

2018

**Supco**<sup>®</sup>  
THE RIGHT CHOICE



FULL LINE HVACR PRODUCT CATALOG  
VOLUME 1 | EDITION 1

A PASSION FOR INNOVATION.  
A DEDICATION TO SERVICE.

[SUPCO.COM](http://SUPCO.COM)

# WHAT MAKES SUPCO THE RIGHT CHOICE FOR YOUR HVACR NEEDS?

THE RIGHT PARTS.

Back in the 1950s, when we innovated the patented “Bullet” valve for refrigeration repair, we never imagined that we’d offer over 2,500 SKUS for the HVACR market. Through innovation, expansion and strategic acquisitions, our product offering is a testament to our commitment to stay aware of the changes that will dictate the future of our industry and best meet the needs of our customers.

THE RIGHT PEOPLE.

As much as we’ve grown, we’ve kept true to our heritage as a family business to deliver outstanding, personal service and foster a culture dedicated to excellent responsiveness, fulfillment and product support.

THE RIGHT VISION.

Manufacturing and sourcing high-quality parts, innovative tools and new technologies at value-driven prices is our mission. But, we’re not stopping there. We’re listening to your needs and acting. Our vision is to continue to expand our HVACR offering to provide comprehensive one-stop solutions and delight our customers with the best experience at each touchpoint.

YOU HAVE MANY CHOICES.  
LET US SHOW YOU WHY  
SUPCO IS THE RIGHT ONE.



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References to original equipment manufacturers' names, models, trademarks and part numbers are used for identification purposes only and SUPCO® replacement products are not in any way affiliated, endorsed or sponsored by such original equipment manufacturers.



THE RIGHT CHOICE

# PRODUCT LINE CARD

## SUPCO® DIVISIONS



A trusted brand in AC and Refrigeration for over 75-years, and known as the "OEMs' Choice", A-1® is now owned by SUPCO® and offers the most complete line of access fittings and service valves at an exceptional value.



SUPCO® is the only industry manufacturer that offers the complete line of CAMSTAT® fan and limit controls for exact OEM heating control component replacements.



Climate Technology Corporation® (CTC) has been manufacturing thermostats for over twenty years. Acquired by SUPCO® in 2010, CTC thermostats are specifically designed with the HVACR contractors' needs in mind and focus on reliability, quality and value.

## EXCLUSIVE SUPCO® BRANDS



With complete viewing through both sides, our Allin Liquid Eye® sight glasses and moisture indicators provide the clearest view of refrigerant in a system.

### BULLET® PIERCING VALVE

The ONLY piercing valve with a permanent type, gasket application that provides up to 50 times more sealing area than competitive O-ring types.

### Data View®

Data loggers that monitor real-time measurements for current, voltage, watts, temperature or humidity. Monitor real time measurements for instant environmental or electrical conditions. When you're ready, download to your computer for further analysis.



Trusted technology since 1976, our Linebacker® Surge Protectors and Motorizers are made in the USA and built tough to protect equipment.



The LOGiT Series Data Loggers are designed with the latest technology and will accommodate technological advances for years to come. They are economic, compact and easy to use.



As part of our Tech's Toolkit line of accessories, this innovative line of troubleshooting and diagnostic tools help make servicing and installation jobs easier.



Under the SUPCO® brand, we manufacture HVACR and Refrigeration components, Test Instruments, Tools and Appliance parts. We operate and develop in proprietary state-of-the art facilities and maintain oversight and control of the quality of the processes and components that go into our parts.



As pioneers of "the original" two-wire hard start, our line of Superboost® Hard Starts use OEM and NATE recognized technologies to maximize performance. Manufactured in proprietary facilities our Superboost® hard starts use only original components, never imitations.

## AUTHORIZED MASTER DISTRIBUTOR



Realizing a need to make technicians' lives easier when removing rusted or corroded bearings, the Bearing Buster was invented to generate maximum power with minimal effort - painlessly.



With a patent pending design, the Cirrus™ Wind Indicator is an essential tool for every technician's kit given that it can detect the slightest winds and thermals, can be recharged using a USB, and has over 1,000 puffs per cartridge.



Cleveland Controls has more than 60 years of experience in a broad range of products that measure and control air flow for commercial, industrial and residential HVACR applications. Cleveland's Air Pressure Switch kits are reliable and economical solutions.



CoverGrip™ is the ingenious new drop cloth that provides protection not just to surfaces, but also for the people who work and live in them by using rubberized PVC dots that snugly grip to floors and stairs.



The Waterless Trap from DesChamps Technologies allows liquid condensate to drain from HVACR equipment and simultaneously prevents air from entering or escaping the equipment.



This patented flue cap is designed to improve air flow and eliminate excessive moisture and debris that can rust or damage high efficiency gas furnaces, tankless hot water heaters, plumbing or other PVC vented installations.



The Express Torch is self-lighting and ergonomic. With an integrated igniter and several tips to choose from, Express Torch kits offer power, precision and superior results.



Since 1985, Full Gauge® has produced a wide range of digital instruments for industrial and commercial refrigeration. All Full Gauge® temperature controllers and data loggers are designed with enhanced energy saving and safety features.



For over 75-years, Highside Chemicals has manufactured the highest quality chemical products for the maintenance, installation and repair of refrigeration, air conditioning and plumbing systems. SUPCO is proud to be their exclusive Master Distributor.



As a leader in the packaging industry, IPG® leverages its advanced manufacturing and technologies to create high strength, premium quality specialty tapes for a wide variety of HVACR applications.



Ductless mini-split air conditioners and heat pumps are more efficient alternatives to window or wall air conditioning units. With a variety of models available, SeaBreeze mini-splits are built to be service-friendly and economical.



For anyone who needs to move big, bulky items such as appliances or equipment, the ShoulderDolly® and ProLift® harnesses use leverage to allow two people to maintain an ergonomic, upright posture while moving any object.



Siccom® manufactures quiet and strong Condensate Pumps with compact sizes and outstanding quality-to-price ratios. SUPCO is the Exclusive North American Master Distributor for Siccom®.



Founded in 1984, System Sensor® is a global manufacturer of fire safety devices. Their duct smoke detectors combine an impressive collection of innovations to greatly simplify HVAC system monitoring and accommodate a variety of installation footprints.



Since 1947, Therm-O-Disc® has been a global leader in the design, innovation and manufacturing of temperature and sensor controls. Our offering of Therm-O-Disc® sequencers and thermostats cover unique configurations and many applications.



Universal UV Solutions™ designs and manufactures durable, reliable and cost effective UV products for commercial and residential applications. ClearBlue® Arctic UV Ice Machine lamps and ClearBlue® UV Light Systems help reduce mold, bacteria and viruses.

**ULTRA START SERIES - 2-WIRE MECHANICAL POTENTIAL RELAY HARD START**



- OEM Approved Technology
- Voltage Sensing
- Instant Re-Start
- Easy 2-wire Installation
- 208-277 VAC
- 330 VAC Start Capacitor
- 2 Year Warranty

Part No.	Application	Capacitor Size	Replaces Kickstart®
SPR5	1 - 3 hp	189-227 µF	TO-5
SPR1	3.5 - 5hp	270-324 µF	KS-1

**ULTRA SERIES - 2-WIRE MECHANICAL POTENTIAL RELAY HARD START**



- OEM Approved Technology
- Voltage Sensing
- Instant Re-Start
- Easy 2-wire Installation
- 208-277 VAC
- 330 VAC Start Capacitor
- 2 Year Warranty

Part No.	Application	Capacitor Size	Replaces Kickstart®
MPR5	1 - 3 hp	189-227 µF	TO-5
MPR1	3.5 - 5hp	270-324 µF	KS-1

**3-SERIES - 3-WIRE MECHANICAL POTENTIAL RELAY HARD START**



- Voltage Sensing
- Instant Re-Start
- 35 Amp Relay Contacts
- 208-277 VAC
- 330 VAC Start Capacitor
- Includes EZ Snap Bracket for Quick Installation

Part No.	Application	Capacitor Size	Replaces 5-2-1®
3W1	1 - 3 hp	88 - 108 µF	CSRU1
3W2	3.5 - 4.5 hp	189 - 227 µF	CSRU2
3W3	4 - 5 hp	270 - 324 µF	CSRU3

**SPP E CLASS SERIES - ELECTRONIC POTENTIAL RELAY TECHNOLOGY**



- Backup Electronic Timing Circuit to Protect the Compressor
- Voltage Sensing
- Instant Re-Start
- Easy 2-wire Installation
- Can be used on PSC and CSIR Type Compressors
- 170-277 VAC (except SPP4E, 90-130 VAC)

Part No.	Application	Capacitor Size
SPP4E	1/8-1 hp	88-106 µF
SPP5E	1/3-2 hp	43-52 µF
SPP6E	1/2 - 3 hp	88-106 µF
SPP7E	1 - 4 hp	130-156 µF
SPP8E	1 hp and up	189-227 µF
SPP9E	1 hp and up	233-280 µF
SPP10E	3 hp and up	270-324 µF

**SPP SUPER BOOST SERIES - PTC TECHNOLOGY**



- Positive Temperature Coefficient Relay Technology (PTC)
- Field Proven Reliability
- Easy 2-wire Installation
- Most Economic
- 90-277 VAC

PART NO.	INCREASE IN TORQUE
SPP	250%
SPP5	300%
SPP6	500%
SPP7S	600%





- Type II Construction
- Non- PCB Biodegradable Synthetic Oil
- Physical Interrupter for Safety
- Drawn Steel Construction
- Quad Blade Quick Connect to Terminals
- Tolerance: +/- 5%
- Operating Temperature: -13°F to 185°F (-25°C to 85°C)

- Meets EIA 456 Standard
- Meets IEC 252 Standard
- Life Tested to 120% of Rated Voltage at 85°C for 1,000 Continuous Hours
- Cycle Tested at 140% of Rated Voltage at 85°C for 100,000 Cycles
- UL® Recognized
- CSA® Certified
- VDE® Approved

MOTOR RUN CAPACITORS



DUAL OVAL CAPACITOR

Part No.	Voltage	Depth	Height	Width
CD10+5X440	10+5 uF x 440V	1 3/4	2 13/16	2 5/8
CD15+10X370	15+10 uF x 370V	1 3/4	2 13/16	2 3/4
CD15+10X440	15+10 uF x 440V	1 3/4	2 13/16	3 1/8
CD15+3X370	15+3 uF x 370V	1 3/4	2 13/16	2 5/8
CD15+4X370	15+4 uF x 370V	1 3/4	2 13/16	2 5/8
CD15+4X440	15+4 uF x 440V	1 3/4	2 13/16	2 5/8
CD15+5X370	15+5 uF x 370V	1 3/4	2 13/16	2 5/8
CD15+5X440	15+5 uF x 440V	1 3/4	2 13/16	3 3/8
CD17.5+4X370	17.5+4 uF x 370V	1 3/4	2 13/16	2 3/4
CD17.5+5X370	17.5+5 uF x 370V	1 3/4	2 13/16	2 3/4
CD20+10X370	20+10 uF x 370V	1 3/4	2 13/16	2 3/4
CD20+15X370	20+15 uF x 370V	1 3/4	2 13/16	2 3/4
CD20+15X440	20+15 uF x 440V	1 3/4	2 13/16	3 5/8
CD20+3X370	20+3 uF x 370V	1 3/4	2 13/16	3 1/8
CD20+4X370	20+4 uF x 370V	1 3/4	2 13/16	3 1/8
CD20+5X370	20+5 uF x 370V	1 3/4	2 13/16	3 1/8
CD20+5X440	20+5 uF x 440V	1 3/4	2 13/16	3 1/8
CD25+10X370	25+10 uF x 370V	1 3/4	2 13/16	3 1/8
CD25+10X440	25+10 uF x 440V	1 3/4	2 13/16	3 5/8
CD25+15X370	25+15 uF x 370V	1 3/4	2 13/16	3 5/8
CD25+15X440	25+15 uF x 440V	1 3/4	2 13/16	3 5/8
CD25+3X370	25+3 uF x 370V	1 3/4	2 13/16	3 1/8
CD25+4X370	25+4 uF x 370V	1 3/4	2 13/16	3 1/8
CD25+5X370	25+5 uF x 370V	1 3/4	2 13/16	3 1/8
CD25+5X440	25+5 uF x 440V	1 3/4	2 13/16	3 5/8
CD25+7.5X370	25+7.5 uF x 370V	1 3/4	2 13/16	3 1/8
CD25+7.5X440	25+7.5 uF x 440V	1 3/4	2 13/16	3 5/8
CD25+8X370	25+8 uF x 370V	1 3/4	2 13/16	3 1/8
CD27+5.5X370	27+5.5 uF x 370V	1 3/4	2 13/16	3 1/8
CD30+10X370	30+10 uF x 370V	1 3/4	2 13/16	3 1/8
CD30+10X440	30+10 uF x 440V	1 3/4	2 13/16	3 5/8
CD30+3X370	30+3 uF x 370V	1 3/4	2 13/16	3 5/8
CD30+4X370	30+4 uF x 370V	1 3/4	2 13/16	3 5/8
CD30+4X440	30+4 uF x 440V	1 3/4	2 13/16	3 5/8

Part No.	Voltage	Depth	Height	Width
CD30+5X370	30+5 uF x 370V	1 3/4	2 13/16	3 5/8
CD30+5X440	30+5 uF x 440V	1 3/4	2 13/16	3 5/8
CD30+7.5X370	30+7.5 uF x 370V	1 3/4	2 13/16	3 5/8
CD30+7.5X440	30+7.5 uF x 440V	1 3/4	2 13/16	3 5/8
CD35+10X370	35+10 uF x 370V	1 3/4	2 13/16	3 3/4
CD35+10X440	35+10 uF x 440V	1 3/4	2 13/16	4 1/2
CD35+3X370	35+3 uF x 370V	1 3/4	2 13/16	3 3/4
CD35+3X440	35+3 uF x 440V	1 3/4	2 13/16	4 1/8
CD35+4X370	35+4 uF x 370V	1 3/4	2 13/16	3 3/4
CD35+4X440	35+4 uF x 440V	1 3/4	2 13/16	4 1/8
CD35+5X370	35+5 uF x 370V	1 3/4	2 13/16	3 3/4
CD35+5X440	35+5 uF x 440V	1 3/4	2 13/16	4 1/8
CD35+7.5X370	35+7.5 uF x 370V	1 3/4	2 13/16	4 1/8
CD35+7.5X440	35+7.5 uF x 440V	1 3/4	2 13/16	4 1/8
CD35+8.5X440	35+8.5 uF x 440V	1 3/4	2 13/16	4 1/2
CD40+10X370	40+10 uF x 370V	1 3/4	2 13/16	4 1/2
CD40+10X440	40+10 uF x 440V	1 3/4	2 13/16	4 1/2
CD40+3X370	40+3 uF x 370V	1 3/4	2 13/16	4 1/8
CD40+3X440	40+3 uF x 440V	1 3/4	2 13/16	4 1/2
CD40+4X370	40+4 uF x 370V	1 3/4	2 13/16	4 1/8
CD40+5X370	40+5 uF x 370V	1 3/4	2 13/16	4 1/8
CD40+5X440	40+5 uF x 440V	1 3/4	2 13/16	4 1/2
CD40+7.5X370	40+7.5 uF x 370V	1 3/4	2 13/16	4 1/8
CD40+7.5X440	40+7.5 uF x 440V	1 3/4	2 13/16	4 1/2
CD45+10X370	45+10 uF x 370V	1 3/4	2 13/16	4 1/2
CD45+15X370	45+15 uF x 370V	1 3/4	2 13/16	4 15/16
CD45+3X370	45+3 uF x 370V	1 3/4	2 13/16	4 1/8
CD45+5X370	45+5 uF x 370V	1 3/4	2 13/16	4 1/2
CD45+5X440	45+5 uF x 440V	1 3/4	2 13/16	4 1/2

CR10 CAP RACK



- The CR10 Cap Rack solves the problem for technicians to easily carry their capacitors. Made from heavy-duty foam, with a carrying strap, the Cap Rack has 10 slots for capacitors of different sizes.

## DUAL OVAL CAPACITOR

Part No.	Voltage	Depth	Height	Width
CD45+7.5X370	45+7.5 uF x 370V	1 3/4	2 13/16	4 1/2
CD45+7.5X440	45+7.5 uF x 440V	1 3/4	2 13/16	4 15/16
CD50+5X370	50+5 uF x 370V	1 3/4	2 13/16	4 15/16
CD50+5X440	50+5 uF x 440V	1 3/4	2 13/16	5 1/8
CD50+7.5X370	50+7.5 uF x 370V	1 3/4	2 13/16	4 15/16
CD50+7.5X440	50+7.5 uF x 440V	1 3/4	2 13/16	5 1/8
CD50+10X370	50+10 uF x 370V	1 3/4	3 5/8	4 1/8
CD55+10X440	55+10 uF x 440V	1 7/8	3 5/8	4 1/8
CD55+5X370	55+5 uF x 370V	1 3/4	2 13/16	5 1/8
CD55+5X440	55+5 uF x 440V	1 3/4	2 13/16	5 1/8
CD55+7.5X370	55+7.5 uF x 370V	1 3/4	2 13/16	5 1/8
CD55+10X370	55+10 uF x 370V	1 7/8	3 5/8	4 1/8
CD60+10X370	60+10 uF x 370V	1 7/8	3 5/8	4 1/8
CD60+5X370	60+5 uF x 370V	1 3/4	2 13/16	5 1/8
CD60+5X440	60+5 uF x 440V	1 7/8	3 5/8	4 1/8
CD60+7.5X370	60+7.5 uF x 370V	1 7/8	3 5/8	4 1/8
CD60+7.5X440	60+7.5 uF x 440V	1 7/8	3 5/8	4 1/8
CD65+10X440	65+10 uF x 440V	1 7/8	3 5/8	4 1/2
CD65+5X370	65+5 uF x 370V	1 7/8	3 5/8	4 1/8
CD65+7.5X440	65+7.5 uF x 440V	1 7/8	3 5/8	4 1/8
CD80+5X370	80+5 uF x 370V	1 7/8	3 5/8	4 1/2
CD80+10X440	80+10 uF x 440V	1 7/8	3 5/8	5 1/8
CD80+5X440	80+5 uF x 440V	1 7/8	3 5/8	4 1/2
CD80+7.5X370	80+7.5 uF x 370V	1 7/8	3 5/8	4 1/2
CD80+7.5X440	80+7.5 uF x 440V	1 7/8	3 5/8	5 1/8

## DUAL ROUND CAPACITOR

Part No.	Voltage	Depth	Height
CD10+10X370R	10+10 uF x 370V	2	2 5/8
CD10+5X440R	10+5 uF x 440V	2	2 5/8
CD15+10X370R	15+5 uF x 370V	2	3
CD15+3X370R	15+3 uF x 370V	2	2 5/8
CD15+4X370R	15+4 uF x 370V	2	2 5/8
CD15+5X370R	15+5 uF x 370V	2	2 5/8
CD15+5X440R	15+5 uF x 440V	2	3
CD17.5+4X370R	17.5+4 uF x 370V	2	3
CD17.5+5X370R	17.5+5 uF x 370V	2	3
CD20+10X370R	20+10 uF x 370V	2	3 3/8
CD20+15X370R	20+15 uF x 370V	2	3 3/4
CD20+15X440R	20+15 uF x 440V	2	3 3/4
CD20+4X370R	20+4 uF x 370V	2	3
CD20+5X370R	20+5 uF x 370V	2	3
CD20+5X440R	20+5 uF x 440V	2	3 3/8
CD20+7.5X370R	20+7.5 uF x 370V	2	3 3/8
CD25+10X370R	25+10 uF x 370V	2	3 3/4
CD25+10X440R	25+10 uF x 440V	2	3 3/4
CD25+15X440R	25+15 uF x 440V	2	4 1/8
CD25+3X370R	25+3 uF x 370V	2	3 3/8

## DUAL ROUND CAPACITOR

Part No.	Voltage	Depth	Height
CD25+4X370R	25+4 uF x 370V	2	3 3/8
CD25+5X370R	25+5 uF x 370V	2	3 3/8
CD25+5X440R	25+5 uF x 440V	2	3 3/4
CD25+7.5X370R	25+7.5 uF x 370V	2	3 3/8
CD25+7.5X440R	25+7.5 uF x 440V	2	3 3/4
CD30+10X370R	30+10 uF x 370V	2	3 3/4
CD30+15X370R	30+15 uF x 370V	2	4 1/8
CD30+3X370R	30+3 uF x 370V	2	3 3/8
CD30+3X440R	30+3 uF x 440V	2	3 3/4
CD30+4X370R	30+4 uF x 370V	2	3 3/8
CD30+4X440R	30+4 uF x 440V	2	3 3/4
CD30+5X370R	30+5 uF x 370V	2	3 3/4
CD30+5X440R	30+5 uF x 440V	2	3 3/4
CD30+7.5X370R	30+7.5 uF x 370V	2	3 3/4
CD30+7.5X440R	30+7.5 uF x 440V	2	3 3/4
CD35+10X370R	35+10 uF x 370V	2	4 1/8
CD35+10X440R	35+10 uF x 440V	2	4 1/8
CD35+3X370R	35+3 uF x 370V	2	3 3/4
CD35+3X440R	35+3 uF x 440V	2	3 3/4
CD35+4X370R	35+4 uF x 370V	2	3 3/4
CD35+4X440R	35+4 uF x 440V	2	3 3/4
CD35+5X370R	35+5 uF x 370V	2	3 3/4
CD35+5X440R	35+5 uF x 440V	2	4 1/8
CD35+6X440R	35+6 uF x 440V	2	4 1/8
CD35+7.5X370R	35+7.5 uF x 370V	2	3 3/4
CD35+7.5X440R	35+7.5 uF x 440V	2	4 1/8
CD40+10X370R	40+10 uF x 370V	2	4 1/8
CD40+10X440R	40+10 uF x 440V	2	5 1/2
CD40+3X370R	40+3 uF x 370V	2	4 1/8
CD40+3X440R	40+3 uF x 440V	2	4 1/8
CD40+4X370R	40+4 uF x 370V	2	4 1/8
CD40+4X440R	40+4 uF x 440V	2	5 1/2
CD40+5X370R	40+5 uF x 370V	2	4 1/8
CD40+5X440R	40+5 uF x 440V	2	5 1/2
CD40+6X440R	40+6 uF x 440V	2	5 1/2
CD40+7.5X370R	40+7.5 uF x 370V	2	4 1/8
CD40+7.5X440R	40+7.5 uF x 440V	2	5 1/2
CD45+10X370R	45+10 uF x 370V	2	5 1/2
CD45+10X440R	45+10 uF x 440V	2	5 1/2
CD45+3X370R	45+3 uF x 370V	2	4 1/8
CD45+3X440R	45+3 uF x 440V	2	5 1/2
CD45+4X370R	45+4 uF x 370V	2	4 1/8
CD45+4X440R	45+4 uF x 440V	2	5 1/2
CD45+5X370R	45+5 uF x 370V	2	4 1/8
CD45+5X440R	45+5 uF x 440V	2	5 1/2
CD45+6X440R	45+6 uF x 440V	2	5 1/8
CD45+7.5X370R	45+7.5 uF x 370V	2	4 1/8



## DUAL ROUND CAPACITOR

Part No.	Voltage	Depth	Height
CD45+7.5X440R	45+7.5 uF x 440V	2	5 1/8
CD50+10X370R	50+10 uF x 370V	2	5 1/8
CD50+10X440R	50+10 uF x 440V	2 1/8	5 1/2
CD50+12.5X440R	50+12.5 uF x 440V	2 1/8	5 1/8
CD50+3X370R	50+3 uF x 370V	2	5 1/2
CD50+5X370R	50+5 uF x 370V	2	5 1/2
CD50+5X440R	50+5 uF x 440V	2 1/8	5 1/2
CD50+7.5X370R	50+7.5 uF x 370V	2	5 1/8
CD50+7.5X440R	50+7.5 uF x 440V	2 1/8	5 1/2
CD55+10X370R	55+10 uF x 370V	2	5 1/8
CD55+10X440R	55+10 uF x 440V	2 1/8	5 1/8
CD55+5X370R	55+5 uF x 370V	2	5 1/8
CD55+5X440R	55+5 uF x 440V	2 1/8	5 1/2
CD55+7.5X370R	55+7.5 uF x 370V	2	5 1/8
CD55+7.5X440R	55+7.5 uF x 440V	2 1/8	5 1/8
CD60+10X370R	60+10 uF x 370V	2 1/8	5 1/2
CD60+10X440R	60+10 uF x 440V	2 3/8	5 1/2
CD60+12.5X440R	60+12.5 uF x 440V	2 3/8	5 1/2
CD60+15X440R	60+15 uF x 440V	2 3/8	5 1/8
CD60+3X370R	60+3 uF x 370V	2	5 1/8
CD60+3X440R	60+3 uF x 440V	2 1/8	5 1/8
CD60+5X370R	60+5 uF x 370V	2	5 1/8
CD60+5X440R	60+5 uF x 440V	2 1/8	5 1/8
CD60+7.5X370R	60+7.5 uF x 370V	2 1/8	5 1/2
CD60+7.5X440R	60+7.5 uF x 440V	2 1/8	5 1/8
CD65+10X440R	65+10 uF x 440V	2 3/8	5 1/2
CD65+5X370R	65+5 uF x 370V	2 1/8	5 1/2
CD65+5X440R	65+5 uF x 440V	2 3/8	5 1/2
CD70+10X370R	70+10 uF x 370V	2 1/8	5 1/8
CD70+10X440R	70+10 uF x 440V	2 3/8	5 1/8
CD70+5X370R	70+5 uF x 370V	2 1/8	5 1/8
CD70+5X440R	70+5 uF x 440V	2 3/8	5 1/2
CD70+7.5X370R	70+7.5 uF x 370V	2 1/8	5 1/8
CD70+7.5X440R	70+7.5 uF x 440V	2 3/8	5 1/8
CD75+10X370R	75+10 uF x 370V	2 3/8	5 1/2
CD75+10X440R	75+10 uF x 440V	2 3/8	5 1/8
CD75+5X370R	75+5 uF x 370V	2 1/8	5 1/8

Part No.	Voltage	Depth	Height
CD75+5X440R	75+5 uF x 440V	2 3/8	5 1/8
CD75+7.5X370R	75+7.5 uF x 370V	2 1/8	5 1/8
CD75+7.5X440R	75+7.5 uF x 440V	2 3/8	5 1/8
CD80+10X370R	80+10 uF x 370V	2 3/8	5 1/8
CD80+10X440R	80+10 uF x 440V	2 1/2	5 1/8
CD80+12.5X370R	80+12.5 uF x 370V	2 3/8	5 1/8
CD80+5X370R	80+5 uF x 370V	2 3/8	5 1/2
CD80+5X440R	80+5 uF x 440V	2 3/8	5 1/8
CD80+7.5X370R	80+7.5 uF x 370V	2 3/8	5 1/2
CD80+7.5X440R	80+7.5 uF x 440V	2 3/8	5 1/8
CD85+10X370R	85+10 uF x 370V	2 3/8	5 1/8
CD85+10X440R	85+10 uF x 440V	2 1/2	5 1/8
CD85+5X370R	85+5 uF x 370V	2 3/8	5 1/8
CD85+5X440R	85+5 uF x 440V	2 1/2	5 1/8
CD85+7.5X370R	85+7.5 uF x 370V	2 3/8	5 1/8
CD85+7.5X440R	85+7.5 uF x 440V	2 1/2	5 1/8

## SINGLE OVAL CAPACITOR

Part No.	Voltage	Depth	Height	Width
CR2X370	2 uF x 370V	1 1/4	2	2 1/8
CR2X440	2 uF x 440V	1 1/4	2	2 1/8
CR2.5X440	2.5 uF x 440V	1 1/4	2	2 1/8
CR3X370	3 uF x 370V	1 1/4	2	2 1/8
CR3X440	3 uF x 440V	1 1/4	2	2 1/8
CR4X370	4 uF x 370V	1 1/4	2	2 1/8
CR4X440	4 uF x 440V	1 1/4	2	2 1/8
CR5X370	5 uF x 370V	1 1/4	2	2 1/8
CR5X440	5 uF x 440V	1 1/4	2	2 1/8
CR6X370	6 uF x 370V	1 1/4	2	2 1/8
CR6X440	6 uF x 440V	1 1/4	2	2 1/8
CR7.5X370	7.5 uF x 370V	1 1/4	2	2 1/8
CR7.5X440	7.5 uF x 440V	1 1/4	2	2 1/8
CR10X370	10 uF x 370V	1 1/4	2	2 3/4
CR10X440	10 uF x 440V	1 1/4	2	2 3/4
CR12.5X370	12.5 uF x 370V	1 1/4	2	2 3/4
CR12.5X440	12.5 uF x 440V	1 1/4	2	3 1/8
CR15X370	15 uF x 370V	1 1/4	2	3 1/8
CR15X440	15 uF x 440V	1 1/4	2	3 1/8
CR17.5X370	17.5 uF x 370V	1 3/4	2 13/16	2 5/8
CR17.5X440	17.5 uF x 440V	1 3/4	2 13/16	3 1/8

## CAPACITOR SHELF



- Frees up space inside crowded condensing units
- Rugged, molded plastic construction
- Fits any size capacitor
- Cable ties included
- Dimensions: 3”h x 2.25”w x 1” d

Part No.	Type	Qty/Pack
CSX4	Screw	4
CSWM1	Magnetic	1

## SINGLE OVAL CAPACITOR

Part No.	Voltage	Depth	Height	Width
CR20X370	20 uF x 370V	1 3/4	2 13/16	2 5/8
CR20X440	20 uF x 440V	1 3/4	2 13/16	3 1/8
CR25X370	25 uF x 370V	1 3/4	2 13/16	2 3/4
CR25X440	25 uF x 440V	1 3/4	2 13/16	3 1/8
CR25X480	25 uF x 480V	1 3/4	2 13/16	3 1/8
CR30X370	30 uF x 370V	1 3/4	2 13/16	2 3/4
CR30X440	30 uF x 440V	1 3/4	2 13/16	3 1/8
CR35X370	35 uF x 370V	1 3/4	2 13/16	3 1/8
CR35X440	35 uF x 440V	1 3/4	2 13/16	3 5/8
CR40X370	40 uF x 370V	1 3/4	2 13/16	3 5/8
CR40X440	40 uF x 440V	1 3/4	2 13/16	3 15/16
CR45X370	45 uF x 370V	1 3/4	2 13/16	3 5/8
CR45X440	45 uF x 440V	1 3/4	2 13/16	3 15/16
CR50X370	50 uF x 370V	1 3/4	2 13/16	4 1/8
CR50X440	50 uF x 440V	1 3/4	2 13/16	4 3/8
CR55X370	55 uF x 370V	1 3/4	2 13/16	4 1/2
CR55X440	55 uF x 440V	1 3/4	2	5 1/8
CR60X370	60 uF x 370V	1 3/4	2 13/16	4 1/2
CR60X440	60 uF x 440V	1 3/4	2 13/16	4 15/16
CR65X370	65 uF x 370V	1 3/4	2 13/16	4 15/16
CR65X440	65 uF x 440V	1 7/8	3 5/8	3 15/16
CR70X370	70 uF x 370V	1 3/4	2 13/16	4 15/16
CR70X440	70 uF x 440V	1 7/8	3 5/8	3 15/16
CR75X440	75 uF x 440V	1 7/8	3 5/8	4 3/8
CR80X370	80 uF x 370V	1 7/8	3 5/8	3 15/16
CR80X440	80 uF x 440V	1 7/8	3 5/8	4 3/8
CR100X370	100 uF x 370V	1 7/8	3 5/8	4 15/16



## MINI-SPLIT RUN CAPACITORS

Part No.	Description
RC1X450	MINI-SPLIT RUN CAPACITOR 1 MFD X 450VAC
RC1.5X450	MINI-SPLIT RUN CAPACITOR 1.5 MFD X 450VAC
RC2X450	MINI-SPLIT RUN CAPACITOR 2 MFD X 450VAC
RC2.5X450	MINI-SPLIT RUN CAPACITOR 2.5 MFD X 450VAC
RC3X450	MINI-SPLIT RUN CAPACITOR 3 MFD X 450VAC
RC3.5X450	MINI-SPLIT RUN CAPACITOR 3.5 MFD X 450VAC
RC4X450	MINI-SPLIT RUN CAPACITOR 4 MFD X 450VAC
RC4.5X450	MINI-SPLIT RUN CAPACITOR 4.5 MFD X 450VAC
RC5X450	MINI-SPLIT RUN CAPACITOR 5 MFD X 450VAC
RC6X450	MINI-SPLIT RUN CAPACITOR 6 MFD X 450VAC
RC7.5X450	MINI-SPLIT RUN CAPACITOR 7.5 MFD X 450VAC
RC8X450	MINI-SPLIT RUN CAPACITOR 8 MFD X 450VAC
RC10X450	MINI-SPLIT RUN CAPACITOR 10 MFD X 450VAC
RC12.5X450	MINI-SPLIT RUN CAPACITOR 12.5 MFD X 450VAC
RC15X450	MINI-SPLIT RUN CAPACITOR 15 MFD X 450VAC
RC20X450	MINI-SPLIT RUN CAPACITOR 20 MFD X 450VAC

## SINGLE ROUND CAPACITOR

Part No.	Voltage	Depth	Height
CR2X370R	2 uF x 370V	1 5/8	2 1/8
CR2X440R	2 uF x 440V	1 5/8	2 1/8
CR3X370R	3 uF x 370V	1 5/8	2 1/8
CR3X440R	3 uF x 440V	1 5/8	2 1/8
CR4X370R	4 uF x 370V	1 5/8	2 1/8
CR4X440R	4 uF x 440V	1 5/8	2 1/8
CR5X370R	5 uF x 370V	1 5/8	2 1/8
CR5X440R	5 uF x 440V	1 5/8	2 1/8
CR6X370R	6 uF x 370V	1 5/8	2 1/8
CR6X440R	6 uF x 440V	1 5/8	2 1/8
CR7.5X370R	7.5 uF x 370V	1 5/8	2 1/8
CR7.5X440R	7.5 uF x 440V	1 5/8	2 1/8
CR10X370R	10 uF x 370V	1 5/8	2 5/8
CR10X440R	10 uF x 440V	1 5/8	2 5/8
CR12.5X370R	12.5 uF x 370V	1 5/8	2 5/8
CR12.5X440R	12.5 uF x 440V	1 3/4	2 5/8
CR15X370R	15 uF x 370V	1 3/4	2 5/8
CR15X440R	15 uF x 440V	1 3/4	2 5/8
CR16X370R	16 uF x 370V	1 3/4	2 5/8
CR17.5X370R	17.5 uF x 370V	1 3/4	2 3/4
CR17.5X440R	17.5 uF x 440V	1 3/4	2 3/4
CR20X370R	20 uF x 370V	1 3/4	2 3/4
CR20X440R	20 uF x 440V	1 3/4	3 1/8
CR25X370R	25 uF x 370V	1 3/4	2 3/4
CR25X440R	25 uF x 440V	1 3/4	3 1/8
CR30X370R	30 uF x 370V	1 3/4	3 5/8
CR30X440R	30 uF x 440V	2	3 5/8
CR35X370R	35 uF x 370V	1 3/4	3 5/8
CR35X440R	35 uF x 440V	2	3 5/8
CR40X370R	40 uF x 370V	2	3 5/8
CR40X440R	40 uF x 440V	2	3 15/16
CR45X370R	45 uF x 370V	2	3 5/8
CR45X440R	45 uF x 440V	2	4 5/16
CR50X370R	50 uF x 370V	2	3 15/16
CR50X440R	50 uF x 440V	2	4 5/16
CR55X370R	55 uF x 370V	2 1/8	3 15/16
CR55X440R	55 uF x 440V	2 1/8	4 5/16
CR60X370R	60 uF x 370V	2 1/8	3 15/16
CR60X440R	60 uF x 440V	2 3/8	3 15/16
CR65X370R	65 uF x 370V	2 1/8	4 5/16
CR70X370R	70 uF x 370V	2 3/8	3 15/16
CR70X440R	70 uF x 440V	2 3/8	4 5/16
CR80X370R	80 uF x 370V	2 3/8	4 5/16
CR80X440R	80 uF x 440V	2 3/8	4 15/16
CR90X440R	90 uF x 440V	2 1/2	4 15/16
CR100X370R	100 uF x 370V	2 3/8	4 15/16



- Type II Construction
- Non- PCB Biodegradable Synthetic Oil
- Moisture & Oil Resistant Molded Phenolic Resin or Plastic Case
- Industry Standard Case Sizes
- Standard Dual Blade Terminals

- Operating Temperature: -40°F to 149°F (-40°C to 65°C)
- Meets CSA RS463-B Standard
- Meets IEC 60252-2 Standard
- UL® Recognized
- CSA® Certified
- VDE® Approved

START CAPACITORS



Part No.	Voltage	Dimensions (DIA x H)
CS1000-1200X110	1000-1200 µF X 110-125V	1-13/16 x 3-3/8
CS108-130X110	108-130 µF X 110-125V	1-7/16 x 2-3/4
CS108-130X220	108-130 µF X 220-240V	1-13/16 x 3-3/8
CS108-130X330	108-130 µF X 330V	2-1/16 x 4-3/8
CS124-156X110	124-156 µF X 110-125V	1-7/16 x 2-3/4
CS124-156X165	124-156 µF X 165V	1-7/16 x 2-3/4
CS124-156X220	124-156 µF X 220-240V	1-13/16 x 3-3/8
CS124-156X330	124-156 µF X 330V	2-1/16 x 4-3/8
CS130-156X110	130-156 µF X 110V	1-7/16 x 2-3/4
CS130-156X220	130-156 µF X 220V	1-13/16 x 3-3/8
CS130-156X330	130-156 µF X 330V	1-13/16 x 4-3/8
CS145-175X110	145-175 µF X 110-125V	1-7/16 x 2-3/4
CS145-175X165	145-175 µF X 165V	1-7/16 x 2-3/4
CS145-175X220	145-175 µF X 220-240V	1-13/16 x 4-3/8
CS145-175X330	145-175 µF X 330V	2-9/16 x 4-3/8
CS161-193X110	161-193 µF X 110-125V	1-7/16 x 2-3/4
CS161-193X165	161-193 µF X 165V	1-7/16 x 2-3/4
CS161-193X220	161-193 µF X 220-240V	1-13/16 x 4-3/8
CS161-193X330	161-193 µF X 330V	2-9/16 x 4-3/8
CS189-227X110	189-227 µF X 110-125V	1-7/16 x 2-3/4
CS189-227X220	189-227 µF X 220-240V	2-1/16 x 4-3/8
CS189-227X330	189-227 µF X 330V	2-9/16 x 4-3/8
CS200-240X110	200-240 µF X 110-125V	1-7/16 x 2-3/4
CS21-25X110	21-25 µF X 110-125V	1-7/16 x 2-3/4
CS21-25X220	21-25 µF X 220-240V	1-7/16 x 2-3/4
CS21-25X330	21-25 µF X 330V	1-7/16 x 2-3/4
CS216-227X220	216-227 µF X 220-240V	2-1/16 x 4-3/8
CS216-259X110	216-259 µF X 110-125V	1-7/16 x 3-3/8
CS216-259X220	216-259 µF X 220-240V	2-1/16 x 4-3/8
CS216-259X330	216-259 µF X 330V	2-9/16 x 4-3/8
CS233-280X110	233-288 µF X 110V	1-7/16 x 3-3/8
CS233-280X220	233-288 µF X 220V	2-1/16 x 4-3/8
CS233-292X110	233-292 µF X 110-125V	1-7/16 x 3-3/8
CS233-292X165	233-292 X µF 165V	1-13/16 x 3-3/8
CS233-292X220	233-292 µF X 220-240V	2-1/16 x 4-3/8
CS25-30X110	25-30 µF X 110-125V	1-7/16 x 2-3/4
CS25-30X220	25-30 µF X 220-240V	1-7/16 x 2-3/4
CS25-30X330	25-30 µF X 330V	1-7/16 x 3-3/8
CS270-324X110	270-324 µF X 110-125V	1-7/16 x 3-3/8
CS270-324X165	270-324 µF X 165V	1-13/16 x 3-3/8

Part No.	Voltage	Dimensions (DIA x H)
CS270-324X220	270-324 µF X 220-240V	2-1/16 x 4-3/8
CS270-324X330	270-330 µF X 330V	2-9/16 x 4-3/8
CS280-336X220	280-336 µF X 220V	2-1/16 x 4-3/8
CS300-360X110	300-360 µF X 110-125V	1-13/16 x 3-3/8
CS300-360X330	300-360 µF X 330V	2-9/16 x 4-3/8
CS30-36X110	30-36 µF X 110-125V	1-7/16 x 2-3/4
CS30-36X220	30-36 µF X 220-240V	1-7/16 x 2-3/4
CS30-36X330	30-36 µF X 330V	1-13/16 x 3-3/8
CS320-384X220	320-480 µF X 220V	2-1/16 x 4-3/8
CS324-388X110	324-388 µF X 110-125V	1-13/16 x 3-3/8
CS324-388X330	324-388 µF X 330V	2-9/16 x 4-3/8
CS340-408X110	340-408 µF X 110-125V	1-13/16 x 3-3/8
CS36-43X110	36-43 µF X 110-125V	1-7/16 x 2-3/4
CS36-43X220	36-43 µF X 220-240V	1-7/16 x 2-3/4
CS36-43X330	36-43 µF X 330V	1-7/16 x 3-3/8
CS378-440X110	378-440 µF X 110-125V	1-13/16 x 3-3/8
CS400-480X110	400-480 µF X 110-125V	1-13/16 x 3-3/8
CS400-480X220	400-480 µF X 220V	2-1/16 x 4-3/8
CS430-516X110	430-516 µF X 110V	1-13/16 x 3-3/8
CS43-56X110	43-56 µF X 110-125V	1-7/16 x 2-3/4
CS43-56X220	43-56 µF X 220-240V	1-7/16 x 2-3/4
CS43-56X330	43-56 µF X 330V	1-13/16 x 3-3/8
CS460-552X110	460-552 µF X 110-125V	1-13/16 x 3-3/8
CS53-70X330	53-70 µF X 330V	1-13/16 x 3-3/8
CS540-648X110	540-648 µF X 110-125V	1-13/16 x 3-3/8
CS56-72X110	56-72 µF X 110-125V	1-7/16 x 2-3/4
CS56-72X220	56-72 µF X 220-240V	1-7/16 x 3-3/8
CS56-72X330	56-72 µF X 330V	1-13/16 x 3-3/8
CS590-708X110	590-708 µF X 110-125V	1-13/16 x 3-3/8
CS64-77X110	64-77 µF X 110-125V	1-7/16 x 2-3/4
CS64-77X220	64-77 µF X 220-240V	1-7/16 x 2-3/4
CS64-77X330	64-77 µF X 330V	1-13/16 x 3-3/8
CS708-850X110	708-850 µF X 110-125V	1-13/16 x 3-3/8
CS72-88X110	72-88 µF X 110-125V	1-7/16 x 2-3/4
CS72-88X220	72-88 µF X 220-240V	1-7/16 x 2-3/4
CS72-88X330	72-88 µF X 330V	2-1/16 x 3-3/8
CS829-995X110	829-995 µF X 110-125V	1-13/16 x 3-3/8
CS88-108X110	88-108 µF X 110-125V	1-7/16 x 2-3/4
CS88-108X220	88-108 µF X 220-240V	1-13/16 x 3-3/8
CS88-108X330	88-108 µF X 330V	2-1/16 x 3-3/8

DEFINITE PURPOSE CONTACTORS



- Silver Cadmium Oxide Contacts
- Ranges: 20-90 FLA
- Poles: 1.5, 2 & 3
- Coil Voltages: 24, 120 & 240 VAC
- Terminations: Box Lug
- Temperature Range: -40°F to 150°F (-40°C to 65°C)
- UL® & CSA® Approved

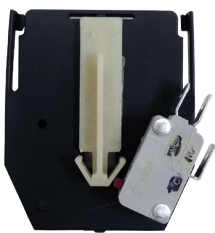
1.5 Pole Part No.	Full Load Amps	Coil Voltage
DP25241	25	24
DP251201	25	120
DP252401	25	240
DP30241	30	24
DP301201	30	120
DP302401	30	240

2 Pole Part No.	Full Load Amps	Coil Voltage
DP20242	20	24
DP201202	20	120
DP202402	20	240
DP25242	25	24
DP251202	25	120
DP252402	25	240
DP30242	30	24
DP301202	30	120
DP302402	30	240
DP40242	40	24
DP401202	40	120
DP402402	40	240

3 Pole Part No.	Full Load Amps	Coil Voltage
DP25243	25	24
DP251203	25	120
DP252403	25	240
DP254803	25	480
DP30243	30	24
DP301203	30	120
DP302403	30	240
DP304803	30	480
DP40243	40	24
DP401203	40	120
DP402403	40	240
DP404803	40	480
DP50243	50	24
DP501203	50	120
DP502403	50	240
DP60243	60	24
DP601203	60	120
DP602403	60	240
DP75243	75	24
DP751203	75	120
DP752403	75	240
DP90243	90	24
DP901203	90	120
DP902403	90	240



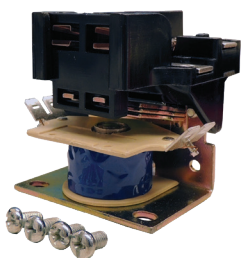
AUXILIARY SWITCH CONTACTORS



Used to add additional load switching capability for other low load accessories that need to be controlled with the start/stop sequence of the equipment

Part No.	Contactor	Current	Switch Action
DPAUX1	25A to 40A	10A at 300VAC	SPDT (1)
DPAUX2	25A to 40A	10A at 300 VAC	SPDT (2)
DPAUX3	25A to 40A	10A at 600VAC	(1)SPNO, (1) SPNC
DPAUX4	25A to 40A	10A at 600VAC	SPNO (2)
DPAUX5	50A to 60A	10A at 300VAC	SPDT (1)
DPAUX6	75A to 90A	10A at 300VAC	SPDT (2)

SMC11 2 POLE MAGNETIC LINE CONTACTOR



- Non-Positional
- Replaces Mars® 18001 (exact) and Honeywell® R850B1146, Packard® C18001
- Includes 4 Terminals and 4 Screws
- UL® File Number E328772

Specifications	
Contacts	DPST
Coil Voltage	24 VAC
Full Load Amps	30 Amps
Locked Rotor Amps	120
Resistive Load Amps	30
Frequency	50/60 Hz



## CONTACTORS' CROSS REFERENCE

SUPCO® Part No.	GE®	API®	Arrow Hart®	Cutler Hammer®	Diversitech®	Elmwood®	Furnas®	GE®	Global Cutler Hammer®	
DP25241	CR453CB3HAA	***	C251NU10	C25CNB125T	***	***	45DG10AJD8A	CR353CB3AH1	***	4140
DP251201	CR453CB3AAA	***	C251NU20	C25CNB125A	***	***	45DG10AFD8A	CR353CB3AA1	***	4141
DP252401	CR453CB3BAA	***	C251NU30	C25CNB125B	***	***	45DG10AGA	CR353CB3AB1	***	4142
DP30241	CR453CC3HAA	***	C301NU10	C25CNB130T	***	***	45EG10AJA	CR353CD3AH1	***	4143
DP301201	CR453CC3AAA	***	C301NU20	C25CNB130A	***	***	45EG10AJA	CR353CD3AA1	***	4144
DP302401	CR453CC3BAA	***	C301NU30	C25CNB130B	***	***	45EG10AGA	CR353CD3AB1	***	4145
DP20242	CR453CA2HAA	***	C202U10	C25BNB220T	***	30BO20	45CG20AJ	CR353CA2AH1	***	4101
DP201202	CR453CA2AAA	***	C202U20	C25BNB220A	***	30BO-20	45CG20AF	CR353CA2AA1	***	4102
DP202402	CR453CA2BAA	***	C202U30	C25BNB220B	***	***	45CG20AG	Same	***	4103
DP25242	CR453CB2HAA	***	C252U10	C25BNB225T	DP25224	30CO-20	45DG20AJ	CR353CB2AH1	***	4104
DP251202	CR453CB2AAA	***	C252U20	C25BNB225A	DP252120	30CO-20	45DG20AF	CR353CB2AA1	***	4105
DP252402	CR453CB2BAA	***	C252U30	C25BNB225B	DP252240	30CO-20	45DG20AG	CR353CB2AB1	***	4106
DP30242	CR453CC2HAA	SA253024V	C302U10	C25BNB230T	DP30224	30EO-20	45EG20AJ	CR353AC2AH1	***	4107
DP301202	CR453CC2AAA	SA2530120V	C302U20	C25BNB230A	DP302120	30EO-20	45EG20AF	CR353AC2AA1	***	4108
DP302402	CR453CC2BAA	SA2530240V	C302U30	C25BNB230B	DP302240	30EO-20	45EG20AG	CR353AC2AB1	***	4109
DP40242	CR453CE2HBB	SA2M4024V	ACC420U10	C25DNF240T	DP40224	30FO-20	45GG20AJ	CR353AD2BH1	***	4161
DP401202	CR453CE2ABB	SA2M40120V	ACC420U20	C25DNF240A	DP402120	30FO-20	45GG20AF	CR353AD2BA1	***	4162
DP402402	CR453CE2BBB	SA2M4024V	ACC420U30	C25DNF240B	DP402240	30FO-20	45GG20AG	CR353AD2BB1	***	4163
DP25243	CR453AB3HAA	***	ACC220U10	C25DND325T	***	30DO-30	42AF35AJ	CR353AB3AH1	DP2530	4110
DP251203	CR453AB3AAA	***	ACC220U20	C25DND325A	***	30DO-30	42AF35AF	CR353AB3AA1	DP2531	4111
DP252403	CR453AB3BAA	***	ACC220U30	C25DND325B	***	30DO-30	42AF35AG	CR353AB3AB1	DP2532	4112
DP30243	CR453AC3HAA	SA353024V	ACC330U10	C25DND330T	DP30324	30EO-30	42BF35AJ	CR353AC3AH1	DP3030	4113
DP301203	CR453AC3AAA	SA3530120V	ACC330U20	C25DND330A	DP303120	30EO-30	42BF35AF	CR353AC3AA1	DP3031	4114
DP302403	CR453AC3BAA	SA3530240V	ACC330U30	C25DND330B	DP303240	30EO-30	42BF35AG	CR353AC3AB1	DP3032	4115
DP40243	CR453AD3HBB	SA3M4024V	ACC430U10	C25DNF340T	DP40324	30FO-30	42CF35AJ	CR353AD3BH1	DP4030	4116
DP401203	CR453AD3ABB	SA3M40120V	ACC430U20	C25DNF340A	DP403120	30FO-30	42CF35AF	CR353AD3BA1	DP4031	4117
DP402403	CR453AD3BBB	SA3M40240V	ACC430U30	C25DNF340B	DP403240	30FO-30	42CF35AG	CR353AD3BB1	DP4032	4118
DP50243	CR353FE3BH1	SA3G5024V	ACC530U10	C25FNF350T	DP50324	30GO-30	42DF35AJ	CR353FE3BH1	DP5030	4128
DP501203	CR353FE3BA1	SA3G50120V	ACC530U20	C25FNF350A	DP503120	30GO-30	42DF35AF	CR353FE3BA1	DP5031	4129
DP502403	CR353FE3BB1	SA3G50240V	ACC530U30	C25FNF350B	DP503240	30GO-30	42DF35AG	CR353FE3BB1	DP5032	4130
DP60243	CR353FF3BH1	SA3A6024V	ACC530U10	C25FNF360T	DP60324	30HO-30	42EF35AJ	CR353FF3BH1	DP6030	4131
DP601203	CR353FF3BA1	SA3A60120V	ACC530U20	C25FNF360A	DP603120	30HO-30	42EF35AF	CR353FF3BA1	DP6031	4132
DP602403	CR353FF3BB1	SA3A60240V	ACC530U30	C25FNF360B	DP603240	30HO-30	42EF35AG	CR353FF3BB1	DP6032	4133
DP75243	CR353EG3BH1	***	ACC730U10	C25FNF375T	DP75324	***	42FE35AJ	CR353EG3BH1	***	4134
DP751203	CR353EG3BA1	***	ACC730U20	C25FNF375A	DP753120	***	42FE35AF	CR353EG3BA1	DP7531	4135
DP752403	CR353EG3BB1	***	ACC730U30	C25FNF375B	DP753240	***	42FE35AG	CR353EG3BB1	DP7532	4136
DP90243	CR353EH3BH1	***	***	C25GNF390T	DP90324	***	42GE35AJ	CR353EH3BH1	***	4137
DP901203	CR353EH3BA1	***	ACC930U20	C25GNF390A	DP903120	***	42GE35AF	CR353EH3BA1	DP9031	4138
DP902403	CR353EH3BB1	***	ACC930U30	C25GNF390B	DP903240	***	42GE35AG	CR353EH3BB1	DP9032	4139

References to original equipment manufacturers' names, models, trademarks and part numbers are used for identification purposes only and SUPCO® replacement products are not in any way affiliated, endorsed or sponsored by such original equipment manufacturers.

## CONTACTORS' CROSS REFERENCE

SUPCO® Part No.	Honeywell®	Honeywell®	Joslyn Clark®	Ma Line Power Pro®	Mars Economy®	Packard®/ Fasco®	Products Unlimited®	RBM® / Essex®	Square D®	STEVECO®
DP25241	DP1025A5005	***	A77306654A3	***	***	1S25A	310015Q01XXXA	***	8910DP21	94385
DP251201	DP1025B5046	***	A77306654A1	***	***	1S25B	310015T01XXXA	***	***	94386
DP252401	DP1025C5045	***	A77306654A2	***	***	1S25C	310015U01XXXA	***	***	94387
DP30241	DP1030A5013	***	A77306653A3	***	13067/13101	1S30A	310015Q02XXXA	***	8910DP12	94388
DP301201	DP1030B5020	***	A77306653A1	***	13068	1S30B	310015T02XXXA	***	***	94389
DP302401	DP1030C5029	***	A7730665312	***	13069	1S30C	310015U02XXXA	***	***	94390
DP20242	DP2020A5021	***	A77306680A3	***	13071	2S20A	310020Q03XXXA	143-1	DP12V14	90234
DP201202	DP2020B5038	***	A77306680A1	***	13072	2S20B	310020T03XXXA	143-1	DP12VO2	90235
DP202402	DP2020C5037	***	A77306680A2	***	13073	2S20C	310020U03XXXA	***	***	90236
DP25242	***	***	A77306660A3	***	13077	***	***	143-6	DP22V14	***
DP251202	***	***	A77306660A1	***	13078	***	***	143-6	DP22VO2	***
DP252402	***	***	A77306660A2	***	13079	***	***	143-6	DP22VO9	***
DP30242	DP2030A5004	DP2030A1003	A77306657A3	8910DP32V14	14321/13104	C2S30A	310020Q06XXXA	143-7	DP32V14	90244
DP301202	DP2030B5003	DP2030B1002	A77306657A1	***	14322	C2S30B	310020T06XXXA	143-7	DP32VO2	90245
DP302402	DP2030C5002	DP2030C1001	A77306657A2	***	14323	C2S30C	310020U06XXXA	143-7	DP32VO9	90246
DP40242	DP2040A5003	***	A77309045A3	8910DP42V14	14421	C2S40A	310020Q18XXXA	154-4	DPA42V14	***
DP401202	DP2040B5002	***	A77309045A1	***	14422	C2S40B	310020T18XXXA	154-4	DPA42VO2	***
DP402402	DP2040C5001	***	A77309045A2	***	14423	C2S40C	310020U18XXXA	154-4	DPA42VO9	***
DP25243	DP3025A5003	DP3025A1002	A77309040A3	***	13001	3M25A	310030Q8XXXAH	154-2	8910DPA23	90160
DP251203	DP3025B5002	DP3025B1001	A77309040A1	***	13002	3M25B	310030T8XXXAH	154-2	DPA23VO2	90161
DP252403	DP3025C5001	DP3025C1000	A77309040A2	***	13003	3M25C	310030U8XXXAH	154-2	DPA23VO9	90162
DP30243	DP3030A5003	DP3030A1002	A77309044A3	8910DPA33V14	14331/13007	C3M30A	310030Q9XXXAH	154-3	DPA33V14	90163
DP301203	DP3030B5002	DP3030B1001	A77309044A1	8910DPA33V02	13008	C3M30B	310030T9XXXAH	154-3	DPA33V02	90164
DP302403	DP3030B5001	DP3030C1000	A77309044A2	8910DPA33V09	13009	C3M30C	310030U9XXXAH	154-3	DPA33VO9	90165
DP40243	DP3040A5002	DP3040A1001	A77309046A3	8910DPA43V14	14431/13013	C3M40A	310030Q10XXXAH	154-4	DPA43V14	90170
DP401203	DP3040B5001	DP3040B1000	A77309046A1	8910DPA43V02	13014	C3M40B	310030T10XXXAH	154-4	DPA43VO2	90171
DP402403	DP3040C5000	DP3040C1009	A77309046A2	8910DPA43V09	14433/13015	C3M40C	310030U10XXXAH	154-4	DPA43VO9	90172
DP50243	DP3050A5001	DP3050A1000	A77288514A3	8910DPA53V14	13200	C3L50A	310030Q16XXXCG	***	8910MO3	92459
DP501203	DP3050B5000	DP3050B1009	A77288514A1	8910DPA53V02	13201	C3L50B	310030T16XXXCG	***	8910MO3	92460
DP502403	DP3050C5009	DP3050C1008	A77288514A2	8910DPA53V09	13202	C3L50C	310030U16XXXCG	***	8910MO3	92461
DP60243	DP3060A5000	DP3060A1009	A77288517A3	8910DPA63V14	13220	C3L60A	310030Q17XXXCG	***	8910NO3	92463
DP601203	DP3060B5009	DP3060B1008	A77288517A1	8910DPA63V02	13221	C3L60B	310030T17XXXCG	***	8910NO3	92464
DP602403	DP3060C5008	DP3060C1007	A77288517A2	8910DPA63V09	13222	C3L60C	310030U17XXXCG	***	8910NO3	92465
DP75243	DP3075A5008	DP3075A1007	A77288520A3	***	13240	C3L75A	3100Y30Q75XXXCG	***	***	92467
DP751203	DP3075B5007	DP3075B1006	A77288520A1	***	13241	C3L75B	3100Y30T75XXXCG	***	8910PO3	92468
DP752403	DP3075C5006	DP3075C1005	A77288520A2	***	13242	C3L75C	3100Y30U75XXXCG	***	***	92469
DP90243	***	DP3090A1006	***	***	13260	C3L90A	3100Y30Q90XXXCG	***	***	***
DP901203	***	DP3090B1005	***	***	13261	C3L90B	3100Y30T90XXXCG	***	8910Q03	***
DP902403	***	DP3090C1004	***	***	13262	C3L90C	3100Y30U90XXXCG	***	***	***



**LBK10 LINEBACKER® SURGE PROTECTOR**



The LBK10 uses state-of-the-art TP-MOV technology coupled with the ability to remove your equipment from damaging surges, the LBK10 provides the ultimate solution for you surge protection needs

- TPMOV Technology
- NO/NC relay to disconnect equipment and/or activate indicator
- Easy installation at condensing unit
- Green LED indicates surge protection status
- Voltage Monitoring
- Ground Monitoring
- Weatherproof housing
- 3 Year product warranty
- 3 Year Connected equipment guarantee
- UL® Listed 1449, 4th edition
- Type 2 Surge Protection Device

**APP120 ALL PURPOSE PROTECTOR**



- Helps Prevent Blown Fuses
- Short Cycle Protection
- Prevents Operation in Low Voltage Conditions
- Prevents False Starting Attempts
- Easy Installation
- LED to Indicate Proper Operation
- Automatic Restarts

**Specifications**

Minimum Starting Volts	90 VAC single phase
Operating Volts	115 VAC single phase
Maximum Switching	1.0 HP @ 115 VAC (12,000 BTU)

**General Specifications**

Time Delay	4 minutes (+ 1 minute)
Power consumption	10 mA
Operating Temperature	14°F to 158°F (-10°C to 70°C)
Size	9.055" X 4.72" X 3.15" (230mm X 120mm X 80mm)

**SUPCO HAS YOU COVERED WITH**

**LINEBACKER®**  
Protects your equipment since 1976

**LBK10**

**LBK500 (page 53)**

**SPP8E  
(Page 6)**

**THE COMPLETE PROTECTION PACKAGE**

APR5 ADJUSTABLE POTENTIAL RELAY

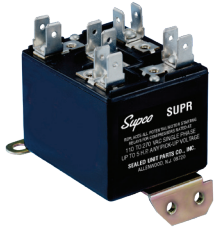


- Voltage Sensitive Relay
- Adjustable Pick-up Voltage
- Safety Time Out 1.0-1.5 Seconds
- Universal Mounting Bracket

APR5 & SUPR Specifications

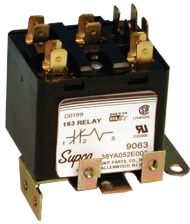
Operating Voltage	110 – 270 VAC, Single Phase
Amperage	30 Amps
Motor Power Rating	up to 5 hp
Operating Position	Non-positional mounting
Terminals	Screw or push-on
Dimensions	1.75W x 2.25L x 1.50In

SUPR UNIVERSAL POTENTIAL RELAY



- Time Function Relay
- Start Time: 1.0-1.5 Seconds
- Universal Mounting Bracket

90XX SERIES POTENTIAL RELAYS



- Voltage Sensitive Relay
- Instant Re-start
- Safety Time Delay
- Use With Any Size Suitable Start Capacitor

Part No.	Continuous Coil Voltage	Pick-up Min.	Pick-Up Max.	Drop Max
9063	168	140	153	45
9064	395	242	272	140
9065	332	168	182	90
9066	395	204	233	130
9067	420	280	310	121
9068	502	314	342	135
9069	338	180	195	105
9070	332	285	305	85
9071	420	223	259	121



903X SERIES GENERAL PURPOSE SWITCHING RELAYS DOUBLE POLE- DOUBLE THROW



SUPCO® Part No.	Coil Voltage	FLA 120V	FLA 208V	FLA 240V	FLA 277V	HP	Essex® / RBM®	Honeywell®
90340	24	13.8	7.6	6.9	6	3/4	90-340	R8222D1014
90341	120	13.8	7.6	6.9	6	3/4	90-341	R4222D1013
90342	208/240	13.8	7.6	6.9	6	3/4	90-342	R4222N1021



FAN RELAYS



Part No.	Coil Voltage	Description	FLA 250V	LRA 250V
90290	24V	SPST	8	18
90291	120V	SPST	8	18
90292	240V	SPST	8	18
90293	24V	SPDT	8	18
90294	120V	SPDT	8	18
90295	240V	SPDT	8	18

Part No.	Coil Voltage	Description	FLA 120V	LRA 120V	FLA 250V	LRA 250V
90370	24V	SPDT	12	60	8	48
90372	120V	SPDT	12	60	8	48
90374	240V	SPDT	12	60	8	48
90380	24V	NO/NC	13	60	8	48
90382	120V	NO/NC	13	60	8	48
90384	240V	NO/NC	13	60	8	48





**INSULTATED MALE SLIP-ONS**



Part No.	Description	Wire Range	Tab Size	UOM
T2003	Pack of 20 pc.	16-14	.187	PK
T2003C	Pack of 100 pc.	16-14	.187	PK
T1003	Pack of 20 pc.	16-14	.250	PK
T1003C	Pack of 100 pc.	16-14	.250	PK
T1004	Pack of 15 pc.	12-10	.250	PK
T1004C	Pack of 100 pc.	12-10	.250	PK

**NON-INSULATED MALE SLIP-ONS**



Part No.	Description	Wire Range	Tab Size	UOM
T1103	Pack of 20 pc.	16-14	.250	PK
T1103C	Pack of 100 pc.	16-14	.250	PK

**INSULATED FEMALE SLIP-ONS**



Part No.	Description	Wire Range	Tab Size	UOM
T2004	Pack of 20 pc.	22-18	.250	PK
T2004C	Pack of 100 pc.	22-18	.250	PK
T2002	Pack of 20 pc.	16-14	.187	PK
T2002C	Pack of 100 pc.	16-14	.187	PK
T1002	Pack of 20 pc.	16-14	.250	PK
T1002C	Pack of 100 pc.	16-14	.250	PK
T1001	Pack of 15 pc.	12-10	.250	PK
T1001C	Pack of 100 pc.	12-10	.250	PK

**NON-INSULATED FEMALE SLIP-ONS**



Part No.	Description	Wire Range	Tab Size	UOM
T2001	Pack of 20 pc.	22-18	.110	PK
T2001C	Pack of 100 pc.	22-18	.110	PK
T1105	Pack of 20 pc.	16-14	.187	PK
T1105C	Pack of 100 pc.	16-14	.187	PK
T1102	Pack of 20 pc.	16-14	.250	PK
T1102C	Pack of 100 pc.	16-14	.250	PK
T1107	Pack of 20 pc.	22-18	.110	PK
T1107C	Pack of 100 pc.	22-18	.110	PK

**FULLY INSULATED FEMALE SLIP-ONS**



Part No.	Description	Wire Range	Tab Size	UOM
T1007	Pack of 10 pc.	22-18	.250	PK
T1007C	Pack of 100 pc.	22-18	.250	PK
T1005	Pack of 10 pc.	16-14	.250	PK
T1005C	Pack of 100 pc.	16-14	.250	PK
T1009	Pack of 10 pc.	12-10	.250	PK
T1009C	Pack of 100 pc.	12-10	.250	PK

## FULLY INSULATED MALE SLIP-ONS



Part No.	Description	Wire Range	Tab Size	UOM
T1006	Pack of 10 pc.	16-14	.250	PK
T1006C	Pack of 100 pc.	16-14	.250	PK
T1008	Pack of 10 pc.	18-22	.250	PK
T1008C	Pack of 100 pc.	18-22	.250	PK
T1010	Pack of 10 pc.	12-10	.250	PK
T1010C	Pack of 100 pc.	12-10	.250	PK

## TAP CONNECTORS



Part No.	Description	Wire Range	UOM	Order Multiple
T1062	Pack of 10 pc.	16-14	PK	1
T1062C	Pack of 100 pc.	16-14	PK	1
T1061	Pack of 10 pc.	22-18	PK	1
T1061C	Pack of 100 pc.	22-18	PK	1
T1064	Pack of 5 pc.	12-10	PK	1
T1064C	Pack of 100 pc.	12-10	PK	1
T1065	Pack of 10 pc.	18-14	PK	1
T1065C	Pack of 100 pc.	18-14	PK	1

## INSULATED CLOSED END CONNECTORS



Part No.	Description	Wire Range	UOM	Order Multiple
T1056	Pack of 20 pc.	22-18	PK	1
T1056C	Pack of 100 pc.	22-18	PK	1
T1057	Pack of 15 pc.	16-14	PK	1
T1057C	Pack of 100 pc.	16-14	PK	1
T1058	Pack of 15 pc.	12-10	PK	1
T1058C	Pack of 100 pc.	12-10	PK	1
T1059	Pack of 15 pc.	8	PK	1
T1059C	Pack of 100 pc.	8	PK	1

## INSULATED TAB ADAPTERS - PIGGY BACK SLIP-ONS



Part No.	Descriptions	Wire Range	UOM	Order Multiple
T1027	Pack of 10 pc.	16-14	PK	1
T1027C	Pack of 100 pc.	16-14	PK	1
T1028	Pack of 10 pc.	22-18	PK	1
T1028C	Pack of 100 pc.	22-18	PK	1
T1029	Pack of 10 pc.	12-10	PK	1
T1029C	Pack of 100 pc.	12-10	PK	1

## NON-INSULATED FLAG FEMALE SLIP-ONS



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1106	Pack of 20 pc.	16-14	.187	PK	1
T1106C	Pack of 100 pc.	16-14	.187	PK	1
T1104	Pack of 20 pc.	16-14	.250	PK	1
T1104C	Pack of 100 pc.	16-14	.250	PK	1

**FLAG FEMALE COMPRESSOR TERMINALS**



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1129	Pack of 10 pc.	12-8	.250	PK	1
T1129C	Pack of 100 pc.	12-8	.250	PK	1
T1130	Pack of 10 pc.	16-14	.250	PK	1
T1130C	Pack of 100 pc.	16-14	.250	PK	1

**INSULATED BUTT CONNECTORS**



Part No.	Description	Wire Range	UOM	Order Multiple
T1051	Pack of 20 pc.	22-18	PK	1
T1051C	Pack of 100 pc.	22-18	PK	1
T1052	Pack of 20 pc.	16-14	PK	1
T1052C	Pack of 100 pc.	16-14	PK	1
T1053	Pack of 15 pc.	12-10	PK	1
T1053C	Pack of 100 pc.	12-10	PK	1

**NON-INSULATED BUTT CONNECTORS**



Part No.	Description	Wire Range	UOM	Order Multiple
T2067C	Pack of 100 pc.	#8	PK	1
T2068	Pack of 20 pc.	#6	PK	1
T2068C	Pack of 100 pc.	#6	PK	1
T2112	Pack of 20 pc.	12-10	PK	1
T2112C	Pack of 100 pc.	12-10	PK	1
T1119	Pack of 20 pc.	22-18	PK	1
T1119C	Pack of 100 pc.	22-18	PK	1
T2111	Pack of 20 pc.	16-14	PK	1
T2111C	Pack of 100 pc.	16-14	PK	1
T2067	Pack of 20 pc.	#8	PK	1
T2067C	Pack of 100 pc.	#8	PK	1

**INSULATED SPADES**



Part No.	Description	Wire Range	STUD	UOM	Order Multiple
T1047	Pack of 20 pc.	22-18	#8	PK	1
T1047C	Pack of 100 pc.	22-18	#8	PK	1
T1048	Pack of 20 pc.	16-14	#10	PK	1
T1048C	Pack of 100 pc.	16-14	#10	PK	1
T1049	Pack of 15 pc.	12-10	#10	PK	1
T1049C	Pack of 100 pc.	12-10	#10	PK	1
T1050	Pack of 15 pc.	12-10	#8	PK	1
T1050C	Pack of 100 pc.	12-10	#8	PK	1

## NON-INSULATED SPADES



Part No.	Description	Wire Range	STUD	UOM	Order Multiple
T1145	Pack of 10 pc.	22-18	#10	PK	1
T1145C	Pack of 100 pc.	22-18	#10	PK	1
T1146	Pack of 10 pc.	16-14	#10	PK	1
T1146C	Pack of 100 pc.	16-14	#10	PK	1
T1147	Pack of 10 pc.	12-10	#10	PK	1
T1147C	Pack of 100 pc.	12-10	#10	PK	1

## INSULATED FLANGE SPADES



Part No.	Description	Wire Range	STUD	UOM	Order Multiple
T1042	Pack of 20 pc.	22-18	#8	PK	1
T1042C	Pack of 100 pc.	22-18	#8	PK	1
T1043	Pack of 20 pc.	16-14	#8	PK	1
T1043C	Pack of 100 pc.	16-14	#8	PK	1
T1044	Pack of 20 pc.	16-14	#10	PK	1
T1044C	Pack of 100 pc.	16-14	#10	PK	1
T1046	Pack of 15 pc.	12-10	#10	PK	1
T1046C	Pack of 100 pc.	12-10	#10	PK	1

## NON-INSULATED FLANGE SPADES



Part No.	Description	Wire Range	STUD	UOM	Order Multiple
T1141	Pack of 20 pc.	22-18	#8	PK	1
T1141C	Pack of 100 pc.	22-18	#8	PK	1
T1142	Pack of 20 pc.	22-18	#10	PK	1
T1142C	Pack of 100 pc.	22-18	#10	PK	1
T1143	Pack of 20 pc.	16-14	#8	PK	1
T1143C	Pack of 100 pc.	16-14	#8	PK	1
T1144	Pack of 20 pc.	16-14	#10	PK	1
T1144C	Pack of 100 pc.	16-14	#10	PK	1

## NON-INSULATED RINGS



Part No.	Description	Wire Range	STUD	UOM	Order Multiple
T1131	Pack of 10 pc.	22-18	#8	PK	1
T1131C	Pack of 100 pc.	22-18	#8	PK	1
T1133	Pack of 20 pc.	16-14	#8	PK	1
T1133C	Pack of 100 pc.	16-14	#8	PK	1
T1134	Pack of 20 pc.	16-14	#10	PK	1
T1134C	Pack of 100 pc.	16-14	#10	PK	1
T1135	Pack of 20 pc.	16-14	1/4"	PK	1
T1135C	Pack of 100 pc.	16-14	1/4"	PK	1
T1136	Pack of 20 pc.	12-10	#8	PK	1
T1136C	Pack of 100 pc.	12-10	#8	PK	1
T1137	Pack of 20 pc.	12-10	#10	PK	1
T1137C	Pack of 100 pc.	12-10	#10	PK	1
T1138	Pack of 15 pc.	12-10	1/4"	PK	1
T1138C	Pack of 100 pc.	12-10	1/4"	PK	1

**INSULATED RINGS**



Part No.	Description	Wire Range	STUD	UOM	Order Multiple
T1030	Pack of 10 pc.	22-18	#6	PK	1
T1030C	Pack of 100 pc.	22-18	#6	PK	1
T1031	Pack of 20 pc.	22-18	#8	PK	1
T1031C	Pack of 100 pc.	22-18	#8	PK	1
T2033	Pack of 20 pc.	16-14	#6	PK	1
T2033C	Pack of 100 pc.	16-14	#6	PK	1
T1032	Pack of 20 pc.	22-18	#10	PK	1
T1032C	Pack of 100 pc.	22-18	#10	PK	1
T1033	Pack of 20 pc.	16-14	#8	PK	1
T1033C	Pack of 100 pc.	16-14	#8	PK	1
T1034	Pack of 20 pc.	16-14	#10	PK	1
T1034C	Pack of 100 pc.	16-14	#10	PK	1
T1035	Pack of 15 pc.	16-14	1/4"	PK	1
T1035C	Pack of 100 pc.	16-14	1/4"	PK	1
T1039	Pack of 15 pc.	16-14	3/8"	PK	1
T1039C	Pack of 100 pc.	16-14	3/8"	PK	1
T1036	Pack of 15 pc.	12-10	#8	PK	1
T1036C	Pack of 100 pc.	12-10	#8	PK	1
T1037	Pack of 15 pc.	12-10	#10	PK	1
T1037C	Pack of 100 pc.	12-10	#10	PK	1
T1038	Pack of 15 pc.	12-10	1/4"	PK	1
T1038C	Pack of 100 pc.	12-10	1/4"	PK	1
T1040	Pack of 15 pc.	12-10	3/8"	PK	1
T1040C	Pack of 100 pc.	12-10	3/8"	PK	1
T2065	Pack of 15 pc.	8	1/4"	PK	1
T2065C	Pack of 100 pc.	8	1/4"	PK	1
T2066	Pack of 15 pc.	6	1/4"	PK	1
T2066C	Pack of 100 pc.	6	1/4"	PK	1

**HIGH TEMPERATURE FEMALE SLIP-ONS**



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1111	Pack of 20 pc.	16-14	.250	PK	1
T1111C	Pack of 100 pc.	16-14	.250	PK	1
T1112	Pack of 15 pc.	12-10	.250	PK	1
T1112C	Pack of 100 pc.	12-10	.250	PK	1

**HIGH TEMPERATURE FLAG FEMALE SLIP-ONS**



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1113	Pack of 20 pc.	16-14	.250	PK	1
T1113C	Pack of 100 pc.	16-14	.250	PK	1
T1114	Pack of 20 pc.	12-10	.250	PK	1
T1114C	Pack of 100 pc.	12-10	.250	PK	1

## HIGH TEMPERATURE RINGS



Part No.	Description	Wire Range	STUD	UOM	Order Multiple
T1115	Pack of 20 pc.	16-14	#10	PK	1
T1115C	Pack of 100 pc.	16-14	#10	PK	1
T1116	Pack of 20 pc.	16-14	1/4"	PK	1
T1116C	Pack of 100 pc.	16-14	1/4"	PK	1
T1117	Pack of 20 pc.	12-10	#10	PK	1
T1117C	Pack of 100 pc.	12-10	#10	PK	1
T1118	Pack of 15 pc.	12-10	1/4"	PK	1
T1118C	Pack of 100 pc.	12-10	1/4"	PK	1

## NON-INSULATED RECEPTACLES



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1110	Pack of 20 pc.	16-14	.157	PK	1
T1110C	Pack of 100 pc.	16-14	.157	PK	1

## TAB ADAPTERS - SINGLE FEMALE - DOUBLE MALE



Part No.	Description	Tab Size	UOM	Order Multiple
T1122	Pack of 10 pc.	.250	PK	1
T1122C	Pack of 100 pc.	.250	PK	1
T1125	Pack of 10 pc.	.250	PK	1
T1125C	Pack of 100 pc.	.250	PK	1

## TAB ADAPTERS - MALE TABS



Part No.	Description	Tab Size	STUD	UOM	Order Multiple
T1123	Pack of 10 pc.	.250	#10	PK	1
T1123C	Pack of 100 pc.	.250	#10	PK	1

## TAB ADAPTERS - QUICK DISCONNECT WITH SCREW



Part No.	Description	Tab Size	Screw	UOM	Order Multiple
T1124	Pack of 10 pc.	.250	#6	PK	1
T1124C	Pack of 100 pc.	.250	#6	PK	1

## CHAIR TERMINALS



Part No.	Description	Tab Size	UOM	Order Multiple
T1121	Pack of 10 pc.	.250, 2 Male x 1 Female QC	PK	1
T1121C	Pack of 100 pc.	.250, 2 Male x 1 Female QC	PK	1

## QUICK DISCONNECTS - INSULATED ROUND



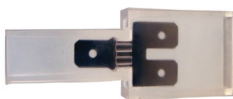
Part No.	Description	Tab Size	UOM	Order Multiple
T1021	Pack of 10 pc.	.250, Double Male Tab	PK	1
T1021C	Pack of 100 pc.	.250, Double Male Tab	PK	1

**QUICK DISCONNECTS - INSULATED SQUARE**



Part No.	Description	Tab Size	UOM	Order Multiple
T1022	Pack of 10 pc.	.250, Double Male Tab	PK	1
T1022C	Pack of 100 pc.	.250, Double Male Tab	PK	1

**QUICK DISCONNECTS - INSULATED**



Part No.	Description	Tab Size	UOM	Order Multiple
T1023	Pack of 10 pc.	.250, Triple Male Tab	PK	1
T1023C	Pack of 100 pc.	.250, Triple Male Tab	PK	1

**QUICK DISCONNECTS - NON-INSULATED**



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1108	Pack of 20 pc. Bullet Male	16-14	.157	PK	1
T1108C	Pack of 100 pc. Bullet Male	16-14	.157	PK	1



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1109	Pack of 20 pc. Female Tab w/ Crimp	16-14	.250	PK	1
T1109C	Pack of 100 pc. Female Tab w/ Crimp	16-14	.250	PK	1



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1120	Pack of 10 pc. Female Tab w/ Crimp	16-14	.312	PK	1
T1120C	Pack of 100 pc. Female Tab w/ Crimp	16-14	.312	PK	1



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T1127	Pack of 10 pc.	16-14	.250	PK	1
T1127C	Pack of 100 pc.	16-14	.250	PK	1



Part No.	Description	Wire Range	Tab Size	UOM	Order Multiple
T2101	Pack of 20 pc. Female Tab w/ Crimp High Temp	16-14	.250	PK	1
T2101C	Pack of 100 pc. Female Tab w/ Crimp High Temp	16-14	.250	PK	1

**WIRE CONNECTORS - PLASTICS**



Part No.	Description	UOM	Order Multiple
T1150	Pack of 20 pc., Small Blue w/ Spring Insert	PK	1
T1150C	Pack of 100 pc., Small Blue w/ Spring Insert	PK	1
T1151	Pack of 15 pc., Medium Orange w/ Spring Insert	PK	1
T1151C	Pack of 100 pc., Medium Orange w/ Spring Insert	PK	1
T1152	Pack of 15 pc., Large Yellow w/ Spring Insert	PK	1
T1152C	Pack of 100 pc., Large Yellow w/ Spring Insert	PK	1
T1153	Pack of 10 pc., Extra Large Red w/ Spring Insert	PK	1
T1153C	Pack of 100 pc., Extra Large Red w/ Spring Insert	PK	1
T1161	Pack of 20 pc. Small Yellow w/o Spring Insert	PK	1
T1161C	Pack of 100 pc. Small Yellow w/o Spring Insert	PK	1

## WIRE CONNECTORS - PORCELAIN HIGH TEMPERATURE (UP TO 1800°F)



Part No.	Description	Gauge (AWG)	STUD	UOM	Order Multiple
T1164	Pack of 15 pc.	18-14	#1	PK	1
T1164C	Pack of 100 pc.	18-14	#1	PK	1
T1165	Pack of 15 pc.	12-10	#3	PK	1
T1165C	Pack of 100 pc.	12-10	#3	PK	1
T2070	Pack of 10 pc.	10-8	#7	PK	1
T2070C	Pack of 100 pc.	10-8	#7	PK	1

## WIRE CONNECTORS - SCOTCHLOK SPRING



Part No.	Description	UOM	Order Multiple
T1166	Pack of 15 pc., Small Yellow Spring	PK	1
T1166C	Pack of 100 pc., Small Yellow Spring	PK	1
T1167	Pack of 10 pc., Medium Red Spring	PK	1
T1167C	Pack of 100 pc., Medium Red Spring	PK	1
T1168	Pack of 5 pc., Large Grey Spring	PK	1
T1168L	Pack of 50 pc., Large Grey Spring	PK	1
T1169	Pack of 5 pc., Extra Large Blue Spring	PK	1
T1169L	Pack of 50 pc., Extra Large Blue Spring	PK	1

## BANANA PLUG - INCLUDES BLACK &amp; RED INSULATORS



Part No.	Description
T1179	1 Pair

## HEAVY DUTY ALLIGATOR CLIPS



Part No.	Description	UOM	Order Multiple
T1186	Small, Includes Black and Red Insulators	PK	1
T1187	Medium, Includes Black and Red Insulators	PK	1
T1188	Large, Includes Black and Red Insulators	PK	1
ALLCLIP	Replacement Alligator Clips for SUPCO® Meters	PK	1

## ALLIGATOR CLIPS - STANDARD



Part No.	Description	UOM	Order Multiple
T1191	Small	PK	1
T1192	Medium	PK	1
T1193	Medium, For Use with Test Leads	PK	1
T1196	Small, Includes Black and Red Insulators	PK	1
T1197	Medium, Includes Black and Red Insulators	PK	1





# ORIGINAL

[uh-rij-uh-nl]

created directly and personally; not a copy or imitation.



When you need to replace the exact Camstat® OEM heating control components, look to one source - SUPCO®. We are the sole manufacturer of Camstat® controls in the industry. We manufacture the complete line at our corporate headquarters in New Jersey using original Camstat® equipment and tooling.

# CAM-STAT®

A Division of SUPCO®



### S106 SERIES TIME DELAY RELAYS



- SPST or SPDT
- Delay On/Off Timing
- 24 VAC Input

Part No.	A-1 Part No.	Switch Action	Time Delay ON (sec)	Time Delay OFF (sec)
S1061A4575C	FF582	SPST	30 to 50	60 to 90
S1061A5040C	FF583	SPST	45 to 55	30 to 50
S1061A40100C	FF584	SPST	35 to 45	80 to 110
S1061A5560C	FF585	SPST	50 to 60	45 to 75
S1061B6545C	FF586	SPDT	60 to 70	45 to 75

### F47 & F214 SERIES FAN CONTROLS



- Adjustable Fan Off Setting
- Adjustable Fan Differential Setting

Part No.	A-1 Part No.	Width	Length	Fan OFF Temp (°F)	Fan Differential (°F)
F473TD12025C	FF564	7/16"	3"	90 to 120	25 to 50
F477TD12025C	FF565	7/16"	7"	90 to 120	25 to 50
F21412A14025C	FF562	1-1/16"	3"	60 to 140	25 to 50
F21413A14025C	FF563	1-1/16"	7"	60 to 140	25 to 50

### L59 LIMIT CONTROLS



- SPDT Switch
- Adjustable Limit Setting

Part No.	A-1 Part No.	Length	Fan OFF Temp. (°F)	Fixed Differential (°F)
L593BA	FF568	3"	120 to 250	30
L597BA	FF569	7"	120 to 250	30

### FA47TS SERIES FAN CONTROLS W/ TIME START



- Built in "Heat Assist" Timed Blower On
- Adjustable Fan OFF Setting

Part No.	A-1 Part No.	Length	Fan OFF Temp (°F)	Fan Differential (°F)	Time Delay 24 VAC (sec)
FA47TS3110	FF566	3"	80 to 110	60 (Fixed)	25 to 60
FA47TS7110	FF567	7"	80 to 110	60 (Fixed)	25 to 60

### FAL SERIES UNIVERSAL FAN AND LIMIT CONTROLS



- Adjustable Fan OFF Setting
- Adjustable Fan Differential Setting
- Adjustable Limit Setting

Part No.	A-1 Part No.	Length	Fan OFF Temp (°F)	Fan Differential (°F)	Limit Temp (°F)	Limit Differential (°F)
FAL3C05TD120A	FF558	3"	90 to 120	25 to 50	150 to 250	30
FAL7C05TD120A	FF559	7"	90 to 120	25 to 50	150 to 250	30
FAL7C20BT120AB	FF594	7"	90 to 120	25 to 50	150 to 250	30

### BC7070 (F7070) BLOWER CONTROL



- Increase Heating Efficiency by Delaying the ON and OFF Cycle of the Blower Fan
- Control Voltage: 24 VAC
- Relay Contacts: SPST
- Blower On Time: 0-240 Seconds Adjustable
- Blower Off Time: 0-240 Seconds Adjustable



FALTS SERIES FAN AND LIMIT CONTROLS W/ TIME DELAY



- Adjustable Fan Off Setting
- Adjustable Heat Assist for Timed Blower On
- Adjustable Limit Setting

Part No.	A-1 Part No.	Length	Fan OFF Temp. (°F)	Limit Temp (°F)	Limit Differential (°F)
FALTS57C05T120A	FF560	7"	90 to 120	150 to 250	30
FALTS57C65T120A	FF561	7" w/ shield	90 to 120	150 to 250	30
FALTS57C13BT120A	FF591	7" SPDT	90 to 120	150 to 250	30

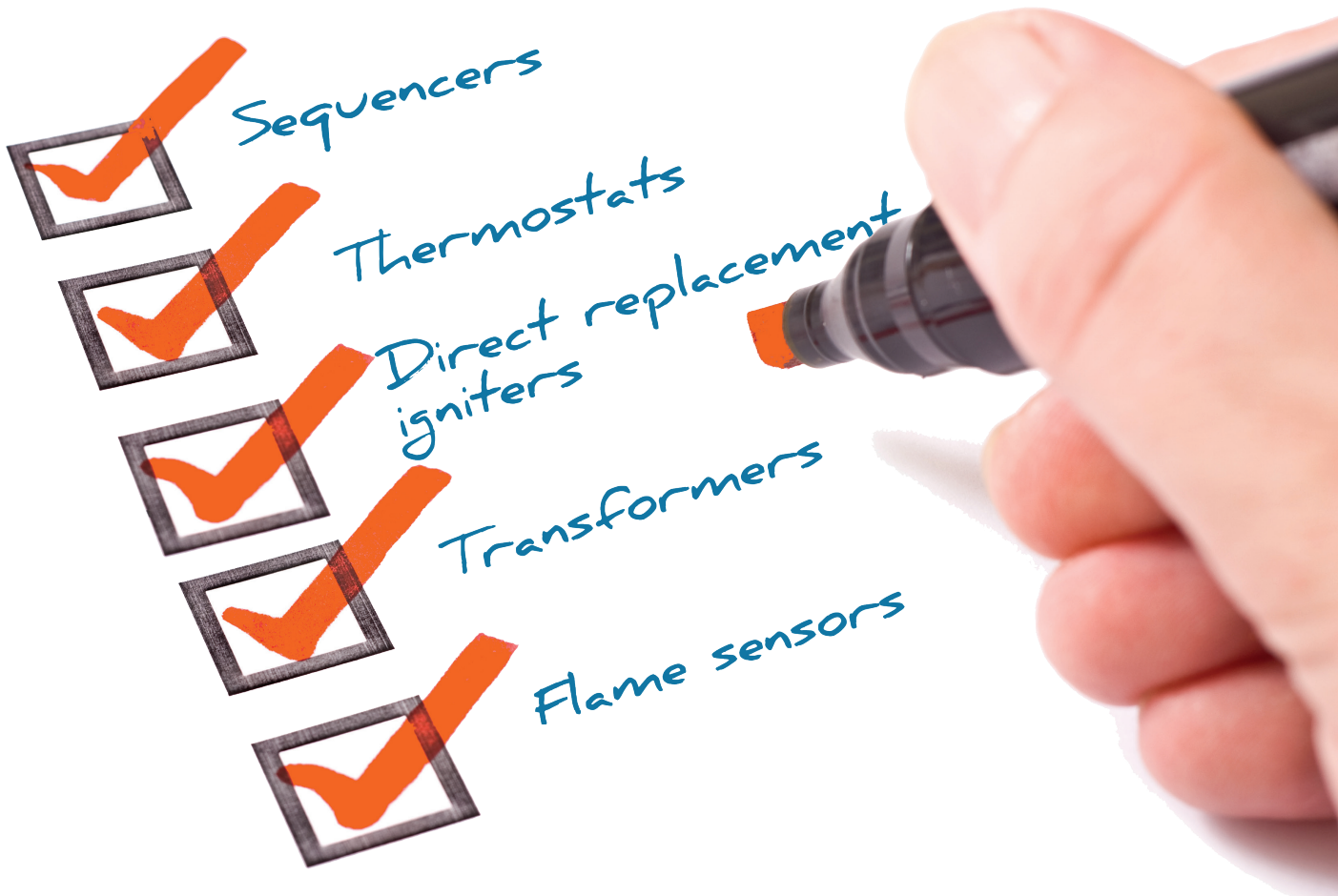
PR SERIES PILOT REIGNITERS



- Prevents Pilot Flames from Extinguishing

Part No.	A-1 Part No.	Description
PR24120	FF541	Hardware Kit for PR2412036W
PR2412036W	FF536	24/120 VAC Hardware Kit, Spark Cable & Module

SUPCO IS YOUR #ONESOURCE FOR YOUR COMPONENTS NEEDS.



**TD SERIES TIME DELAYS**

- Fixed or Adjustable Delay Ranges
- Initiates Timer in 70 Milliseconds
- Broad Input Voltage Range (Pilot Circuit)  
19 to 250 VAC/VDC, 50/60 Hz (TD60)  
19 to 250 VAC ONLY, 50/60 Hz (TD70)
- Maximum Load 1.0 Amp, 10 Amp Inrush
- Varying Models Work With or Without Anticipator Type Thermostats
- Terminal or Wire Connections Available
- Operating Temperature Range 0°F to 160°F (-18°C to 71°C)
- Compact Size 2" x 2" x 0.75" (5.08 x 5.08 x 1.9 cm)
- Non Positional Single Hole Mounting
- All Parameters are Subject to Change as per Special Requirements
- By-pass a Control or Device During Start Up
- Helps to Reduce Power Surges in Multiple Compressor Applications

**TD60 SERIES DELAY ON MAKE TIMES (DOM)**



- Time delay initiates when power is applied. Load is energized at completion of timing cycle. Timer will reset on power interruption or when thermostat disconnects.
- Cut Jumper for 120/240 VAC circuit. Leave jumper for 24 VAC Circuit.

Part No.	Input	Max Load	Delay	Replaces
TD68**	19-250 VAC	1 Amp.	6 sec to 8 min	AC-800-ADM1, ICM105, 32391
TD69	19-250 VAC	1 Amp.	6 sec to 8 min	AC-800-ADM1, ICM102, 32391, EAC-701

\*\* Do not use TD68 with a cooling anticipator

**TD70 SERIES DELAY ON BREAK TIMERS (DOB)**



- When power is applied, load is energized immediately. When the thermostat opens or on power interruption, the load is de-energized until the timer completes timing cycle.
- Cut jumper for 120/240 VAC circuit. Leave jumper for 24 VAC circuit.

Part No.	Input	Max Load	Delay	Replaces
TD72**	19-250 VAC	1 Amp.	6 sec to 5 min	ASC-500-ADB1, ICM203, 32392, EAC-501
TD73	19-250 VAC	1 Amp.	6 sec to 5 min	ASC-500-ADB1, ICM203, 32392, EAC-501

\*\* Do not use TD72 with a cooling anticipator

**TDP269 SHORT CYCLE PROTECTOR**



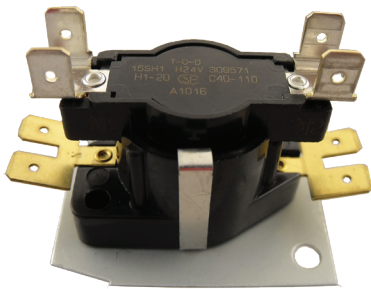
- Time Delay on Make Relay and Contactor Combination
- Adjustable time delay on make relay
- Relay coil same voltage as load
- 1/4" male quick connect terminals
- Prevents compressor short cycling
- Contactor takes compressor load off the thermostat circuit
- Maximum Amps: 30
- Input Voltage VAC: 208-230

**EDT12-20 ELECTRONIC INTERVAL TIMER**



- Adjustable interval timers
- Humidity range: 10-95% Non-condensing
- Temperature range: 32°F to 135°F (0°C to 57°C)
- On time 5 to 60 minutes - Off time 1 to 24 hours
- Fast Cycle Button alternates ON and OFF cycles every 40 to 60 seconds
- Timer reset connection for external reset control
- Maximum Inductive Load: 2 HP
- Max. Switching Current (resistive): 25A

All Sequencers are OEM Approved for Safety and Reliability



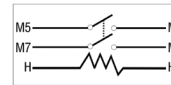
- Direct Replacement for Most Fan & Heat Sequencing Functions
- 24 Volt Input Control
- Contacts Designated M1-M2 of a Multi-timing Sequencer will Turn On First and Turn Off Last, as Required by UL® and CSA® for Electric Heating Applications
- Five Second on Delay Between all Subsequent Stages, Unless they Function Together

**Q101, Q109 & Q116**



Q101 OFF 40-110 Sec.  
ON 1-20 Sec.  
Q109 OFF 40-110 Sec.  
ON 20-50 Sec.  
Q116 OFF 1-45 Sec.  
ON 1-60 Sec.

**Q104 & Q110**

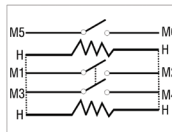


Q104 OFF 1-30 Sec.  
ON 30-90 Sec.  
Q110 OFF 30-60 Sec.  
ON 10-30 Sec.



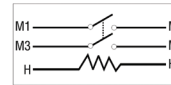
Q102 OFF 1-30 Sec.  
ON 30-90 Sec.

**Q105**

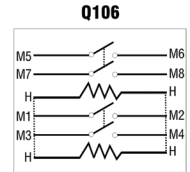


OFF 1-110 Sec.  
ON 1-110 Sec.

**Q103 & Q113**

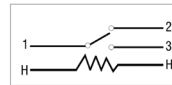


Q103 OFF 40-110 Sec.  
ON 1-20 Sec.  
\*Q113 OFF 15-65 Sec.  
ON 30-10 Sec.  
\*Q113 Has 240 Volt Heater



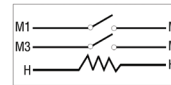
Q106 OFF 1-110 Sec.  
ON 1-110 Sec.

**Q108**

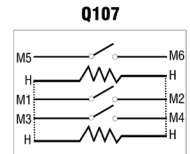


OFF 65-115 Sec.  
ON 1-25 Sec.

**Q111**

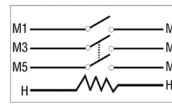


OFF M1-M2 90-160 Sec.  
ON M1-M2 10-40 Sec.  
OFF M3-M4 30-60 Sec.  
ON M3-M4 10-30 Sec.



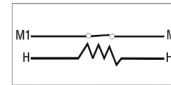
Q107 OFF 40-110 Sec.  
ON 1-20 Sec.

**Q112**

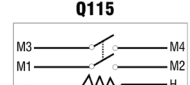


OFF M1-M2 90-150 Sec.  
ON M1-M2 10-3 Sec.  
OFF M3-M4 30-60 Sec.  
ON M3-M4 10-30 Sec.  
OFF M5-M6 30-60 Sec.  
ON M5-M6 10-30 Sec.

**Q114**



OFF 15-25 Sec.  
ON 15-45 Sec.



Q115 OFF 1-45 Sec.  
ON 1-60 Sec.

\*Note all sequencers include a 24 volt heater, except the Q113 which has a 240 volt heater.

SUPCO® Part No.	GEM®	Global®	Mars®	Watsco®	Klixon®	W/R®	Robershaw®	Interstate Electric® 1-9	Zetler®	OEM
Q101	GS101 *** ***	24CZ-1 *** ***	33241 33841 ***	TDR10 *** ***	6000AONI-98 *** ***	24A34-1 24A34-7 24A34-13	611-241 *** ***	IES24A34-1 *** ***	ZC24A34-1 *** ***	Goodman® B1290906 Lennox® 12F20 & 58C9701 York® 525-37322-000
Q102	GS102 ***	24CZ-2 ***	33242 33842	TDR15 ***	6000AONI-97 ***	24A34-2 ***	611-242 ***	IES24A34-2 ***	ZC24A34-2 ***	Carrier® 40CF680020
Q103	GS103 *** *** ***	24CZ-3 *** *** ***	33244 33844 ***	TDR20 *** *** ***	6000AONI-87 6000EO-102 ***	24A34-3 *** *** ***	611-244 *** *** ***	IES24A34-3 *** *** ***	ZC24A34-3 *** *** ***	ICP® / Carrier® HN67QC005 ICP® / Carrier® HQ1056789 Goodman® BT1256504
Q104	GS104 *** ***	24CZ-4 *** ***	33245 33845 ***	TDR25 *** ***	6000E049 *** ***	24A34-4 *** ***	611-245 *** ***	IES24A34-4 *** ***	ZC24A34-4 *** ***	York® 525-37325-000 ICP® / Carrier® HN67QC006
Q105	GS105 ***	24CZ-5 ***	33232 33832	TDR30 ***	51172-32 ***	24A34-5 24A34-54	611-232 ***	IES24A34-5 ***	ZC24A34-5 ***	York® 525-37327-000 Coleman® 3120A357
Q106	GS106 ***	24CZ-6 ***	33233 33833	TDR35 ***	51172-33 ***	24A34-6 ***	611-233 ***	IES24A34-6 ***	ZC24A34-6 ***	ICP® / Carrier® HN67QC008 ICP® / Carrier® P284-1313
Q107	GS107	24CZ-14	33848	***	51172-35-1	24A34-14	611-007	IES24A34-14	ZC24A34-14	York® 525-37328-000
Q108	GS108 ***	*** ***	*** ***	*** ***	6000CO-27 ***	*** ***	*** ***	*** ***	*** ***	Goodman® B13707-38 ICP® / Carrier® HN67GJ002
Q109	***	***	***	***	***	***	***	***	***	Janitrol® BT1256500
Q110	***	***	***	***	***	***	***	***	***	Weatherking® 4223115608
Q111	***	***	***	***	***	***	***	***	***	Weatherking® 4223115606
Q112	***	***	***	***	***	***	***	***	***	Weatherking® 4223115607
Q113*	***	***	33265	***	6000E4-40	***	***	***	***	***
Q114	*** ***	*** ***	*** ***	*** ***	*** ***	*** ***	*** ***	*** ***	*** ***	Coleman® 7670-307, 7670-308 7670-130, 7670-913, 7670-101
Q115	***	***	33246	***	6000EOM	24A52-1	***	***	**	Coleman® 3120A3771
Q116	***	***	33243	***	6000AOM	24A51-1	***	***	***	Coleman® 3110-354

**DIRECT REPLACEMENT FURNACE IGNITERS**

- Steady Current: 4.25 Amps @ 115 VAC
- Maximum Current: 5 Amps @ 132 VAC
- Time to Temperature (1800°F): < 17 Seconds



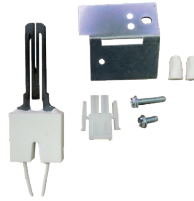
**SKIT03033 FURNACE IGNITER**  
 Johnstone® L45-113  
 Trane® KIT03033  
 Surface Igniter® DS010KJ



**SPLT3400 FURNACE IGNITER**  
 Johnstone® L45-114  
 Lochinvar® PLT3400  
 Surface Igniter® DS007KJ



**S0230K000005 FURNACE IGNITER**  
 Goodman® 0230K000005



**S903758 IGNITER KIT**  
 Nordyne® 903758  
 Johnstone® L45-115  
 Surface Igniter® DS009KJ

**FLAT SILICON CARBIDE FURNACE IGNITERS**

- Input: 120 VAC
- Maximum Current: 5 Amps @ 132 VAC
- Time to Temperature (1800°F): < 17 Seconds



**IG401 EXACT FURNACE IGNITER**  
 Amana® B1336102, BD99182, 10041601  
 Honeywell® Q4100C9042/U  
 Norton® 201A, 271A, MB258909  
 Trianco- Heatmaker® 2400-048, 2400-286,  
 2600-359, 3079-100, 9330-102  
 Mars® 67914  
 Robertshaw® 41-401  
 Surface Igniter® DS401KX  
 Sarlite® 1401, 41-401  
 White Rogers® 767A309, 767A352,  
 767A356, 767A369



**IG402K FURNACE IGNITER**  
 American Road Equipment® 201W  
 Armstrong Air® 38322B001  
 Clare Bros® C232, C242  
 Coleman® 1474-051, 174-052  
 DMO Industries® 20834, 26789  
 Dornback Furnace® 271W  
 Enerco Tech® 10399  
 Evcon® 1474-051, 1474-052  
 Honeywell® Q4100C9046/U  
 Hupp Industries® 9050  
 Johnstone® L45-539  
 Majestic® 75-92-104, 75-92-105  
 Metzger® 201N, 201W  
 Mars® 67915, 67919, 38013, 38016,  
 97915  
 Robert Gordon® 90436600  
 Robertshaw® 41-402, 41-408, 41-410,  
 41-411  
 Starlite® 1408, 1410, 1056, 1066, 1402,  
 1033  
 Surface Igniter® DS402KX  
 Trane® 340039P01, B144676P01,  
 B340039P01, IGN23, IGN34  
 Wayne Home Equip® 62821-001,  
 62821-002  
 White LB Company® 120-07549  
 White Rogers® 767A-357, 767A-371,  
 767A-372  
 Williamson® 9050



**IG403K UNIVERSAL FURNACE IGNITER**  
 Carrier Corp® LH33ZS001A, LH33ZS002, LH33ZS003,  
 LH33ZS004  
 Ducane® 20015201  
 Johnstone® L45-540  
 Mars® 67916, 67918, 67920  
 Norton® 201, 271  
 Paypack® 600915  
 Robert Gordon® 90434300  
 Surface Igniter® DS403KX  
 Robertshaw® 41-403, 41-404, 41-407, 41-409  
 Snyder General® 1380654, 1380672, 1380680  
 Starlite® 1403, 1407, 1409  
 Trane® B138196P01, B144676P02, IGN26, IGN30  
 Weil McLain® 511-330-139, 511-330-190, 551-330-193  
 White Rogers® 767A382





**IG404 EXACT FURNACE IGNITER**

Honeywell® Q4100C9048/U  
 Johnstone® L45-541  
 Norton® 271M, MB258912,  
 MB478265  
 Robertshaw® 41-404  
 Surface Igniter® DS404KX  
 Weil McLain® 511-330-190  
 White Rogers® 767A382



**IG405 EXACT FURNACE IGNITER**

Detroit Radiant 201D  
 HB Smith 50018, 101344, 1148245  
 Heil Quaker Q4100C9068/U  
 Johnstone L37-812, L45-542  
 Mars 67917  
 Norton 201D, 271D, 271P, MB457026,  
 MB478627



**IG406 EXACT FURNACE IGNITER**

American Appliance® 271B  
 American Water Heater® 6901800,  
 6903767, 6903768  
 Comfort Zone® 150114-04-01  
 Glowcore® 1950001, HSRK7,  
 FY009  
 Honeywell® Q4100C9050/U  
 Johnstone® L37-813, L45-543  
 Lochinvar® LCVT270021G,  
 PLT2702  
 Mars® 67925  
 Mor-Flo® 3200580, 3210401  
 Norton® 201B, 201J, 201M,  
 201N, 271M, 271Y, MB457027,  
 MB478601  
 Perfection Schwank® 108803-G1  
 Robertshaw® 41-406  
 Starlite® 1406  
 Surface Igniter® DS406KX  
 Weil McLain® 511-330-188  
 White Rogers® 767A374



**IG407 EXACT FURNACE IGNITER**

Amana® B144676P02  
 Honeywell® Q4100C9052/U  
 Johnstone® L37-814, L45-544  
 Norton® 371M, MB457038  
 Robertshaw® 41-407  
 Starlite® 1407  
 Surface Igniter® DS407KX  
 Trane® B144676P01, IGN30  
 White Rogers® 767A376



**IG408 EXACT FURNACE IGNITER**

Amana® B340039P01  
 Honeywell® Q4100C9054/U  
 Johnstone® L37-815, L45-545  
 Norton® 271N, MB457025,  
 MB478266  
 Rheem® 62-22441-01,  
 62-22668-93  
 Robertshaw® 41-408  
 Starlite® 1408  
 Surface Igniter® DS408KX  
 Trane® IGN34  
 White Rogers® 767A372



**IG409 EXACT FURNACE IGNITER**

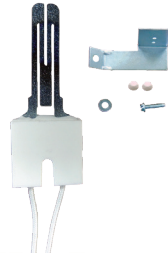
Carrier® LH33ZS001A, LH33ZS002,  
 LH33ZS003, LH33ZS004  
 Ducane® 20015201  
 Honeywell® Q4100C9056/U  
 Johnstone® L37-816, L45-546  
 Norton® 201, 271, MB457555  
 Raypack® 600915  
 Rheem® 90434300  
 Robert Gordon® 90436600  
 Robertshaw® 41-409  
 Starlite® 1409  
 Snyder General® 13806554, 1380672,  
 1380680  
 Surface Igniter® DS409KX  
 Trane® B138196P01, IGN26, IGN30  
 Weil McLain® 511-330-139,  
 511-330-193  
 White Rogers® 767A370

References to original equipment manufacturers' names, models, trademarks and part numbers are used for identification purposes only and SUPCO® replacement products are not in any way affiliated, endorsed or sponsored by such original equipment manufacturers.



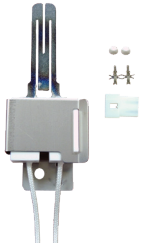
**IG410 EXACT FURNACE IGNITER**

Amana® B144676P01  
 Honeywell® Q4100C9058/U  
 Johnstone® L45-547  
 Norton® 271M, MB457551,  
 MB478270  
 Robertshaw® 41-410  
 Surface Igniter® DS410KX  
 Trane® B144676P01, IGN30  
 White Rogers® 767A376



**IG411 EXACT FURNACE IGNITER**

Johnstone® L45-548  
 Norton® 271N  
 Rheem® 62-22868-82  
 Robertshaw® 41-411  
 Surface Igniter® DS411KX  
 White Rogers® 767A383



**IG412 EXACT FURNACE IGNITER**

EZ Flow® 62374  
 Goodman® B1401009, B1401018  
 GSW® 71082, 86483  
 Heil Quaker® 1009604, 1096048,  
 1096047  
 Honeywell® Q4100C9062/U  
 Johnstone® L45-549  
 Mars® 68014  
 Norton® 271NM, MB458902,  
 MB478272  
 Robertshaw® 41-412  
 Surface Igniter® DS412KX  
 White Rogers® 767A373



**IG414 EXACT FURNACE IGNITER**

Heil Quaker®, Arcoaire®, Tempstar®,  
 Comfortmaker®, ICP® 1096048, 1380680  
 Goodman® B14010-18  
 Honeywell® Q4100C9066/U  
 Johnstone® L45-550  
 Mars® 68014  
 Norton® 271NM  
 Surface Igniter® DS414KX  
 White Rogers® 767A384



**IG418 EXACT FURNACE IGNITER**

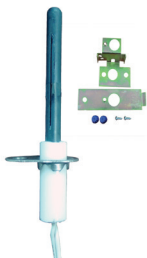
Goodman® B1401018S  
 Honeywell® Q4100C9060/U  
 Johnstone® L45-552  
 Norton® 271NM  
 Robertshaw® 41-418  
 Surface Igniter® DS418KX



**IG4000 FURNACE IGNITER**

- Universal Replacement Kit with 5 brackets & hardware
- See Page 34 for Cross Reference

**SILICON NITRIDE FURNACE IGNITERS**



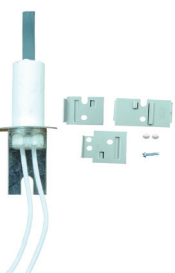
**SSN2000**

- Economic Design
- < 17 Second Time to Temperature
- > 50,000 Cycles
- 1 Year Warranty
- See Page 35 for Cross Reference



**SSN3000**

- Robust Design
- < 17 Second Time to Temperature
- > 50,000 Cycles
- 2 Year Warranty
- See Pages 35-36 for Cross Reference



**SSN4000**

- Miniature Design
- < 10 Second Time to Temperature
- > 200,000 Cycles
- 3 Year Warranty
- See Page 36-37 for Cross Reference



**SSN24**

- Compatible with Honeywell® 1st and 2nd Generation Smart Valve
- Includes Igniter and Flame Rod
- See Page 34 for Cross Reference





**SSN0145**  
 • Economic Design  
 • < 17 Second Time to Temperature  
 • 80 Volt  
 Trane® IGN-0145



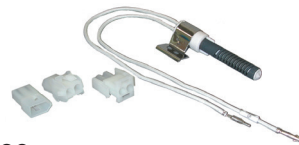
**SSN6005**  
 • Easy fit  
 • Drop-in Replacement  
 • 80 Volt  
 A.O. Smith® 100109355, 9003626005  
 9003627005, 9003627115,  
 9004041005, 9004602215

**ROUND SILICON CARBIDE FURNACE IGNITERS**

Exact Replacement Round Igniters  
 • Replaces Exact OEM Round Igniters



**SIG100**  
 Carrier® LH33ZS001A,  
 LH33ZS002A,  
 Ducane® 20015201  
 HB Smith® 50018  
 ICP® 1380654, 1380672, 1380680  
 Johnstone® L38-692  
 LB White® 120075  
 Raypack® 600915  
 Surface Igniter® FT001KSX  
 Viessman® 9302094  
 Wayne Home Equip.® 62821001,  
 62821002  
 Weil Mclain® 511330139, 51133093  
 Trane® B138196P01, B144676P02,  
 York® 02527774000, 02527776000,  
 02529043000, 0252905000



**SIG101**  
 Gemline® IG101  
 Johnstone® L38-693  
 Nordyne® 902661, 902694  
 Surface Igniter® FCO35KX



**SIG104**  
 Gemline® IG101  
 Johnstone® L39130  
 Nordyne® 902661, 902694  
 Surface Igniter® FCO47KX



**SIG102**  
 Goodman® 10735002  
 Grimsby Stove® ZCO-035  
 ICP® 100-9980  
 Johnstone® L38-694  
 Nordyne® RH62286892  
 Olsen Ind./ DMO® 20834  
 Surface Igniter® FCO46KX  
 York® 14740511



**SIG106**  
 Norton® 271B, 271J, 271N, 271Y



**SIG107**  
 EZ Flow® 62374  
 ICP® 1096047  
 Robertshaw® 41-407, 41-412



**SIG108**  
 Johnstone® L40-486  
 Rheem® SP10972  
 Surface Igniter® FCO24KX



**SIG109**  
 GEM® IG109



**SIG1100**  
 • Universal Igniter Kit  
 • Includes 3 Brackets  
 • See Page 34 for Cross Reference

**IG4000 FLAT UNIVERSAL SILICON CARBIDE**

Amana® 10735002	John Woods®/ GSW P.V.®	Lennox® 33J3701	Superior Fireplace®	York® 025-32626-000 473-12509-001 373-09154-700 025-27774-000 025-29043-000 025-29050-000 025-27766-000 025-30277-000 025-32638-002 025-32625-000 025-31801-000 373-05342-700	Robertshaw® Uniline® 41-238 41-242 41-402 41-403 41-404 41-405 41-407 41-408 41-409 41-410 41-412 41-414 41-1090
Arco Air® See ICP®	86483 H.B. Smith®	Majestic® 75-92-104 75-92-105	94851 Trane®		
Armstrong® 38322B001	50018 Hupp Ind®	Metzger® 201N 201W	3400339P01 B340039P01 B12996P01 B144676P01 B144676P02 B138196P01		
Clare Bros® C238 C238-1	9050 Raypack® 600915	Mor-Flo® 3200618	IGN21 IGN23 IGN26 IGN28 IGN30 IGN34		
Coleman®/ Evcon® 14740511 14740512	ICP®/Heil®/ Arco Air®/ Comfortmaker®/ Tempstar®/ Keeprite®	Nordyne®/ Tappan®/ Frigidaire®/ Philco®/ Intertherm®/ Miller®	DS001KJ Viessman®	Norton® 101M 201D 201K 201L 201M 201P 201W 271D 271M 271N 271P 271R 271RS 271W 271NM	
Detroit®/ Brant Radiant® 201D	1009604 1096047 1096048 1001344	903110 105141000 RH622286893	Surface Igniter® 9302-093 9302-094		
DMO®/Olsen ECR Ind® 26789 20834	1380680 1148245 Integra® 6905032 3260618	632-0770 632-0880 902661 902694 903758 632-3811 632-3540	Wayne Home Equipment® 62821-001 62821-002		
Dornback® 271W	Johnstone®		Weil McLain® 29074 511-330-139 511-330-193 511-330-190		
Ducane® 20015201	L37-699 L37-700 L37-812	Rheem Rudd® 62-22868-93 62-22441-01 62-22868-82	Williamson® 09050		
Enerco Tech® 10399	L37-814 L37-815 L37-816 L45-551				
Goodman®/ Janitrol® B1172606 B1193939 B1401009 B1401015 B1401018	L.B. White Co® 120-07549	Roberts Gordon® 90434300 90436600			

**SSN24 UNIVERSAL SILICON NITRIDE (24V)**

Used in Honeywell® Smart Valves™	Mars® 68012
SV9500 SV9500M2603 SV9500M2674 SV9500M2682 SV9501M2528 SV9600 SV9600H SV9401 SV9402 SV9403 SV9501 SV9502 SV9503 SV9601 SV9602	Igniters Direct® AFN643 Packard® IG9500
Johnstone® L41-975	
Surface Igniter® MM643KJ	
Replaces Flame Rod® Assemblies Smart Valves™ 1009524 1149856 42640001 Q3400A Q3400A1016 Q3400A1024 Q3400A1040 Q3450 Q3480 Q3620	

**SIG1100 ROUND UNIVERSAL SILICON CARBIDE**

Amana® 10735002	Dornback® 271W	H.B. Smith® 50018	Johnstone® L37-699 L37-700 L37-812 L37-814 L37-815 L37-816 L40-765	Mor-Flo® 3200618	Norton® 201W 271D 271M 271N 271P 271RS 271W	Robertshaw® 41-238 41-242 41-402 41-403 41-404 41-405 41-407 41-408 41-803	Trane® 3400339P01 B340039P01 B12996P01 B144676P01 B144676P02 B138196P01
Armstrong® 38322B001	Ducane® 20015201	Honeywell® Q4100C9040/U	L37-812 L37-814 L37-815 L37-816	Nordyne®/Tappan®/ Frigidaire®/Philco®/ Intertherm®/Miller®			
Clare Bros® C238 C238-1	Enerco Tech® 10399	Hupp Ind® 9050	L40-765	903110 105141000 RH622286893 632-0770 632-0880 902661 902694 903758 632-3811 632-3540			
Coleman®/ Evcon® 14740511 14740512	Giant P.V.® 526000125 526000025	ICP®/Heil®/Arco Air®/ Comfortmaker®/ Tempstar®/ Keeprite®	L.B. White Co® 120-07549		Raypack® 600915		
Detroit®/ Brant Radiant® 201D	B1172606 B1193939	1096048 1009604 1001344 1380680 1148245	Majestic® 75-92-104 75-92-105		Rheem Rudd® 62-22868-93 62-22441-01 62-22868-82	Superior Fireplace® 94851	
DMO®/Ol- sen®/ECR Ind.® 26789 20834	ZCO-350 John Woods®/ GSW P.V.® 86483	Integra® 6905032 3260618	Metzger® 201N 201W	Norton® 101M 201D 201K 201L 201M 201P	Roberts Gordon® 90434300 90436600 41-409 41-410 41-1090	Surface Igniter® FC007 FC024 FC035 FC046 FC050 FC051 FC067KJ	Viessman® 9302-093 9302-094

## SSN2000 UNIVERSAL SILICON NITRIDE

American Appliance®	Hupp Industries®	Rheem®	White Rogers®
271B	9050	62821-001	21D64-2
American Road Equip.®	ICP®	62-22868-82	767A-301
201W	1009604	62-22868-93	767A-303
Arcoaire®	1096048	Roberts Gordon®	767A-306
1096048	3200618	90434300	767A-310
Armstrong Air®	Igniters Direct®	90436600	767A-311
38322B001	HSIURK120V	Robertshaw®	767A-350
Carrier Corp®	FC007	41-402	767A-353
1380680	Johnstone®	41-403	767A-354
Carlin®	L41-974	41-404	767A-357
871975	L.B. White®	41-405	767A-361
LH33ZS001A	120-07549	41-406	767A-364
LH33ZS002	Majestic®	41-407	767A-365
Clare Bros®	75-92-104	41-408	767A-366
C238	75-92-105	41-409	767A-370
C242	Mars®	41-410	767A-371
Coleman®	67930	41-411	767A-372
1474-051	67931	41-412	767A-373
174-052	67932	41-413	767A-374
Comfortmaker®	Metzger®	41-414	767A-375
1096048	201W	41-801N	767A-376
Comfort Zone®	Mor-Flo®	Snyder General Tempstar®	767A-377
150114-04-01	3200618	380654	767A-382
Detroit Radiator®	3210401	1380672	767A-383
201D	3200618	1380680	767A-384
20015201	Nordyne®	Superior Fireplace®	F767A-357
DMO Industries®	105141000	94851	F767-A361
20834	632-0770	Surface Igniter®	F767-A365
Dornback Furnace®	632-0880	CM067KJ	F767-A366
271W	902661	Tempstar®	Williamson®
Ducane®	902694	1096048	9050
20015201	903110	1148245	York Intl®
Enerco Tech®	FC007	Trane®	025-27766-000
10399	Norton®	340039P01	025-27774-000
Evcon®	201	B138196P01	373-05342-700
1474-051	201D	B144676P01	025-29050-000
1474-052	201J	B144676P02	025-32625-000
Goodman®	201K	B340039P01	025-32626-000
10401009	201L	IGN21	025-33241-000
B1401018S	201M	IGN23	373-05342-700
H.B. Smith®	201N	IGN26	473-12509-001
50018	201R	IGN26	
Heil®	201W	IGN30	
1096048	201Y	IGN34	
Honeywell®	271	Viessman®	
Q4100C9040/U	271D	9302-094	
	271M	Wayne Home Equip®	
	271N	62-22441-01	
	271NM	62-22441-02	
	271P	Weil McLain®	
	271W	511-330-139	
	271Y	511-330-190	
	Perfection	511-330-193	
	Schwank®	White L.B. Co®	
	108803-G1	120-07549	
	Raypack®		
	600915		

## SSN3000 UNIVERSAL SILICON NITRIDE

Amana®	Giant PV®
10735002	526000125
10755002	526000025
B138196P01	GMO Industries®
B144676P02	20834
B340039P01	Goodman®/Janitrol®
B144676P01	B1172606
American Appliance®	B1193939
271B	B1401009
American Standard®	Grimsby Stove®
IGN0030	ZCO-350
American Water Heater®	John Woods® /
6905032	GSW PV®
Arcoaire®	86483
See ICP Armstrong®	71082
383228001	H.B. Smith®
38322B001	50018
Barnett Brass®	9050
661924	101344
661927	1148245
661928	Honeywell®
Carrier®	Q4100C9044/U
LH33ZS001A	Q4100C9070/U
LH33ZS002	Q4100C9072/U
LH33ZS003	Hupp Ind®
LH33ZS004	9050
Clare Bros®	ICP®/Heil®/Arcoaire®/
C238	Keeprite®/Comfortmaker®/
C238-1	Tempstar®/Snyder General®
C242	1009980
Coleman®/Evacon®	1096048
14740511	1009604
14740512	1001344
Detroit®/Brant Radiant®	1380680
14740512	1148145
201D	1096047
DMO®/Olsen®/ECR Ind®	1380654
26789	1380672
20834	1148245
Dornback®	Integra®
271W	6905032
Ducane®	3260618
20015201	Johnstone®
Enerco Tech®	L37-698
10399	L37-699
EZ Flow®	L37-700
62374	L37-812
GE®/Hot Point®	L37-814
WG37X11	L37-816
WG37X34	L.B. White Co®
	120-07549
	Lennox®
	33J3701
	96P01
	36N77
	98P77
	98P78

**SSN3000 UNIVERSAL SILICON NITRIDE**

Majestic®	Robertshaw®/ Uniline®	Trane®	York®
75-92-104	41-238	3400339P01	025-32626-000
75-92-105	41-242	B340039P01	473-12509-001
95-92-104	41-402	B12996P01	373-09154-700
95-92-105	41-403	B144676P01	025-27774-000
	41-404	B144676P02	025-29043-000
<b>Mars®</b>	41-405	B138196P01	025-29050-000
67930	41-407	IGN21	025-27766-000
	41-408	IGN26	025-30277-000
<b>Metzger®</b>	41-409	IGN28	025-32638-002
3200618	41-410	IGN30	025-32625-000
	41-412	IGN34	025-31801-000
<b>Mor-Flo®</b>	41-1090	B144676P01	373-05342-700
6905032	41-402N	B144676P02	025-27766-000
	41-403N	B138196P01	
<b>Nordyne®/ Tappan®</b>	41-404N		
<b>Frigidaire®/ Philco®</b>	41-405N	<b>Trianco Heatmaker®</b>	
<b>Intertherm®/Miller®</b>	41-407N	2600-359	
903110	41-408N		
105141000	41-409N	<b>Viessmann®</b>	
632-0880	41-410N	9302-093	
902661	41-412N	9302-094	
902694			
903758	<b>Surface Igniter®</b>	<b>Wayne Home</b>	
632-3811	FC007	<b>Equipment®</b>	
	FC011	62821-001	
<b>Norton®</b>	FC014	62821-002	
101M	FC018		
201D	FC020	<b>Weil McLain®</b>	
201K	FC021	29074	
201L	FC022	511-330-139	
201M	FC023	511-330-193	
201P	FC024	511-330-190	
201W	FC025		
271M	FC027	<b>Whirlpool®</b>	
271N	FC028	99794323	
271P	FC029	99794328	
271R	FC030		
271RS	FC032	<b>White L.B. Co®</b>	
271W	FC034	120-07549	
201A	FC035		
271A	FC037	<b>White Rogers®</b>	
201R	FC040	767A-301	
201	FC041	767A-303	
271	FC045	767A-306	
271NM	FC046	767A-309	
	FC048	767A-350	
<b>Olsen®</b>	FC050	767A-352	
26789	FC051	767A-353	
		767A-354	
<b>Raypack®</b>	<b>Starlite®</b>	767A-356	
600915	11120-100-1402	767A-364	
	11120-100-1403	767A-365	
<b>Rheem®/ Rudd®</b>	11120-100-1405	767A-366	
62-22868-93	11120-100-1407	767A-370	
62-22441-01	11120-100-1408	767A-371	
62-22868-82	11120-100-1409	767A-372	
<b>Roberts Gordon®</b>	<b>Superior Fireplace®</b>	<b>Williamson®</b>	
90434300	94851	09050	
90436600	<b>Temp Controls®</b>		
	9302-094		

**SSN4000 UNIVERSAL SILICON NITRIDE**

Amana®
10735002
10755002
B138196P01
B144676P02
B340039P01
B144676P01
<b>American Standard®</b>
IGN0030
<b>American Standard®</b>
IGN0030
<b>Arcoaire®</b>
See ICP Armstrong
383322B001
<b>Barnett Brass®</b>
661924
661926
661927
661928
<b>Carrier®</b>
LH33ZS001A
LH33ZS002
LH33ZS003
LH33ZS004
<b>Clare Bros®</b>
C238
C238-1
C242
<b>Coleman® / Evcon®</b>
14740511
14740512
<b>Detroit® / Brant Radiant®</b>
201D
<b>DMO® / Olsen ECR Ind®</b>
26789
20834
<b>Dornback®</b>
271W
<b>Ducane®</b>
20015201
<b>Enerco Tech®</b>
10399
<b>EZ Flow®</b>
62374
<b>GE®/Hot Point®</b>
WG37X11
WG37X34

SSN4000 UNIVERSAL SILICON NITRIDE

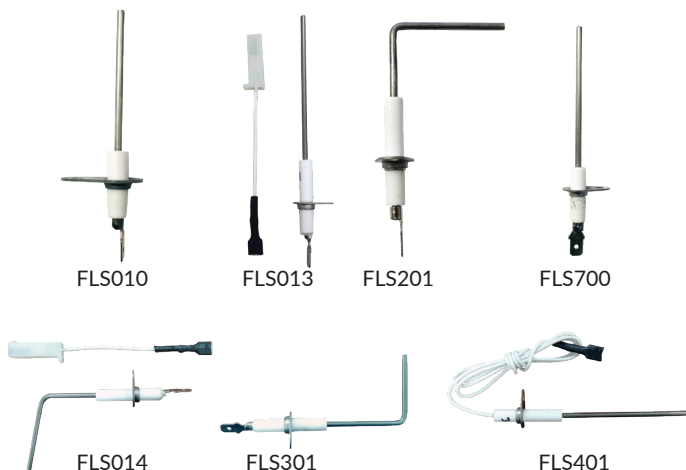
<b>Giant PV®</b>	<b>Johnstone®</b>	<b>Nordyne®/ Tappan®</b>	<b>Olsen®</b>	<b>Snyder General®</b>	<b>Superior Fireplace®</b>
526000125	L37-698	Frigidaire® / Philco®	26789	1009980	94851
FC067	L37-699	Intertherm®/Miller®	<b>Raypack®</b>	1096048	<b>Temp Controls®</b>
626000025	L37-700	903758	50015	1009604	9302-094
<b>GMO Industries®</b>	L37-812	105141000	600915	1001344	<b>Trane®</b>
20834	L37-814	RH622286893	<b>Rheem®/ Rudd®</b>	1380680	3400339P01
<b>Goodman®/Janitrol®</b>	L37-815	632-0770	62-22441-01	1148145	B340039P01
B1193939	L37-816	632-0880	62-22668-93	1096047	B12996P01
B11725-06	L40-765	632245-0	62-212868-82	1380654	B144676P01
B1401009	<b>L.B. White Co®</b>	902661	62-22868-02	1148245	B144676P02
<b>Grimsby Stove®</b>	120-07549	903758	90434300	<b>Starlite®</b>	B138196P01
ZCO-350	<b>Lennox®</b>	632-3811	<b>Roberts Gordon®</b>	11120-100-1402	IGN21
<b>John Woods® /</b>	33J3701	632-3540	90436600	11120-100-1403	IGN23
<b>GSW PV®</b>	96P01	<b>Norton®</b>	<b>Robertshaw®/ Uniline®</b>	11120-100-1405	IGN26
86483	36N77	101M	41-402	11120-100-1407	IGN28
71082	98P77	201D	41-403	11120-100-1408	IGN30
<b>H.B. Smith®</b>	98P78	201K	41-404	11120-100-1409	IGN34
50018	<b>Majestic®</b>	201L	41-405	<b>Surface Igniter®</b>	<b>Trianco Heatmaker®</b>
<b>Honeywell®</b>	75-92-104	201M	41-407	FC007	2600-359
Q3200U1004	75-92-105	201P	41-408	FC024	<b>Viessman®</b>
<b>Hupp Ind®</b>	<b>Metzger®</b>	201W	41-409	FC035	9302-093
9050	201N	271M	41-410	FC046	9302-094
<b>Integra®</b>	201W	271N	41-1090	FC050	<b>Wayne Home Equip®</b>
6905332	<b>Mor-Flo®</b>	271RS	41-402N	FC051	62821-001
3260618	3200618	201A	41-403N	FC055	62821-002
		271A	41-1090		<b>Weil McLain®</b>
		201R	41-404N		29074
		201	41-405N		511-330-139
		271	41-407N		511-330-193
		271NM	41-408N		511-330-190
			41-409N		<b>Whirlpool®</b>
			41-410N		99794323
			41-412N		99794328
			41-802N		

FLAME SENSORS

Flame Sensors can replace many of the popular sensors in today's furnaces that use hot surface or direct spark ignition systems.

- For Hot Surface Ignition (HSI) systems
- Mount on multiple burners, or adjacent to igniter

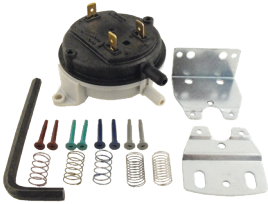
- Use with spark ignition and flame sensing
- Alumina ceramic insulator
- Kanthal flame rod material can withstand 1800°F



SUPCO® Part No.	Substitute For & Part No.
FLS010	Goodman® 0130F00010, B1172606, ICP® 1380687
FLS013	Carrier® LH33WZ514, LH33WZ516, LH680013
FLS014	Carrier® LH33WZ511, LH33WZ515, LH680012, LH680014
FLS201	Goodman® 10735201
FLS301	Rheem® 62-25343-01, Packard® PFS301
FLS401	Mars® 67970, White-Rogers® 760-401, Packard® PFS401
FLS700	York® 025-27773-700, ICP® 1380679

### NS2000031 UNIVERSAL AIR PRESSURE SWITCH

Low Cost, High Accuracy and Reliable Universal Air Pressure Switch that Replaces Many Small Footprint Type Switches



- Senses Positive, Negative or Differential Air Pressure
- Set Point Range: .10" to 10"
- Electrical Ratings: 1/10 hp @ 120 to 277 VAC.  
28 VA Pilot Duty @ 24 VAC,  
125 VA Pilot Duty 120 VAC
- Contact Arrangement: SPDT
- Operating Temperature:  
-40°F to 190°F (-40°C to 88°C)
- UL® & CSA® Approved
- 2-Year Warranty

### ADJUSTABLE STYLE RSS SERIES AIR PRESSURE SWITCHES

Ideal for Residential and Light Commercial Furnace, Electronic Air Cleaner and Humidifier Applications.



- Convenient Contractor Kits for After-Market Installation
- Adjustable Set Points
- Factory Set to Activate on Pressure Rise
- Electrical Ratings: 5 Amp Non-inductive  
120 to 277 VAC 1 Amp Pilot Duty (120 va) @ 120 VAC
- Contact Arrangement: SPDT
- Operating Temperature Range: -40°F to 190°F  
(-40°C to 88°C)
- UL® & CSA® Approved
- 2-Year Warranty

Part No.	Range ( In. of Water Column)
RSS495011	0.25" to 1.0"
RSS498013	1.0" to 4.0"

### AFS222121 ADJUSTABLE STYLE AIR PRESSURE SWITCH

General Purpose Switch for HVAC, Direct Digital Control (DDC) and Energy Management Applications



- Senses Positive, Negative or Differential Air Pressure
- Set Point Range: 0.05" to 12.0" w.c.
- Electrical Ratings: 300 VA Pilot Duty  
@ 115 to 277 VAC, 15 Amp Non-inductive  
to 277 VAC, 60 Hz.
- Contact Arrangement: SPDT
- Operating Temperature: -40°F to 180°F  
(-40°C to 82°C)
- UL® & CSA® Approved
- 2-Year Warranty

### AIR PRESSURE SWITCH CROSS REFERENCE

SUPCO® Part No.	Competitor Name	Competitor Part No.
RSS495011	Robertshaw®	2374-495
RSS498013	Robertshaw®	2374-498
AFS222121	Robertshaw® White Rodgers®	2374-410 770-1
NS2000031	Honeywell®	IS2 Series IS22010051F5052
ES1024C	Magic Pak®	JMP-102-4C
ES1024STL	Magic Pak®	JMP-102-4C



60T ELECTRICAL RATING:  
TYPICAL ELECTRICAL RATINGS TEMP RANGE: -40°F TO 350°F

**GENERAL PURPOSE LIMITS L & LD SERIES**

- Open on Rise
- Close when Temperature Differential is Reached
- 1/4" Quick Disconnect Terminals
- Use 60T Electrical Ratings

Volts (VAC)	Resistive (Non-Inductive)	Motor Rating (Inductive)		
		Full Load	Locked Rotor	Pilot Duty
120	25A	14A	72A	125VA
240	25A	10A	60A	125VA

350°F Max Ambient Temperature

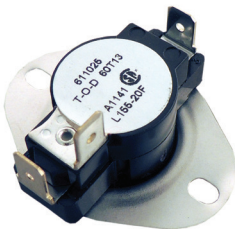
**"L" SERIES, SINGLE POLE- SINGLE THROW STYLE 60T11**



Part No.	°Diff.	Open (°F)	Close (°F)
L120	10	120	110
L125	10	125	115
L130	15	130	115
L135	15	135	120
L140	20	140	120
L145	20	145	125
L150	20	150	130
L155	20	155	135
L160	20	160	140
L165	20	165	145
L170	20	170	150
L175	20	175	155
L180-20	20	180	160
L180-40	40	180	140

Part No.	°Diff.	Open (°F)	Close (°F)
L190	40	190	150
L200	40	200	160
L205	40	205	165
L225	40	225	185
L240	40	240	200
L250	40	250	210
L260	40	260	220
L270	40	270	230
L290	40	290	250
L300	40	300	260
L320	40	320	280
L340	40	340	300

**"LD" SERIES SINGLE POLE-DOUBLE THROW STYLE 60T13**



Part No.	Description	Open (°F)	Close (°F)	Diff.
LD120	SPDT Thermostats	120	105	15
LD135	SPDT Thermostats	135	120	15
LD140	SPDT Thermostats	140	120	20
LD145	SPDT Thermostats	145	125	20
LD155	SPDT Thermostats	155	135	20
LD170	SPDT Thermostats	170	150	20
LD200	SPDT Thermostats	200	160	40
LD225	SPDT Thermostats	225	185	40
LD270	SPDT Thermostats	270	230	40

**ADJUSTABLE AT SERIES**



- Series Covers Almost 95% of Heater and Dryer Applications
- Dial Knob
- 40° Adjustable Range
- 1/4" Quick Connect Terminals
- Use 60T Electrical Ratings

**OPEN ON TEMPERATURE ADJUSTABLE THERMOSTATS STYLE 74T11**

Part No.	Adjustable Range (°F)	Adjustable Range (°F)	Diff.
AT012	135	175	20
AT013	175	215	40
AT014	210	250	40
AT015	250	290	40

**CLOSE ON TEMPERATURE ADJUSTABLE AIRFLOW THERMOSTATS STYLE 74T11**

Part No.	Adjustable Range (°F)	Adjustable Range (°F)	Diff.
AT021	90	130	20
AT022	140	180	20



**60T ELECTRICAL RATING:**  
**TYPICAL ELECTRICAL RATINGS TEMP RANGE: -40°F TO 350°F**

Volts (VAC)	Resistive (Non-Inductive)	Motor Rating (Inductive)		
		Full Load	Locked Rotor	Pilot Duty
120	25A	14A	72A	125VA
240	25A	10A	60A	125VA

350°F Max Ambient Temperature

**FAN CONTROL\* CLOSE ON RISE STYLE 60T12**



Part No.	Description	Cut Out (°F)	Cut In (°F)	Diff.
SHF90	Fan	80	90	10
SHF110	Fan	90	110	20
SHF110DC	Fan - Deep Cup	90	110	20
SHF120	Fan	110	120	10
SHF140	Fan	120	140	20
SHF250	Fan	220	250	30

\*Adapter Flange Plate included with each thermostat.

**LIMIT CONTROL\* OPEN ON RISE STLE 60T11**



Part No.	Description	Cut Out (°F)	Cut In (°F)	Diff.
SHL120	Limit - Open on Rise	120	110	10
SHL140	Limit - Open on Rise	140	100	40
SHL150	Limit - Open on Rise	150	110	40
SHL160	Limit - Open on Rise	160	120	40
SHL170	Limit - Open on Rise	170	130	40
SHL180	Limit - Open on Rise	180	140	40
SHL190	Limit - Open on Rise	190	150	40
SHL200	Limit - Open on Rise	200	160	40
SHL230	Limit - Open on Rise	230	190	40
SHL250	Limit - Open on Rise	250	210	40

\*Adapter Flange Plate included with each thermostat.

**MANUAL RESET LIMIT CONTROL\* OPEN ON RISE STYLE 60T15**



Part No.	Description	Open (°F)	Close
SHM125	Limit - Open on Rise	125	Manual
SHM130	Limit - Open on Rise	130	Manual
SHM160	Limit - Open on Rise	160	Manual
SHM170	Limit - Open on Rise	170	Manual
SHM180	Limit - Open on Rise	180	Manual

Part No.	Description	Open (°F)	Close
SHM200	Limit - Open on Rise	200	Manual
SHM210	Limit - Open on Rise	210	Manual
SHM290	Limit - Open on Rise	290	Manual
SHM350	Limit - Open on Rise	350	Manual

\*Adapter Flange Plate included with each thermostat.

**HVAC FLUSH MOUNT STAGING THERMOSTATS STYLE 60TX21**



Part No.	Description	Open (°F)	Close (°F)	Diff.
FL60	HVAC Staging Thermostat	60	45	15

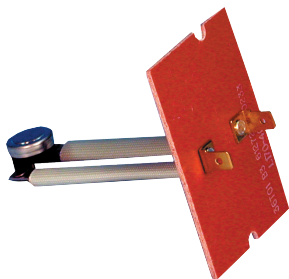




36T ELECTRICAL RATING:  
TYPICAL ELECTRICAL RATINGS TEMP RANGE: -40°F TO 350°F

**GAS FURNACE LIMITS AND PLENUM THERMOSTATS**

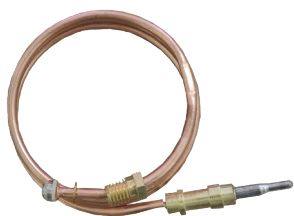
- Direct OEM Replacements
- Economical
- Use 36T Electrical Ratings
- Style 36TX01B
- 350°F Max Ambient Temperature



Volts (VAC)	Resistive (Non-Inductive)	Motor Rating (Inductive)		
		Full Load	Locked Rotor	Pilot Duty
120	15A	3A	12A	125VA
240	10A	1.5A	6A	125VA

Part No.	Description	Open	Close	Diff.	Board Width	Board Height	Insertion Length
SHL501	L170-40 SPST	170°	130°	40°	1.88"	2.8"	3.12"
SHL502	L180-30 SPST	180°	150°	30°	1.88"	2.8"	3.12"
SHL503	L190-40 SPST	190°	150°	40°	1.88"	2.8"	3.12"
SHL504	L240-40 SPST	240°	200°	40°	1.88"	2.8"	3.12"
SHL505	L140-40 SPST	140°	100°	40°	1.88"	2.8"	1.87"
SHL506	L170-40 SPST	170°	130°	40°	1.88"	2.8"	1.87"
SHL507	L140-30 SPST	140°	110°	30°	1.88"	2.8"	3.12"
SHL508	L190-20 SPST	190°	170°	20°	1.88"	2.8"	3.12"
SHL509	L240-30 SPST	240°	210°	30°	1.88"	2.8"	3.12"
SHL510	L150-20 SPST	150°	130°	20°	1.625"	1.44"	3.12"
SHL511	L160-20 SPST	160°	140°	20°	1.625"	1.44"	3.12"
SHL512	L170-20 SPST	170°	150°	20°	1.625"	1.44"	3.12"
SHL513	L170-40 SPST	170°	130°	40°	1.88"	2.94"	3.12"
SHL514	L180-40 SPST	180°	140°	40°	1.88"	2.94"	3.12"
SHL515	L200-40 SPST	200°	160°	40°	1.88"	2.94"	3.12"
SHL516	L210-40 SPST	210°	170°	40°	1.88"	2.94"	3.12"
SHL517	L220-50 SPST	220°	170°	50°	1.88"	2.94"	3.12"
SHL518	L250-40 SPST	250°	210°	40°	1.88"	2.94"	3.12"
SHL519	L155-30 SPST	155°	125°	30°	1.88"	2.8"	7.12"
SHL520	L100-20 SPST	100°	80°	20°	1.88"	2.8"	7"
SHL521	L200-20 SPST	200°	180°	20°	1.88"	2.8"	7"
SHL522	L160-20 SPST	160°	140°	20°	1.88"	2.8"	7"
SHL523	L130-20 SPST	130°	110°	20°	1.88"	2.8"	7"
SHL524	L170-20 SPST	170°	150°	20°	1.88"	2.8"	7"
SHL525	L180-20 SPST	180°	160°	20°	1.88"	2.8"	7"

**TH181955 THERMOCOUPLE**



- Designed to meet or exceed OEM specifications
- Single wire, metric thread
- Used on Vanguard® Units
- 24"
- Fits Gas Log Fireplaces

**TH181975 THERMOCOUPLE**



- Designed to meet or exceed OEM specifications
- Single wire, metric thread
- Used on York® and Nordyne® units
- 39"

GAS FURNACE LIMITS AND PLENUM THERMOSTATS CROSS REFERENCE

SUPCO® Part No.	Carrier®, Bryant®, BDP®, Day & Night®, Payne®	Janitrol®, Goodman®, Amana®, GMC®	Lennox®, Air-Ease®, Armstrong®, Concord®, Magic Chef®	Corsair®, Rheem®, Ruud®, Weather King®	Trane®	York®
SHL501	HH12ZA174A HH127A176A P331-2203			47-21711-06		025-29041-007
SHL502	HH12ZA178A	B1370001				
SHL503	HH12ZA189 HH12ZB190 HH12ZA193A P331-2205			47-21711-03		025-29041-012
SHL504	HH12ZA240 HH12ZA252A P331-2217					
SHL505	HH12ZB140					
SHL506	HH12ZB170				SWT1258	
SHL507	HH12ZA140		87F16			025-29041-005
SHL508	HH12ZB190 HH12ZA193 HH12ZA189 P331-2005	B1370913			SWT1260	
SHL509	HH12ZB240 HH12ZA240 HH12ZA252 P331-2217	B1370903				
SHL510	HH12ZB150					
SHL511	HH12ZB160					025-29041-004
SHL512	HH12ZB170		26H66			
SHL513			37H73			
SHL514	HH12ZB180		49L03			025-29031-711
SHL515	HH12ZB200 HH12ZA199 HH12ZA201					025-29041-006
SHL516	HH12ZB210				SWT1263	
SHL517	HH12ZB220 HH12ZA219 HH12ZA223 48NHT042 620BE				SWT1273	
SHL518	HH12ZB250 HH12ZA251 P331-2208	B1370012S			SWT1261 SWT1272	
SHL519		B1370006				
SHL520				47-21711-01		
SHL521				47-21711-04		
SHL522		B1370908S		47-21711-07		
SHL523				47-21711-08		
SHL524				47-21711-10		
SHL525				47-21711-11		



**36T ELECTRICAL RATING:**  
TYPICAL ELECTRICAL RATINGS TEMP RANGE: -40°F TO 350°F

**ROLLOUT SWITCHES**

- Auto and Manual Reset
- Offered in a Broad Temperature Range to Cover Most Heating Applications

Volts (VAC)	Resistive (Non-Inductive)	Motor Rating (Inductive)		
		Full Load	Locked Rotor	Pilot Duty
120	15A	3A	12A	125VA
240	10A	1.5A	6A	125VA

350°F Max Ambient Temperature

**SMALL FLUSH MOUNT SPST LIMIT THERMOSTATS STYLE 36TXE21 (FLUSH MOUNT AUTOMATIC ROLLOUT)**



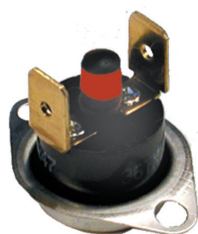
Part No.	Terminals	Cut Out (°F)	Cut In (°F)	Diff.
SLF210HA	Horizontal 1/4"	210	170	40
SLF222VA	Vertical 1/4"	222	182	40
SLF230HA	Horizontal 1/4"	230	190	40
SLF250HA	Horizontal 1/4"	250	200	50

**AUTOMATIC ROLLOUTS SPST LIMIT THERMOSTATS STYLE 36TX11**



Part No.	Terminals	Cut Out (°F)	Cut In (°F)	Diff.
SLS140	45° angle 1/4"	140	100	40
SLS150	45° angle 1/4"	150	110	40
SLS160	45° angle 1/4"	160	120	40
SLS170	45° angle 1/4"	170	130	40
SLS180	45° angle 1/4"	180	140	40
SLS200	45° angle 1/4"	200	160	40
SLS300	45° angle 1/4"	300	250	50

**MANUAL ROLLOUTS SPST LIMIT THERMOSTATS STYLE 36TX16**



Part No.	Terminals	Cut Out (°F)	Cut In (°F)	Part No.	Terminals	Cut Out (°F)	Cut In (°F)
SRL130	Vertical 1/4"	130	Manual	SRL250	Vertical 1/4"	250	Manual
SRL135	Vertical 1/4"	135	Manual	SRL260	Vertical 1/4"	260	Manual
SRL220	Vertical 1/4"	220	Manual	SRL300	Vertical 1/4"	300	Manual
SRL230	Vertical 1/4"	230	Manual	SRL350	Vertical 1/4"	350	Manual
SRL240	Vertical 1/4"	240	Manual				

**SRL SERIES CROSS REFERENCE**

SUPCO Part No.	Replaces
SRL130	Rheem®/Ruud Weatherking® 47-22453-01
SRL135	Rheem®/Ruud Weatherking® 47-22453-02
SRL220	Nordyne® 626354
SRL230	Nordyne® 626353
SRL240	Nordyne® 626355
SRL250	Nordyne® 626352

SUPCO® Part No.	Replaces
SRL260	Nordyne® 626350
SRL300	Nordyne® 626343 Rheem®/Ruud Weatherking® 47-22861-02
SRL350	Goodman® B13701-54



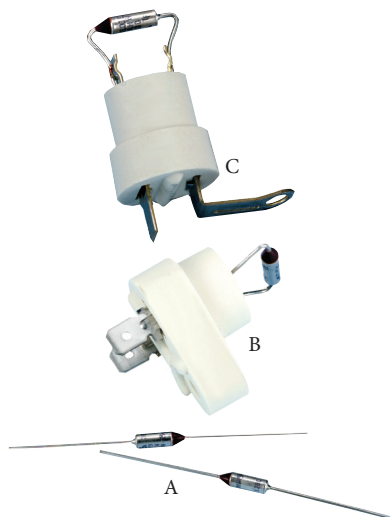
**SFPC FREEZE PROTECTION CONTROL STYLE 37TV32**



- Protects Air Conditioning Evaporator Coil from Freezing
- Opens 35°F/Close 50°F
- Fits 7/8" O.D. Tubing
- Replaces: Trol-A-Temp FPC
- Includes Clip to Fit 7/8" O.D. Tubing
- 350°F Max Ambient Temperature

Voltage (VAC)	Motor Rating (Inductive)			
	Resistive Amps	Full Load	Locked Rotor	Pilot Duty
120	10	5.8	34.8	125VA
240	5	2.9	17.4	125VA

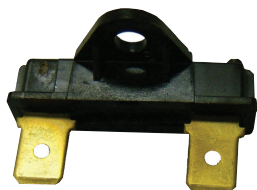
**THERMAL CUT OUTS**



Part No. 15 Amp Series 1	Part No. 25 Amp Series 2	Open Temp °C	Open Temp °F	Style
	STC8170	77	170	A
STC4228		109	228	A
	STC8242	117	242	A
STC4257		125	257	A
STC4283	STC8283	139	283	A
STC4300		149	300	A
STC4333		167	333	A

Series 1 Maximum Wattage 1800W @ 120V/2400W @ 240  
 Series 2 Maximum Wattage 1800W @ 120V/6000W @ 240

Part No. 15 Amp Series 1	Part No. 25 Amp Series 2	Open Temp °C	Open Temp °F	Style
	STC4358	184	363	A
STC4438		226	438	A
	STC4468	242	468	A
STC5257		125	257	B
STC5300		149	300	B
STC5333		167	333	B
STC5377		192	377	B
STC6257		125	257	C
	STC86283	139	283	C
STC6300		149	300	C
STC6333		167	333	C
	STC86377	192	377	C



Part No.	Terminals	°C	°F	Style
STF4170	QC. 1/4"	77	170	36T
STF4230	QC. 1/4"	110	230	36T
STF4291B	QC. 3/16"	144	291	36T

Maximum Wattage 1800W @ 120V/2400W @ 240



Part No.	Description	Where Used
T1121	2 to 1 Terminal Adapter	1/4" QC Female to 2 Male 1/4" QC Chair Terminal
T1122	2 to 1 Terminal Adapter	1/4" QC Female to 2 Male 1/4" QC Side by Side Terminal
T1123	Screw to Terminal Adapter	8 - 10 Stud to 1/4" QC Terminal
T1124	Terminal to Screw Adapter	1/4" QC Female to Screw Right Angle Terminal
T1125	2 to 1 Terminal Adapter	1/4" QC Female to 1/4" QC Male Piggyback Terminal

**PRESSURE SWITCHES**

Manual Reset & Automatic Reset High, Low & Condenser Fan Cycling Pressure Switches

- Life Cycles @ RLA 100,000 Average
- Maximum LRA 36 Amps



**Temperatures**

Ambient: 20°F to 176°F (-30°C to 80°C)

Fluid: 60°F to 250°F (-50°C to 120°C)

**Pressure Ranges**

Working: 0 to 650 PSI, Bursting: 5,000 PSI

Connection: 1/4" SAE Female Flare With Valve Core Depressor

Wire Leads: UL1015 18 AWG/18" Length



Volts	RLA Amps
12 to 28 VDC/VAC	10 Amps
48 VDC/VAC	5 Amps
110 to 120 VDC/VAC	5.8 Amps
208 to 240 VDC/VAC	2.9 Amps

**LOW PRESSURE OPEN ON PRESSURE DROP**

SUPCO® Part No.	Open PSI (Cut Out)	Close PSI (Cut In)	Tolerance +/- PSI	Mars®	Johnson Controls®	Ranco®	Robertshaw®	R410A Application
SLP0520	5	20	5	33329	P100AC1C	MPL7001	3101001	
SLP0530	5	30	5	43342	N/A	N/A	3100002/MG201132	
SLP1025	10	25	5	33330	P100AP201C	MPL7011	3100050	
SLP1032	10	32	5	33330	P100AP201C	MPL7011	3100050	X
SLP1535	15	35	5	43371	P100AC2	MPL7002	3100001/MG201026	X
SLP2045	20	45	5	43345	N/A	N/A	3100003/MG201133	
SLP2550	25	50	5	43372	N/A	MPL7012	MG212033	X
SLP2565	25	65	5	33336/43347	N/A	N/A	3101002	
SLP2580	25	80	5	33363/43348	N/A	MPL7003	3101003/3100051	
SLP3560	35	60	5	43349	N/A	MPL7004	3100004/MG201593	
SLP4560	45	60	5	43351	P100AP2C	MPL7005	N/A	
SLP4080	40	80	5	33364/43350	N/A	MPL7014	3101005/3100052	
SLP5090	50	90	5	33339/43374	N/A	N/A	N/A	X
SLP75100	75	100	5	33342/43353	N/A	N/A	N/A	X
SLP90120	90	120	5	43375	N/A	N/A	N/A	X

**HIGH PRESSURE OPEN ON PRESSURE RISE**

SUPCO® Part No.	Open PSI	Close PSI	Tolerance	Mars®	Johnstone Controls®	Ranco®	Robertshaw®	R410A Application
SHP200150	200	150	15	33353	N/A	N/A	N/A	
SHP250150	250	150	15	33354/43322	N/A	N/A	N/A	
SHP250180	250	180	15		N/A	N/A	N/A	
SHP275195	275	195	15	33310/43324	P100CC9C	MPH7102	3100-112	
SHP300200	300	200	15	33355/43325	N/A	MPH7103	N/A	
SHP325225	325	225	15	43326	N/A	MPH7104	N/A	
SHP325230	325	230	15	33313	N/A	N/A	N/A	
SHP350250	350	250	15	33356/33316/43327	N/A	MPH71053101201/3100150		
SHP375265	375	265	15	33319/43328	N/A	MPH7106	3100111	
SHP400200	400	200	15	33357/43329	N/A	N/A	3100152	
SHP400280	400	280	15	33322/43330	N/A	N/A	N/A	
SHP400300	400	300	15	33358/33370	P100CA1C/P100CP1C	MPH7107	3101202/3100151/MG21-112	
SHP425300	425	300	15	33325/43332	N/A	N/A	N/A	
SHP425325	425	325	15	43333	P100CA2C/P100CP2C	MPH7108	3100100/3100203/MG211046	
SHP450250	450	250	15	33359/43334	N/A	N/A	N/A	
SHP480380	480	380	15	N/A	N/A	N/A	N/A	
SHP550450	550	450	15	N/A	P100CE11D	N/A	N/A	X
SHP600475	600	475	15	33361/43335	N/A	N/A	N/A	
SHP610420	610	420	15	43366/43376	N/A	N/A	N/A	
SHP665565	665	565	15	N/A	P100CP85D	N/A	N/A	X

MANUAL HIGH PRESSURE OPEN ON PRESSURE RISE

SUPCO® Part No.	Open PSI	Close PSI	Tolerance	Mars®	Johnson Controls®	Ranco®	Robershaw®	R410A Application
SMR375	375	Manual	15	43312	P100DC3C	MPH7109	N/A	
SMR410	410	Manual	15	33365/43313	P100DA1C	MPH7110	3101301/3100103	
SMR440	440	Manual	15	33352/43315	N/A	N/A	3100104	
SMR575	575	Manual	15	43368	P100DA86D	N/A	N/A	X
SMR610	610	Manual	15	43369	N/A	N/A	N/A	X
SMR630	630	Manual	15	N/A	P100DA81C/D	N/A	N/A	X

FAN CYCLE CLOSE ON PRESSURE RISEP

SUPCO® Part No.	Open PSI	Close PSI	Tolerance	Mars®	Johnson Controls®	Ranco®	Robershaw®	R410A Application
SFC75120	75	120	15	43301	N/A	MPF7006	N/A	
SFC110170	110	170	15	43302	N/A	MPF7007	N/A	
SFC125265	125	265	15	33340/43303	N/A	N/A	N/A	
SFC210275	210	275	15	33341	N/A	MPF7009	3101101/3100079	
SFC150225	150	225	15	43304	P100AP3C	MPF7008	N/A	
SFC170250	170	250	15	N/A	P100AP4C	N/A	N/A	
SFC200240	200	240	15	N/A	N/A	N/A	3100080	
SFC200365	200	365	15	N/A	N/A	N/A	N/A	X
SFC300400	300	400	15	43307	N/A	MPF7010	N/A	X
SFC275350	275	350	15					

**PROTECT WHAT MATTERS TO YOUR CUSTOMERS.**

**Remote equipment monitoring:**

- **Advanced features**
- **Affordable pricing**



**SEE OUR COMPLETE FULL GAUGE OFFERING ON PAGES 105-106**

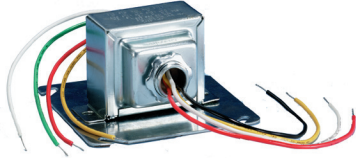
**UNIVERSAL FAN CENTERS**

- DPDT Plug-in Style Relay (90340)
- 40 VA Transformer
- Mounts Directly to 4" x 4" Electrical Box
- Color Coded Wiring for Easy Installation
- Universal FC4031 Includes Multi-tap Primary Voltages for All Applications, Reduces Inventory



SUPCO® Part No.	VA	Primary VAC	Secondary VAC	hp	Contacts	Jard®	Mars®	Steveco®
FC4011	40	120	24	3/4	DPDT	4011FC	24013	90-113
FC4031	40	120/208/240	24	3/4	DPDT	4031FC	24010	90-130

**T45 UNIVERSAL TRANSFORMER**



- 50/60 Hz.
- Enclosed Frame - Plate, Foot or Knock-out Mount

Part No.	Primary VAC	Secondary VAC	VA	H	W	D	MW
T45	120/208/240	2.5, 8, 12, 16 & 24	48	2 1/16"	3 1/4"	2 3/4"	2 13/16"

NOTE: Transformer is furnished with a 4" x 4" mounting plate, wire nuts, 1/2" conduit and 8" leads.



**CONTROL TRANSFORMERS**

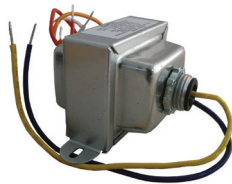
**FOOT MOUNT TRANSFORMERS SPECIFICATIONS**



Part No.	Primary V	Secondary V	Output VA	Breaker/Fuse	Mount Type	Agency
SXT100R	120/208/240/480	24	100	Breaker	Foot	UR®
SXT101	120/208/240	2.5/12/24	40	Fuse	Foot	UR®
SXT105	120/208/240	24	40	No	Foot	UR®
SXT114	120/208/240	24	20	No	Foot	UR® CSA®
SXT115*	120/208/240	24	40	No	Foot	UR® CSA®
SXT116	120	24	40	No	Foot	UR® CSA®
SXT79R	120/208/240/480	24	75	Breaker	Foot	UR®

\* Includes Metal Shroud.

**MULTI-MOUNT TRANSFORMERS SPECIFICATIONS**



Part No.	Primary V	Secondary V	Output VA	Breaker/Fuse	Mount Type
SXT106	120/208/240	24	40	No	Multi
SXT111	120/208/240	2.5/12/24	40	Fuse	Multi
SXT113	208/240	40	40	No	Multi
SXT148	120/208/240	2.5/12/24	48	No	Multi
SXT150	120/208/240	24	50	Fuse	Multi

SUPCO® Part No.	Jard®	Mars®	UEI®	White Rogers®	Honeywell®
SXT101	4032F	50355	UET101	N/A	N/A
SXT105	4031F	50354	UET105	90-T40F3	AT40A1121, AT40A1139, AT40B1214
SXT114	2031F	50351	UET114	N/A	AT20A1123
SXT115	4031F	50354	UET115	90-T40F3	AT40A1121, AT40A1139, AT40B1214
SXT116	4011F	50352	N/A	90-T40F1	AT40A1121, AT40B1206
SXT79R	7541C	50321	UET79R	90-T75C3	AT88A1005, AT88A1021, AT88A1047
SXT100R	10041C	50341	UET100R	N/A	N/A

SUPCO® Part No.	Jard®	Mars®	UEI®	White Rogers®	Honeywell®
SXT106	4031M	50304	N/A	90-T40M3	AT40A1018, AT72D1683, AT72D1691, AT140A1018
SXT111	5032M	50333	UET111	N/A	N/A
SXT113	4021M	50303	UET113	90-T40M2	AT72D1691, AT140A1026
SXT148	5032M	50333	N/A	N/A	N/A
SXT150	5031M	50314	UET150	90-T50M3	AT87A1106, AT87A1007, AT87A1049, AT87A1056, AT150A1007

UNIT BEARING WATT MOTORS



For Commercial and Domestic Refrigeration Equipment, Room and Hood Ventilators, Room Heaters, Evaporative Coolers and Various Other Equipment.

- Cast Aluminum Housing Up to 16 Watts
- Cast Iron Housing for 35 to 50 Watts
- Single Speed, 1550 RPM
- Single Rotation
- Rotation is Determined by Viewing Opposite Shaft End (OSE)
- 50/60 Hz
- Totally Enclosed
- Overload Protected
- Permanent Lubrication
- Sleeve Bearings
- Universal Mounting
- Threaded Mounting Holes
- Hardware Included
- UL® Approved

ALUMINUM UNIT BEARING



Part No.	Watts	Volts	Amps	Rotation	Shaft Diam. (In.)	Shaft Length (In.)
SM5109	2	120	0.28	CWOSE	1/4 Threaded	1/2
SM5211	4	120	0.36	CWOSE	1/4 Threaded	1/2
SM5212	4	120	0.32	CCWOSE	1/4 Threaded	1/2
SM5221	4	230	0.16	CWOSE	1/4 Threaded	1/2
SM5222	4	230	0.16	CCWOSE	1/4 Threaded	1/2
SM5311	6	120	0.52	CWOSE	1/4 Threaded	1/2
SM5312	6	120	0.43	CCWOSE	1/4 Threaded	1/2
SM5411	9	120	0.60	CWOSE	1/4 Threaded	1/2
SM5412	9	120	0.64	CCWOSE	1/4 Threaded	1/2
SM5421	9	230	0.32	CWOSE	1/4 Threaded	1/2
SM5422	9	230	0.32	CCWOSE	1/4 Threaded	1/2
SM5811	16	115	0.92	CWOSE	1/4 Threaded	1/2
SM5812	16	115	0.92	CCWOSE	1/4 Threaded	1/2
SM5821	16	230	0.48	CWOSE	1/4 Threaded	1/2
SM5822	16	230	0.48	CCWOSE	1/4 Threaded	1/2

CAST IRON UNIT BEARING



Part No.	Watts	Volts	Amps	Rotation	Shaft Diam (In)	Shaft Length (In.)
SM351	35	120	1.4	CWOSE	1/4 Threaded	1/2
SM352	35	120	1.4	CCWOSE	1/4 Threaded	1/2
SM353	35	230	0.7	CWOSE	1/4 Threaded	1/2
SM354	35	230	0.7	CCWOSE	1/4 Threaded	1/2
SM501	50	120	1.7	CWOSE	3/8 Smooth Flatted	1/2
SM502	50	120	1.7	CCWOSE	3/8 Smooth Flatted	1/2
SM503	50	230	0.85	CWOSE	3/8 Smooth Flatted	1/2
SM504	50	230	0.85	CCWOSE	3/8 Smooth Flatted	1/2

SUPCO Unit Bearing Motors are Manufactured with the Highest Quality Components. They are Manufactured and Tested to Meet Our High Standards and Specifications.



**SM600 SERIES EXACT REPLACEMENT & UTILITY MOTOR KITS**



- Versatile Replacement for All “C” Frame and 3 1/2” Round Style Motors
- Impedance Protected
- SM670, SM672 and SM673 Include Fan Blades
- SM675 is Thermal Protected
- SM675 Includes Fan Blade FB550 Only
- Motor Kits Include Complete Hardware and Mounting Kits

Part No.	Type	Volts AC	RPM	Shaft Dimensions (In.)	Stack Size (In.)	Rotation (Reversible)
SM670	Sleeve	120	3000	3/16 x 1 1/4	5/8	CW/CCW
SM671	Sleeve	120	3000	3/16 x 1 1/4	5/8	CW/CCW
SM672	Sleeve	240	3000	3/16 x 1 1/4	5/8	CW/CCW
SM673	Sleeve	120	3000/1550	3/16 x 1 1/4	5/8	CW/CCW
SM675	Sleeve	120/240	3000	3/16 x 2 3/8	1	CW/CCW
SM690C	Sleeve	120	3000	7/16 x 1 1/4	5/8	CW/CCW

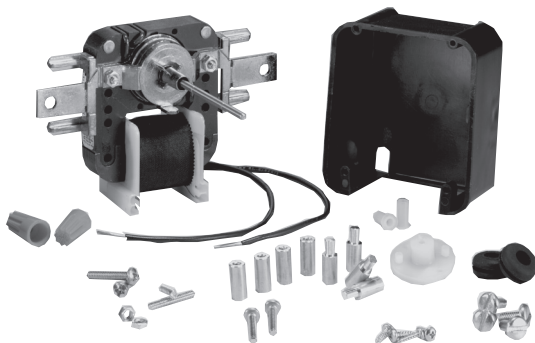
**SM6700B MOTOR KIT ASSEMBLY**



- Replaces Acme Miami® 700
- OEM Replacement for Bohn®, Heatcraft®, Uppco®, Singer®, GE® 33 Series
- Kit Includes Reversible Motor, Three Fan Blades, Hardware Kit and Instructions

Volts	Hertz	Amps	RPM	Shaft Size (In.)	Stack Size (In.)	Bearing Type
120	60	.55	3000	3/16 x 1 1/4	5/8	Sleeve
<b>SM6700B Replacement Fan Blades 3/16” Hub</b>						
FB402				4”, CW, 5 Wing		
FB455 (Bohn® 5101B)				5 9/16”, CCW, 5 Wing		
FB550				5 1/2”, CCW, 4 Wing		

**SM999 UNIVERSAL EVAPORATOR FAN MOTOR KIT - 120 VAC & SM998 UNIVERSAL EVAPORATOR FAN MOTOR KIT - 220 VAC**

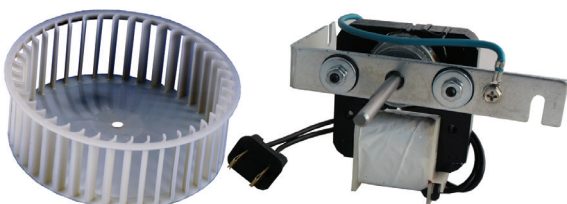


- SM999
- Replaces Over 450 Different Evaporator Type Motors
  - Prefastened Multi Fit, Break Off Mounting Bracket
  - Break Off 2” Motor Shaft with Breakaways at 1/2” and 1 1/2”
  - Includes All Mounting Accessories and Hardware
  - Reversible Rotation
  - Single Speed

Part No.	Description
SM999	120 VAC, 3000 RPM, 1/200 hp, .31 Amp Impedance Protected
SM998	220 VAC, 3000 RPM, 1/200 hp, .31 Amp Impedance Protected

- SM998
- Includes the Same Features, Benefits, Applications and Specifications as the SM999, Except it Operates on 220 VAC 50/60 Hz.
  - Direct Replacement for the Mars® 90998

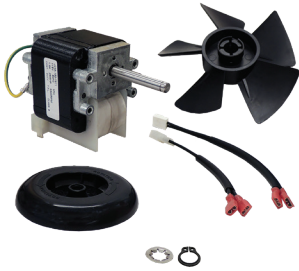
**SM140-40A BLOWER FAN ASSEMBLY**



- Direct Replacement Kit for Nutone® Bath Fans
- Replaces Nutone® Motor P/N K5895 and Kit P/N K5894
- Kit Includes Single Speed Motor, 3 3/4” x 2” Blower Wheel and Mounting Bracket
- Motor Includes 6” Wire Leads with Molded Plug

Part No.	Speed	RPM	Volts	Amps	Rotation	Nutone®
SM140-40A	1	2400	115	0.9	CCWSE	K5894 Motor Kit

**SM4753 DRAFT INDUCER MOTOR**



Shaded pole, ball bearing motor can replace the popular Carrier® HC21ZE117 motor.

- C-frame motor design
- Overload protection
- Single speed
- Cable w/ connectors and plastic fan blade included
- Automatic Restarts

Volts AC	Amps	RPM	Dual Shaft	Rotation
115V	1.8 FLA	3300	1" & 1-7/8"	CW

**SM1127 UNIVERSAL EVAPORATOR FAN MOTOR**

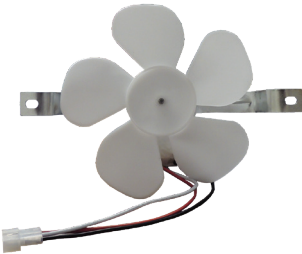


Universal 3.3" Commercial Refrigeration Motor Replaces Over 100 OEM Shaded Pole Evaporator Fan Motors.

- Thermal Protection
- Open Ventilation
- Sleeve Bearing

Volts AC	Amps	RPM	Rotation
115V/230V	1.1/0.6	1550	Reversible

**SM2248 EXHAUST FAN MOTOR W/ FAN BLADE**



- Designed to meet or exceed OEM specifications
- 6.5" diameter fan blade included
- Replaces: Broan® 97012248

**MB55 MOTOR BRACKET MOUNTING KIT - 3 LEGS**



- Designed For Direct Drive Blower Motors Using the Flexible Bracket Mounting Arrangement
- Grommets & Eyelets Included

Specifications	
Motor Diameter	5.5", Bolt Circle 9" & 10.18"

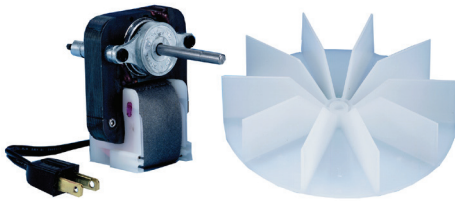
**MB554 MOTOR BRACKET MOUNTING KIT - 4 LEGS**



- Flexible Bracket
- Grommets & Sleeves Included

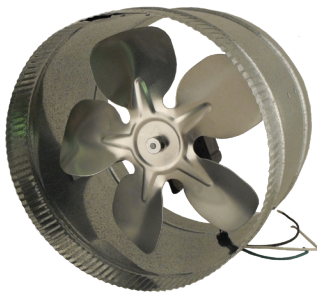
Specifications	
Motor Diameter	5.5", Bolt Circle 9" & 10.18"

FAN HOOD MOTORS



Part No.	Volts	Speeds	RPM	Rotation	Shaft Diam (In.)	Shaft Length (In.)
SM550	120	1	3000	CCW	7/32" Flat	1 3/4"
SM550P2	120	1	3000	CCW	7/32" Flat	1 3/4"
SM551	120	2	3000/1640	CW	7/32" Flat	1 7/16"
SM552	120	1	3000	CCW	7/32" Flat	1 1/4"
SM553	120	1	3000	CCW	7/32" Flat	1 3/4"
SM554	120	2	3000/1500	CCW	7/32" Flat	1 7/16"
SM555	120	1	3000	CCW	7/32" Flat	2 3/8"

DUCT BOOSTERS



Part No.	Dimensions	Fan Blade	Voltage	Motor Ratings	CFM
DB6	6" x 6"	5.25", 1950 rpm	115V 60Hz	.35 A, 30 Watts	250
DB6-220	6" x 6"	5.25", 1950 rpm	220V 50Hz	.25 A, 30 Watts	250
DB8	8" x 8"	7", 1750 rpm	115V 60Hz	3750@208	500
DB8-220	8" x 8"	7", 1750 rpm	220V 50Hz	.45 A, 60 Watts	500
DB10	8" x 10"	8", 1300 rpm	115V 60Hz	1.5 A, 120 Watts	650
DB12	9" x 12"	10", 1300 rpm	115V 60Hz	1.5 A, 120 Watts	800

SM5113 2.5 WATT CONDENSER MOTOR



- Hardware included
- UL® Approved
- Universal mounting
- Threaded mounting holes
- Sleeve bearings
- Permanent lubrication
- Overload protected
- Totally enclosed
- 50/60Hz
- Rotation determined by viewing opposite shaft end
- Single rotation
- Single speed, 1550 RPM
- Cast aluminum housing up to 16 watts

Part No.	Watts	Volts	Amps	Rotation	Shaft Diam (In.)	Shaft Length (In.)
SM5113	2.5	120	.28	CWOSE	1/4" Threaded	1/2

EXACT REPLACEMENT PLASTIC IMPELLERS



- Broan® & Nutone® Exact Replacement Impellers

SUPCO® Part No.	Replaces	Blade O.D.	Hole I.D.
SB001	Nutone® 68920	4 5/8"	.181
FB460	Broan® 9910379H	4 9/16"	.218

PLASTIC BLOWER WHEELS



Part No.	Shaft Rotation	Bottom Diameter	Depth	Top Diameter	Replaces
FB250	1/8" CW	2 1/2"	1"	2 11/16"	
FB590	1/4" CW	5 3/4"	2"	6 1/8"	Nutone® 59000A

PLASTIC VENT HOOD FAN BLADES



- Ducted & Non Ducted Vent Hoods

Part No.	Shaft	Diameter	No. Blades	Rotation	Pitch	Volume
FB660	7/32"	6 5/8"	5	CW	25°	High
FB665	7/32"	7/32"	5	CW	12°	Standard

Use with SM500 series or SM700 series that have 7/32" w/ flat shaft.  
Replaces Nutone 68929300 and many Broan blades.

PLASTIC FAN BLADES - GENERAL PURPOSE



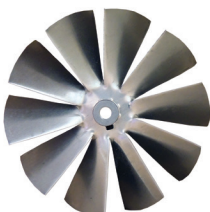
- Celcon Plastic Construction
- Light Weight Design Reduces Bearing Wear & Vibrations
- 3 1/2" to 7" Diameter Sizes Available (1/2" increments)
- Integral Hub Available in 1/8", 3/16", 1/4" & 5/16" Sizes
- Color Coded Rotation White = CW Gray = CCW
- Eliminates Bent or Misaligned Blades
- Low Air Noise

Part No.	Shaft	Diameter	No. Blades	Rotation
FB350	3/16"	3 1/2"	4	CW
FB401	1/8"	4"	5	CW
FB402	3/16"	4"	5	CW
FB403	1/8"	4"	5	CCW
FB404	3/16"	4"	5	CCW
FB501	3/16"	5"	5	CW
FB504	3/16"	5"	5	CCW
FB550	3/16"	5"	4	CCW

Part No.	Shaft	Diameter	No. Blades	Rotation
FB601	3/16"	6"	6	CW
FB604	3/16"	6"	4	CCW
FB650	3/16"	6 1/2"	5	CW
FB651	1/4"	6 1/2"	5	CW
FB702	5/16"	7"	5	CW
FB703	1/4"	7"	5	CCW

ALUMINUM FAN BLADES - GENERAL PURPOSE



- 22 Gauge Aluminum Alloy Construction
- Light Weight Design Reduces Bearing Wear & Vibration
- Slotted Set Screw Hub Sizes 3/16", 7/32" & 1/4"

Part No.	Shaft	Diameter	No. Blades	Rotation	Pitch
FB152	3/16"	4"	10	CCW	35°
FB159	1/4"	4 1/2"	10	CCW	40°
FB180	1/4"	6"	4	CW	20°

**PLASTIC FAN BLADES - DIRECT REPLACEMENT & HUB TYPE**



- Available in Hub or Shaft Mount 1/8", 3/16"

Part No.	Shaft	Diameter	No. Blades	Rotation	Replaces
FB450	1/8"	4 1/2"	5	CCW	GE® WR60X114
FB455	3/16"	5 9/16"	5	CCW	Bohn® 5101B

**ALUMINUM CONDENSER FAN BLADES**



- Aluminum Construction
- 6" to 10" Diameter
- 5 Blades

Part No.	Diameter	No. Blades	Rotation	Pitch
FB101	6"	5	CW	30°
FB103	7"	5	CCW	20°
FB104	7"	5	CW	20°
FB105	8"	5	CCW	20°
FB106	8"	5	CW	20°
FB107	8 3/4"	5	CW	20°
FB108	10"	5	CCW	29°
FB109	10"	5	CW	22°

**LBK500 LINEBACKER® MOTOR PROTECTOR**



The LBK500 protects compressors and fans by ensuring "out-of-tolerance" capacitors are identified and notification is provided to confirm, and replace the capacitor.

- Extends the life of fan motor and compressor
- Prevents thermal damage
- Operates on 110 VAC and 208-240 VAC
- Use on 1 to 5 ton units

- Easy connections
- Connection wires included
- One year warranty
- UL® Recognized
- Operating Input Voltage 22 to 29 VAC

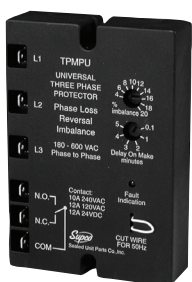
**TPMP2 THREE PHASE MOTOR PROTECTOR**



- Low Cost Three Phase Motor Protection
- Easy Installation
- Compact Design
- Monitors and Protects Against Phase Loss and Imbalance
- Operating Temperature -40°F to 167°F (-40°C to 75°C)
- 1/4" Male Spade Terminal Connections

Specifications	
Input Line Voltage	208 - 277 VAC
Control Voltage	18 - 240 VAC
Frequency	50/60 Hz
Imbalance	Fixed 7%
Total Power Consumption	3 VA Maximum
Contact Type	N.O. & N.C. Type C
Resistive	5 AMP 240 VAC/10 AMP 120 VAC
Fire Resistive Plastic	UL-94 VO
Dimensions	2.35" x 2.43" x 1.1" (59.7 x 61.7 x 27.9 mm)
Weight	2 oz. (54 gr)

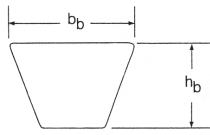
**TPMPU UNIVERSAL 3-PHASE MOTOR PROTECTOR**



- Low Cost Universal Three Phase Motor Protection
- Easy Installation
- Minimizes Inventory
- Monitors and Protects Against Phase Loss, Reversal and Imbalance
- Response Time 80 Milliseconds Maximum
- Bright LED For On and Fault Indications

Specifications	
Input Line Voltage	180 - 600 VAC
Control Voltage	18 - 240 VAC
Frequency	50/60 Hz (cut wire for Hz)
Imbalance	Adjustable +4 to 20%
Total Power Consumption	3 VA Maximum
Contact Ratings	10 AMP SPDT
Resistive	10 AMP 240 VAC, 12 AMP 120 VAC/24 VAC
Inductive	4.5 AMP 230 VAC- Cos. 0.0.6

MULTI-PLUS DUAL BRAND V-BELTS



Belt Section (Pitch)	B (Angle)	BB (Width)	HB (Height)
3L	40°	.38 in	.22 in
A, AX	40°	.50 in	.34 in
B, BX	40°	.66 in	.41 in

Clearly Identifying RMA Classic Part Number and Dimensionally Equivalent FHP Number, the Multi-plus Belt is Designed to Reduce Total V-Belt Investment.

- Consolidate Belts Sizes into a Single Belt Line
- Able to Handle Classic and FHP Drive Applications

“3L” Section FHP V Belts

- 3/8 inch top width
- 7/32 inch thick

“A” Section Classical V Belts

- 1/2 inch top width
- 11/32 inch thick
- Dual brand A & 4L

“B” Section Classical V Belts

- 21/32 inch top width
- 13/32 inch thick
- Dual brand B & 5L

“BX” Section Cogged Multiple V Belts

- 21/32 inch top width
- 13/32 inch thick

“AX” Section Cogged Multiple V Belts

- 1/2 inch top width
- 11/32 inch thick

Part No.	Cross to L's	Approx. Outside Length	Part No.	Cross to L's	Approx. Outside Length	Part No.	Cross to L's	Approx. Outside Length	Part No.	Cross to L's	Approx. Outside Length	Part No.	Cross to L's	Approx. Outside Length
3L140		14	A100	4L1020	102	A44	4L460	46	A80	4L820	82	B38	5L410	41
3L160		16	A105		107	A45	4L470	47	A81	4L830	83	B39	5L420	42
3L170		17	A110		112	A46	4L480	48	A82	4L840	84	B40	5L430	43
3L180		18	A112		114	A47	4L490	49	A83	4L850	85	B41	5L440	44
3L190		19	A116		118	A48	4L500	50	A84	4L860	86	B42	5L450	45
3L200		20	A120		122	A49	4L510	51	A85	4L870	87	B43	5L460	46
3L210		21	A124		126	A50	4L520	52	A86	4L880	88	B44	5L470	47
3L220		22	A128		130	A51	4L530	53	A87	4L890	89	B45	5L480	48
3L230		23	A136		138	A52	4L540	54	A88	4L900	90	B46	5L490	49
3L240		24	A144		146	A53	4L550	55	A89	4L910	91	B47	5L500	50
3L250		25	A158		160	A54	4L560	56	A90	4L920	92	B48	5L510	51
3L260		26	A18	4L200	20	A55	4L570	57	A91	4L930	93	B49	5L520	52
3L270		27	A19	4L210	21	A56	4L580	58	A92	4L940	94	B50	5L530	53
3L280		28	A20	4L220	22	A57	4L590	59	A93	4L950	95	B51	5L540	54
3L290		29	A21	4L230	23	A58	4L600	60	A94	4L960	96	B52	5L550	55
3L300		30	A22	4L240	24	A59	4L610	61	A95	4L970	97	B53	5L560	56
3L310		31	A23	4L250	25	A60	4L620	62	A96	4L980	98	B54	5L570	57
3L320		32	A24	4L260	26	A61	4L630	63	A97	4L990	99	B55	5L580	58
3L330		33	A25	4L270	27	A62	4L640	64	A98	4L1000	100	B56	5L590	59
3L340		34	A26	4L280	28	A63	4L650	65	A99	4L1010	101	B57	5L600	60
3L350		35	A27	4L290	29	A64	4L660	66	B23	5L260	26	B58	5L610	61
3L360		36	A28	4L300	30	A65	4L670	67	B24	5L270	27	B59	5L620	62
3L370		37	A29	4L310	31	A66	4L680	68	B25	5L280	28	B60	5L630	63
3L380		38	A30	4L320	32	A67	4L690	69	B26	5L290	29	B61	5L640	64
3L390		39	A31	4L330	33	A68	4L700	70	B27	5L300	30	B62	5L650	65
3L400		40	A32	4L340	34	A69	4L710	71	B28	5L310	31	B63	5L660	66
3L410		41	A33	4L350	35	A70	4L720	72	B29	5L320	32	B64	5L670	67
3L420		42	A34	4L360	36	A71	4L730	73	B30	5L330	33	B65	5L680	68
3L470		47	A35	4L370	37	A72	4L740	74	B31	5L340	34	B66	5L690	69
			A36	4L380	38	A73	4L750	75	B32	5L350	35	B67	5L700	70
			A37	4L390	39	A74	4L760	76	B33	5L360	36	B68	5L710	71
			A38	4L400	40	A75	4L770	77	B34	5L370	37	B69	5L720	72
			A39	4L410	41	A76	4L780	78	B35	5L380	38	B70	5L730	73
			A40	4L420	42	A77	4L790	79	B36	5L390	39	B71	5L740	74
			A41	4L430	43	A78	4L800	80	B37	5L400	40	B72	5L750	75
			A42	4L440	44	A79	4L810	81	B38	5L410	41	B73	5L760	76
			A43	4L450	45									

MULTI-PLUS DUAL BRAND V-BELTS

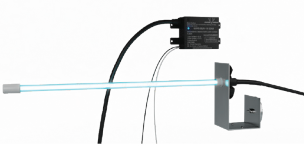


Part No.	Cross to L's	Approx. Outside Length	Part No.	Approx. Outside Length	Part No.	Approx. Outside Length	Part No.	Approx. Outside Length
B74	5L770	77	B144	147	BX70	73	AX30	32
B75	5L780	78	B152	155	BX71	74	AX31	33
B76	5L790	79	B158	161	BX75	78	AX32	34
B77	5L800	80	B162	165	BX77	80	AX33	35
B78	5L810	81	B195	198	BX78	81	AX34	36
B79	5L820	82	B210	213	BX79	82	AX35	37
B80	5L830	83	B225	228	BX80	83	AX36	38
B81	5L840	84	B240	243	BX81	84	AX37	39
B82	5L850	85	B255	258	BX82	85	AX38	40
B83	5L860	86	B270	273	BX83	86	AX39	41
B85	5L880	88	B285	288	BX84	87	AX40	42
B86	5L890	89	B300	303	BX85	88	AX41	43
B87	5L900	90	B315	318	BX86	89	AX42	44
B88	5L910	91	B330	333	BX90	93	AX43	45
B89	5L920	92	B360	363	BX93	96	AX44	46
B90	5L930	93	BX32	35	BX95	98	AX45	47
B91	5L940	94	BX34	37	BX96	99	AX46	48
B92	5L950	95	BX35	38	BX97	100	AX47	49
B93	5L960	96	BX36	39	BX99	102	AX48	50
B94	5L970	97	BX37	40	BX100	103	AX49	51
B95	5L980	98	BX38	41	BX103	106	AX50	52
B96	5L990	99	BX40	43	BX105	108	AX51	53
B97	5L1000	100	BX41	44	BX112	115	AX52	54
B98	5L1010	101	BX42	45	BX116	119	AX53	55
B99	5L1020	102	BX43	46	BX120	123	AX54	56
B101		104	BX44	47	BX124	127	AX55	57
B102		105	BX45	48	BX128	131	AX56	58
B104		107	BX46	49	BX133	136	AX58	60
B105		108	BX48	51	BX136	139	AX59	61
B106		109	BX50	53	BX144	147	AX60	62
B107		110	BX51	54	BX150	153	AX61	63
B110		113	BX52	55	BX158	161	AX62	64
B111		114	BX53	56	BX162	165	AX63	65
B112		115	BX54	57	BX173	176	AX64	66
B114		117	BX55	58	BX180	183	AX65	67
B115		118	BX56	59	BX195	198	AX66	68
B116		119	BX57	60	BX210	213	AX67	69
B118		121	BX58	61	BX225	228	AX69	71
B120		123	BX59	62	BX240	243	AX70	72
B124		127	BX60	63	BX255	258	AX71	73
B126		129	BX61	64	BX270	273	AX75	77
B128		131	BX62	65	BX300	303	AX78	80
B130		133	BX63	66	AX22	24	AX80	82
B133		136	BX64	67	AX23	25	AX92	94
B134		137	BX65	68	AX25	27	AX96	98
B135		138	BX66	69	AX26	28	AX110	112
B136		139	BX67	70	AX28	30		
B140		143	BX68	71	AX29	31		



The Clear Blue units create pure air naturally, and adds an additional cleaning element to a standard filtration system. Through innovative, safe, and environmentally friendly practices, these UV air treatment systems cleanse residential air.

**UUV-CBA CLEAR BLUE® ADVANCE UV SYSTEM**



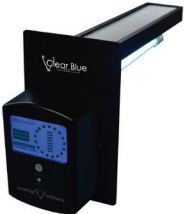
- 16" UV-C Germicidal Coil Cleaner
- Magnetic mounting bracket w/ multiple options
- Destroys mold and associated odors
- Control microbial growth
- Improves HVAC efficiency and reduces maintenance
- Improves indoor air quality
- Fully enclosed and potted aluminum ballast housing
- Over / under voltage indication
- Lamp and ballast fault indication

**UUV-CBM CLEAR BLUE® ADVANCE UV SYSTEM**



- 16" UV-C Germicidal Coil Cleaner
- Magnetic mounting bracket w/ multiple options
- Destroys mold and associated odors
- Control microbial growth
- Improves HVAC efficiency and reduces maintenance
- Improves indoor air quality
- Fully enclosed and potted aluminum ballast housing
- Over / under voltage indication
- Lamp and ballast fault indication

**UUV-CBM-PCO CLEAR BLUE® ADVANCE UV SYSTEM**



- 16" UV-C Germicidal Coil Cleaner
- Magnetic mounting bracket w/ multiple options
- Destroys mold and associated odors
- Control microbial growth
- Improves HVAC efficiency and reduces maintenance
- Improves indoor air quality
- Fully enclosed and potted aluminum ballast housing
- Over / under voltage indication
- Lamp and ballast fault indication



For effective elimination of harmful micro-organisms and pathogens in ice machines, easily integrate Clear Blue® Arctic UV systems into any ice machine. Choose from a single or dual lamp system, depending on the size of the application.

**UUVS-CBAR & UUVS-CBAR-D UV SURFACE DISINFECTION FOR ICE MACHINES**



UUVS-CBAR  
Single Lamp Germicidal (UVC)  
Surface Cleaner



UUVS-CBAR-D  
Dual Lamp Germicidal (UVC)  
Surface Cleaner

- Reduces bacteria and mold growth by up to 99.9%
- Reduces time and labor costs
- Reduces maintenance calls
- Natural, generates no pollution and does not use harmful chemicals
- One or two lamp configurations available
- Continuous germicidal operation
- Effective within 24 hours
- 8" shatterproof UVC lamp rated for two years
- Protects against liability from pathogen infected ice
- Compatible with most major ice machine brands
- Optional interlock safety switch protects from UV exposure
- Highly efficient program start electronic ballast
- Fully potted ballast with aluminum housing
- Lifetime Ballast Warranty
- One Year Lamp Warranty



**CLEAR BLUE® ACCESSORIES**



Part No.	Description
UUV-LP160T5	Clear Blue Replacement Bulb
UUVS-CBAR-LMP	Replacement Lamp for UUVS-CBAR

**IAQ SERIES**

IAQ Series Measures Carbon Dioxide, Temperature and Humidity with Dew Point and Wet Bulb. Ideal for a Quality Diagnosis, they can be used in Identifying Sick Building Syndrome due to High Levels of CO2. Choose From a Hand Held Meter or Wall Mounted/Desktop Monitor. Both Come Equipped with a Triple LCD Display and Programmable Alarms.

- Non-Dispersive Infrared (NDIR) Sensor
- Visible/Audible (80db) CO2 Alarm
- Min./Max., Average Recall
- Alarm Output Relay
- Long Time Drift Compensation
- TWA (Time-Weighted Average) 8 Hours
- STEL (Short-Term-Exposure Limit) 15 Minutes

**IAQ50 WALL MOUNTED INDOOR AIR QUALITY MONITOR**



- Desktop or Wall Mounting
- Alarm Output Relay
- 12V Power Adapter (Included)

**IAQ55 HANDHELD INDOOR AIR QUALITY MONITOR**



- Portable
- Backlight LCD Display Function
- Auto Shut-Off

	IAQ55	IAQ50
Range	0-2000ppm 2001-9999 (out of scale)	0-2000ppm 2001-9999 (out of scale)
Resolution	1ppm	1ppm
Accuracy	+75ppm+5%rdg (0-2000 ppm) Not specified for out of scale	+50ppm+5%rdg (0-2000 ppm) Not specified for out of scale
Pressure Dependence	+1.6% reading per kPa deviation from normal pressure, 100kPa	+1.6% reading per kPa deviation from normal pressure, 100kPa
<b>TEMPERATURE</b>		
Range	14 to 140°F (-10.0 to 60.0°C)	14 to 140°F (-10.0 to 60.0°C)
Resolution	0.1°F (0.1°C)	0.1°F (0.1°C)
Accuracy	+/- 0.9°F (± 0.6°C)	+/- 0.9°F (± 0.6°C)
<b>HUMIDITY</b>		
Range	0.0 to 99% Non-Condensing	0.0 to 99% Non-Condensing
Resolution	0.1%	0.1%
Accuracy	+/-3% (10 to 90%) +/-5% (others)	+/-3% (10 to 90%) +/-5% (others)
<b>GENERAL</b>		
Warm Up	30 seconds	30 seconds
Operating	32°F to 122°F (0 to 50°C) 0-95% RH Non-Condensing	32°F to 122°F (0 to 50°C) 0-95% RH Non-Condensing
Storage	4°F to 140°F (-20 to 60°C) 0-99% RH Non-Condensing	4°F to 140°F (-20 to 60°C) 0-99% RH Non-Condensing
Power	4 AA batteries (included)	12V adapter (included)
Battery Life	N/A	24 hours (Alkaline)

**CO1000 CARBON MONOXIDE METER**



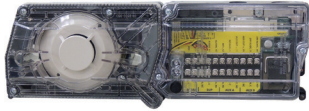
- Backlit LCD
- Automatic Calibration
- Max Hold and Data Hold
- Auto Power Off
- Audible Alarm
- From 35ppm to 200ppm, the Beeper Sounds Periodically
- Above 200ppm, the Beeper Sounds Continuously

Specifications	
Measurement Range	0 to 1000ppm
Measurement Resolution	1ppm
Accuracy	5% or ± 10 ppm (0-100 ppm) 10% ± 10 ppm (>100ppm)
Warm Up Period	< 2 Seconds
Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	-22 to 140°F (-30 to 60°C)
Operating Humidity	0-99% Relative Humidity (non-condensing)
Battery	9V (included)
Auto Power Off	After 15 minutes of inactivity
Sensor Type	Stabilized electrochemical Gas-specific (CO)
Typical Sensor Life	3 years



InnovairFlex® combines an impressive collection of innovations designed to save you time and money and provide the flexibility you need in the field. An adjustable housing overcomes mounting constraints. Plug-in, tool-free sampling tubes speed installation. The front cover test/reset button simplifies test/maintenance. With these and many more, InnovairFlex is reshaping duct smoke detection.

**D4120 PHOTOELECTRIC DUCT SMOKE DETECTOR**



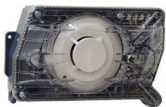
- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC
- 2 Form C Auxiliary

**D4120W WATERTIGHT PHOTOELECTRIC DUCT SMOKE DETECTOR**



- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- NEMA 4
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC
- 2 Form C Auxiliary

**D4S PHOTOELECTRIC SENSOR-ONLY COMPONENT**



- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC

**D4P120 POWER-BOARD-ONLY COMPONENT**



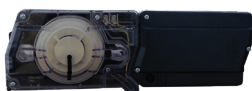
- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC
- 2 Form C Auxiliary

**2D51 PHOTOELECTRIC NO-FLOW/LOW-FLOW SMOKE DETECTOR**



- 4-wire
- 0-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC w/ B210LP
- 75mA max.
- 1 Form A & 1 Form C Auxiliary Relay

**DUCTSD LOW-FLOW DUCT SMOKE DETECTOR**



- 4 wire Photo-electric, integrated low-flow technology
- Versatile mounting options, square or rectangular configuration
- Cover integrated smoke test port
- High contrast terminal designations

**P48-21-00 END CAP FOR METAL SAMPLING TUBES**





InnovairFlex® combines an impressive collection of innovations designed to save you time and money and provide the flexibility you need in the field. An adjustable housing overcomes mounting constraints. Plug-in, tool-free sampling tubes speed installation. The front cover test/reset button simplifies test/maintenance. With these and many more, InnovairFlex is reshaping duct smoke detection.

**RTS2 MULTISIGNALING ACCESSORY WITHOUT STROBE**



- 20-29 VDC
- UL® S2522

**RTS2-AOS MULTI-SIGNALING ACCESSORY WITH ADD-ON STROBE**



- 20-29 VDC
- UL® S2522

**RTS151 REMOTE TEST STATION**



- 2.8-32 VDC
- Alarm LED
- UL® S2522

**RA100Z REMOTE ANNUNCIATOR**



- 3.1-3.2 VDC
- UL® S2522

**APA151 REMOTE ANNUNCIATOR WITH PIEZO ALERT**



- 16-33 VDC
- UL® S4011

**RTS151KEY REMOTE TEST STATION WITH KEY TEST/RESET**



- UL® S2522

**2-WIRE HORN STROBE**



- Plug-in Design
- Tamper Resistant Construction
- Selectable 12V or 24V Operation
- Field Selectable Candela Settings
- Rotary Switch for Horn Tone & Volume
- Universal Mounting Plate

Part No.	P2W-P	P2WK-P
Use	Indoor	Outdoor
Operating Temperature	32°F to 120°F (0°C to 49°C)	-40°F to 151°F

**DST SAMPLING TUBES**



Part No.	Description
DST1	Ducts Up to 1 Ft.
DST1.5	Ducts 1 to 2 Ft.
DST2	Ducts up to 2 Ft.
DST2.5	Ducts 2 to 3 Ft.
DST3	Ducts 2 to 4 Ft.

Part No.	Description
DST5	Ducts 4 to 8 Ft.
DST10	Ducts 8 to 12 Ft.
DST22	Ducts 22 in.
DST34	Ducts 34 in.
DST42	Ducts 42 In.

**AOS ADD-ON STROBE**



Accessories add functionality to the duct smoke detection system by allowing quick, convenient inspections at eye level and effective audible and visual notification options.

**ETX INNOVAIR FLEX EXHAUST TUBE**



- Exhaust tube for ducts up to 1'

**REPLACEMENT FILTERS**



Part No.	Description
F36-05-00	Air Filter
F36-09-11	Dust Filter

**M02-04-00 SENSOR TESTING MAGNET**



- Accessory magnet for testing sensor head

**PR-1 MULTI-VOLTAGE RELAY**



- Mounting track and hardware
- Terminal strip field wiring connections
- Reliable and robust design
- Easy and flexible installation
- Activation LED's
- Multi-voltage operation

**T80-0003-001 EXHAUST TUBE**



- Exhaust tube for ducts

**MHW MINI HORN**



- 12 and 24 volt operation
- High and low volume settings
- Temporal and non-temporal tones
- Mounts to single gang back box
- Compatible with MDLsync module
- Ceiling or wall mounting
- 1W LED Flashlight
- Red warning light
- Strong, pivoting magnetic base
- 100,000 hour LED life
- Fold-away, swivel hook

**Specifications**

Dimensions	4.6"L x 2.9"W x .45"D
Wire Gauge	12 to 18AWG
Nominal Voltage	12 to 24VDC
Humidity Range	10 to 93%RH Non-condensing
Operating Temperature	32°F to 120°F (0°C to 49°C)

**DH SERIES DUCT HEATER COIL KITS**

- Nichrome Heavy Gauge Construction
- Welded Terminal Bolts for Low Resistance and Longer Life
- Complete Kits Contain Close Wound Coil to Fit Many Applications, Two Male and Two Female Bushings, Terminal Screws, Nuts and Washers to Make a Proper Repair. The DH500 & DH500FC Kits Include the SUPCO STC In Line Series Thermal Cutoffs.



Part No.	Mars®	Close Wound Length	Wattage @ Volts	Wattage @ Volts
DH500*	34601	28"	5000@240	3750@208
DH500-3	34608	23"	5000@480	
DH500FC*		12"	5000@240	3750@208
DH501	34608	22"	3500@240	2600@208
DH502-4		18"	2000@277	
DH506	34630	26 1/2"	4000@240	
DH507		18 1/2"	3000@240	2250@208
DH520	34652	31 1/2"	6600@240	5000@208
DH534	34656	26"	6000@240	4500@208
DH560		28"	5600@240	4200@208
DH602		44.62"	5000@240	3750@208

\*Includes 300°F Thermal Cutoff SUPCO p/n STC4300

**DB SERIES DUCT BOOSTERS**

For Increased Air Flow in Both Hot and Cold Forced Air Systems, the DB Series Duct Boosters Provide the Easy, Economical Solution.

- Easy Installation
- Energy Savings
- Fits in Round, Square or Rectangular Ducts
- Operates Only When You Want It
- 1 Year Warranty
- Motor is Thermally Protected
- Motor Thermal Fuse: 150°F (64°C)
- Maximum Operating Temperature: 140°F (60°C)
- Maximum Airstream Temperature: 135°F (58°C)

Conforms to UL Standard 507



Part No.	Dimensions	Fan Blade	Voltage	Motor Ratings	CFM
DB6	6" x 6"	5.25", 1950 rpm	115V 60Hz	.35 A, 30 Watts	250
DB6-220	6" x 6"	5.25", 1950 rpm	220V 50Hz	.25 A, 30 Watts	250
DB8	8" x 8"	7", 1750 rpm	115V 60Hz	3750@208	500
DB8-220	8" x 8"	7", 1750 rpm	220V 50Hz	.45 A, 60 Watts	500
DB10	8" x 10"	8", 1300 rpm	115V 60Hz	1.5 A, 120 Watts	650
DB12	9" x 12"	10", 1300 rpm	115V 60Hz	1.5 A, 120 Watts	800



A Division Of SUPCO®

All models offer our “quiet switching” mechanical switch design and require no additional sub-base for heating, cooling or heating/cooling installation.

**MECHANICAL HEATING / COOLING THERMOSTATS**



43004A - Horizontal



43005A - Vertical

- For Use with Most 4 or 5 Wire 24 VAC Systems and Single-stage Heat Pumps
- Adjustable Heat Anticipator
- Terminations: RC, RH, W, Y, G, O, B

Part No.	Description
43004A	Horizontal Thermostat
43005A	Vertical Thermostat

**43054 DIGITAL NON-PROGRAMMABLE THERMOSTATS**



- For Conventional Systems and Single-Stage Heat Pumps with Blue Back Light
- Latching Relays For System Compatibility
  - Soft Touch Keypad
  - Low Battery Indicator
  - Blue Backlight
  - Easy, Front Load Battery Access
  - 2 AA Batteries Included

- °F/°C Selector
- Electronic Digital Accuracy
- Large, Easy-to-Read LCD
- Filter Change Indicator
- No Programming Required
- No Leveling Required
- 3 Year Warranty
- Bimetal Freeze Protection

Specifications	
Electrical Information	20-30 Vac, 50/60 Hz.
Current Draws	0.1 to 1.5 Amps
Temperature Set Range	45°F to 95°F (7°C to 35°C)
Operating Differential	+/- 1°F
Compressor Protection	4 Min. Delay on Break
Terminations	RC/O, RH/B, Y, W, G, R

Compatible With
24 VAC Heat/Cool, Heat Only or Cool Only Systems
Gas, Electric or Oil Systems
Millivolt Systems
2-wire Hydronic Systems

**43154 DIGITAL PROGRAMMABLE THERMOSTAT**



- 5 Day/2 Day Programming, 4 Periods Per Day, For Conventional Heat/Cool or Single-Stage Heat Pump Systems
- Latching Relays For System Compatibility
  - Soft Touch Keypad
  - Low Battery Indicator
  - Blue Backlight
  - Easy, Front Load Battery Access
  - 2 AA Batteries Included

- Adjustable Cycle Rate
- °F/°C Selector
- Pre-programmed
- Easy “Front Load” Battery Access
- Mechanical Low Temperature Protection
- Filter Monitor
- Up-opening Door
- Two-stage Low Battery Warning with Fail Safe Protection
- 3 Year Warranty

Specifications	
Electrical Information	20-30 Vac, 50/60 Hz.
Current Draws	0.1 to 1.5 Amps
Temperature Set Range	45°F to 95°F (7°C to 35°C)
Operating Differential	+/- 1°F
Compressor Protection	4 Min. Delay on Break
Terminations	G,RC,RH,Y/O,WB,Y1

Compatible With
24 VAC Heat/Cool, Heat Only or Cool Only Systems
Gas, Electric or Oil Systems
Millivolt Systems
2-wire Hydronic Systems
Most Single-stage Heat Pumps



A Division Of SUPCO®

E3 SERIES UNIVERSAL THERMOSTATS



53100 NON-PROGRAMMABLE THERMOSTAT



- Easy Install Features
- Color Coded Wire Terminals
- Built-in Level Bulb
- Break Away Guides for Less Common Terminals
- Screwless Terminals
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3-year Warranty

Specifications	
Electrical Information	20-30 Vac
Current Draws	0.1 to 1.5 Amps
Temperature Set Range	45°F to 95°F (7°C to 35°C)
Operating Differential	+/- 1°F
Compressor Protection	3.5 Min. Delay on Break
Terminations	Rh, RC/R,Y,G,W,L,O,B,AE/W2,Y2,C,A

Compatible With
2 Heat/2 Cool Systems
Gas Standing Pilot and Electric Ignition
Gas and Oil Fired Boilers
Electric Heat
Millivolt
Hot Water Gravity and Zoned
Hot Water Motor Valves (3-wire)
Hot Water Solenoid Valves (2-wire)
Heat Pumps with Electric/Gas/Oil Auxiliary
Air/Ground/Hydro Exchanger

53200 5/1/1 DAY PROGRAMMABLE THERMOSTAT



- Easy Install Features
- Color Coded Wire Terminals
- Built-in Level Bulb
- Break Away Guides for Less Common Terminals
- Screwless Terminals
- 25% Fewer Programming Steps
- Save Away™ Override
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3-year Warranty

Specifications	
Electrical Information	20-30 Vac
Current Draws	0.1 to 1.5 Amps
Temperature Set Range	45°F to 95°F (7°C to 35°C)
Operating Differential	+/- 1°F
Compressor Protection	3.5 Min. Delay on Break
Terminations	Rh, RC/R,Y,G,W,L,O,B,AE/W2,Y2,C,A

Compatible With
2 Heat/2 Cool Systems
Gas Standing Pilot and Electric Ignition
Gas and Oil Fired Boilers
Electric Heat
Millivolt
Hot Water Gravity and Zoned
Hot Water Motor Valves (3-wire)
Hot Water Solenoid Valves (2-wire)
Heat Pumps with Electric/Gas/Oil Auxiliary
Air/Ground/Hydro Exchanger



A Division Of SUPCO®

E3 SERIES UNIVERSAL THERMOSTATS



53300 7 DAY PROGRAMMABLE



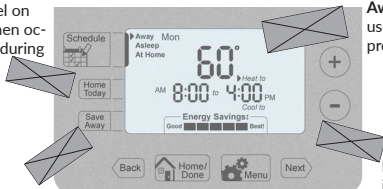
- Easy Install Features
- Color Coded Wire Terminals
- Built-in Level Bulb
- Break Away Guides for Less Common Terminals
- Screwless Terminals
- 25% Fewer Programming Steps
- Save Away™ Override
- Energy Guide™
- Home Today™ Override
- Keyboard Lock
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3-year Warranty

Specifications	
Electrical Information	20-30 Vac
Current Draws	0.1 to 1.5 Amps
Temperature Set Range	45°F to 95°F (7°C to 35°C)
Operating Differential	+/- 1°F
Compressor Protection	3.5 Min. Delay on Break
Terminations	Rh, RC/R,Y,G,W,L,O,B,AE/W2,Y2,C,A

Compatible With
2 Heat/2 Cool Systems
Gas Standing Pilot and Electric Ignition
Gas and Oil Fired Boilers
Electric Heat
Millivolt
Hot Water Gravity and Zoned
Hot Water Motor Valves (3-wire)
Hot Water Solenoid Valves (2-wire)
Heat Pumps with Electric/Gas/Oil Auxiliary
Air/Ground/Hydro Exchanger

Easy to Program & Operate Features

**Home Today Override** keeps comfort level on those odd days when occupants are home during "away" period



**Away/Asleep/At Home** user interface simplifies program periods

**Energy Guide** gives instant feedback when programming

**Save Away Override** allows for energy saving settings when occupants are away during "At Home" period

PROFESSIONAL SERIES

61100N NON-PROGRAMMABLE THERMOSTAT



- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Compressor Short Cycle Protection
- Separate O & B Terminals
- Low Battery Indication
- Front Access Reset Button
- F° / C° Switch
- Gas/Electric Fan Switch
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	3.62" x 4.72" x 1.38"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load, 3.0 Volts DC (2 AA Alkaline Batteries Included)
Terminations	Rc,Rh,B,O,Y1,W1,G,C
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
1 Heat/1 Cool Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger



### 61152P 5/2 DAY PROGRAMMABLE THERMOSTAT



- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Filter Check Monitor
- Adjustable Temperature Differential
- Adaptive Recovery Mode
- Temporary Program Override
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- Gas/Electric Fan Switch
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	3.62" x 4.72" x 1.38"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals), 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	Rc,Rh,B,O,Y1,W1,G,C
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
1 Heat/1 Cool Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger



### 62100N NON-PROGRAMMABLE



- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Compressor Short Cycle Protection
- Separate O & B Terminals
- Auxiliary Heat Indicator
- Low Battery Indication
- Front Access Reset Button
- F° / C° Switch
- Gas/Electric Fan Switch
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	3.62" x 4.72" x 1.38"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals) , 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	Rh, Rc, O, B, Y, E/W1, G, C, W2
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

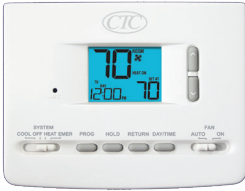
Compatible With
Up to 2 Heat/1 Cool Conventional or Heat Pump Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger

### COVER PLATE, ROUND



Part No.	Description
CVPHW	Universal Cover Plate Thermostat
CVPSD	Universal Cover Plate Smoke Detector

**62152P 5/2 DAY PROGRAMMABLE THERMOSTAT**



- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Filter Check Monitor
- Adjustable Temperature Differential
- Adaptive Recovery Mode
- Temporary Program Override
- Auxiliary Heat Status Indicator
- Compressor Short Cycle Protection
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- English/Spanish Packaging and Instruction Card

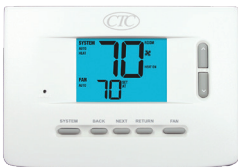
Specifications	
Dimensions	3.62" x 4.72" x 1.38"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 4 Amp Total Maximum Load (All Terminals), 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	Rc, Rh, B, O, Y1, E/W1, G, C, W2
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
Up to 2 Heat/1 Cool Conventional or Heat Pump Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger



**PERFORMANCE SERIES**

**71100N NON-PROGRAMMABLE THERMOSTAT**

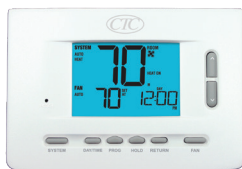


- 3 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Permanent Memory Retains Settings
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Set Point Adjustment Limits
- Compressor Short Cycle Protection
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	3.86" x 5.11" x 1.42"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals), 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	Rc, Rh, O/B/V3, Y1, W1, G, C, S1, S2
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
1 Heat/1 Cool Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Motor Valves (3-wire)
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger

### 71157P 5/2, 7 DAY OR NON-PROGRAMMABLE THERMOSTAT



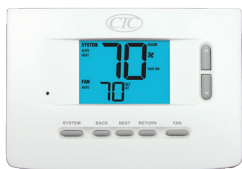
- 4 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Separate User and Installer Reset Buttons
- Programmable Fan with On or Auto Modes
- Residential or Commercial Mode
- Adaptive Recovery Mode
- Temporary Override Limits
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	3.86" x 5.11" x 1.42"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals), 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	Rc, Rh, O/B/V3, Y1, W1, G, C, S1, S2
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
1 Heat/1 Cool Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Motor Valves (3-wire)
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger



### 73200N NON-PROGRAMMABLE THERMOSTAT



- 3 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Permanent Memory Retains Settings
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Adjustable Balance Points
- Auxiliary Heat Fossil Fuel Option
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Set Point Adjustment Limits
- Compressor Short Cycle Protection
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	3.86" x 5.11" x 1.42"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 5 Amp Total Maximum Load (All Terminals), 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	G, Rc, Rh, W2, O/B/V3, Y1, Y2, W1/E/W3, C, L, S1, S2
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
Up to 3 Heat/2 Cool Heat Pump Systems, Up to 2 Heat/2 Cool Conventional Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Motor Valves (3-wire)
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger

### 73257P 5/2, 7 DAY OR NON-PROGRAMMABLE THERMOSTAT



- 4 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Separate User and Installer Reset Buttons
- Programmable Fan with On or Auto Modes
- Residential or Commercial Mode
- Auxiliary Heat Fossil Fuel Option
- Temporary Override Limits
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	3.86" x 5.11" x 1.42"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 5 Amp Total Maximum Load (All Terminals), 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	G, Rc, Rh, W2, O/B/V3, Y1, Y2, W1/E/W3, C, L, S1, S2
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
Up to 3 Heat/2 Cool Heat Pump Systems, Up to 2 Heat/2 Cool Conventional Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Solenoid Valves (2-wire)
Single Stage Heat Pumps
Air/Ground/Hydronic Exchanger



### ULTIMATE SERIES

### 84210T 5/2,7 DAY OR NON-PROGRAMMABLE TOUCHSCREEN THERMOSTAT



- 10 Square Inch Touchscreen Display with Bright Blue Backlight
- Residential or Commercial Modes
- Indoor or Outdoor Remote Sensing
- Auto or Manual Changeover
- Adjustable Compressor Protection
- Hardwire or Battery Powered
- Adjustable Temperature Limits
- Separate User and Installer Reset Buttons
- Auxiliary Heat Fossil Fuel Option
- Multi-Level Keypad Lockout
- Economizer Control
- Programmable Fan Mode
- English/Spanish Packaging and Instruction Card

Specifications	
Dimensions	4.13" x 6.13" x 1.38"
Electrical Information	24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 7 Amp Total Maximum Load (All Terminals), 3.0 Volts DC ( 2 AA Alkaline Batteries Included)
Terminations	A, G, Rc, Rh, W2/AUX2, W3/O/B, Y1, Y2, W1/E/AUX1, C, L, S1, S2
Control Range	45° to 90°F ( 7°C to 32°C)
Display Range	40° to 99°F (5° to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	5% to 95% Relative Humidity

Compatible With
Up to 4 Heat/2 Cool Heat Pump Systems, Up to 3 Heat/2 Cool Conventional Systems
24 VAC Gas, Oil or Electric Systems
Millivolt
Hot Water Gravity and Zoned
Hot Water Solenoid Valves (2-wire)
Air/Ground/Hydronic Exchanger



### 93257WF WI-FI 5/2,7 DAY OR NON-PROGRAMMABLE THERMOSTAT



- 6.5" Easy-Read Touchscreen Display
- Residential or Commercial Modes
- Indoor / Outdoor Remote Sensor
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Wireless or Wired Remote Sensing
- Auxiliary Heat Fossil Fuel Option
- Hardwire or Battery Powered

Specifications		Compatible With	
Dimensions	3.94" x 5.56" x 1.19"	24 VAC Gas, Oil, or Electric Systems	
Electrical Information	24 VAC	Up to 2H / 2C Conventional Systems, Up to 3H / 2C Heat Pump Systems	
Control Range	45° to 90°F ( 7°C to 32°C)		

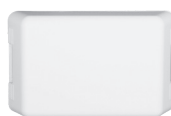
### ACCESSORIES

#### 9330 WIRELESS REMOTE HUMIDITY SENSOR



- Use with BlueLink Smart Connect™ thermostats
- Mounts directly to return air plenum
- Controls humidifier and dehumidifier
- 3 Year Warranty

#### 9340 SHARE-A-WIRE MODULE



- Use with BlueLink Smart Connect™ thermostats
- Use to install 5 wire thermostats using 4 wires
- 3 Year Warranty

#### 9390 WIRELESS REMOTE INDOOR SENSOR



- Use with BlueLink Smart Connect™ thermostats
- Sense temperature at remote location, or combine with thermostat
- Connect up to 4 sensors
- 3 Year Warranty

#### 9490 WIRELESS REMOTE OUTDOOR SENSOR



- Use with BlueLink Smart Connect™ thermostats
- Display outdoor temperature
- Heat Pump balance point control
- 3 Year Warranty

95057WK WIRELESS 5/2, 7 DAY OR NON-PROGRAMMABLE THERMOSTAT KIT



- 5" Backlit Display
- Auto or Manual Changeover
- Residential or Commercial Modes
- Battery Powered with Hardwire Option
- Programmable Fan Control

Specifications

Dimensions	3.86" x 5.11" x 1.42"
Electrical Information	24 VAC
Control Range	45° to 90°F ( 7°C to 32°C)

Compatible With

24 VAC Gas, Oil, or Electric Systems
Up to 2H / 2C Conventional Systems, Up to 3H / 2C Heat Pump Systems

ACCESSORIES

6390 INDOOR REMOTE SENSOR



- Simple 2-wire Installation
- For Indoor Use Only
- Mounting Hardware Included
- Accuracy +/- 1°F (+/- .5°C)
- Compatible with CTC® Thermostats: 71100N, 732N, 71157P, 73257P, 84210T

6490 OUTDOOR REMOTE SENSOR

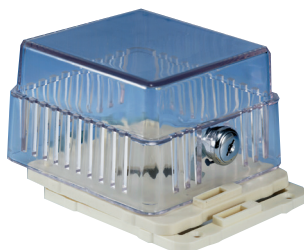


- Simple 2-wire Installation
- For Outdoor Use Only
- Mounting Bracket Included
- Accuracy +/- 1°F (+/- .5°C)
- Compatible with CTC® Thermostats: 71100N, 732N, 71157P, 73257P, 84210T

THERMOSTAT GUARDS



Universal Series



Elite Series

Part No.	Description	Solid Base Dimensions (HxWxD)	Ring Base Dimensions (HxWxD)
Universal			
BTG-UK2	Clear Plastic	8 1/4" x 5 3/8" x 3 1/2"	8 1/8" x 4 5/8" x 3-5/8"
BTG-UM	Metal	8 1/4" x 5 3/8" x 3 1/2"	-
BTG-UWM	Metal	-	6 3/4" x 4 1/2" x 3 9/16"
BTG-UN	Clear Plastic		
Elite			
BTG-EK	Clear Plastic	3 7/8" x 3 1/2" x 2 1/2"	-
Classic			
BTG-K	Clear Plastic	5 1/4" x 4 3/8" x 3"	5 1/4" x 4 5/8" x 3 1/4"
Regal			
BTG-RK	Clear Plastic	6 3/8" x 3 1/2" x 3"	6 3/8" x 3 1/2" x 3 1/4"
BTG-RWM	Metal	-	6 3/8" x 3 1/2" x 3 1/4"
Sentinel			
BTG-54VL	Metal Hinged	6 1/4" x 4 1/4" x 3 1/8"	-
BTG-54VLW	Metal Hinged	-	6" x 3 3/4" x 3 1/8"
Designer			
BTG-DB2	Bronzed Plastic	4 1/4" x 7 5/8" x 2 1/8"	4 1/8" x 7 1/16" x 2 1/4"

Metal Thermostat Guards

- 18-22 Gauge Steel
- Baked Enamel Finish
- Louvered Cover
- Maximum Protection

F336 Replacement Key Fits All Models

Plastic Thermostat Guards

- Hi-impact Plastic
- Clear
- Opaque

All Models

- Locking Key
- Mounting Hardware
- Vertical or Horizontal Mounting



## WHY TRY TO PIECE TOGETHER A COMPLETE ACCESS FITTING LINE, WHEN IT'S HERE.

The A-1<sup>®</sup> line by SUPCO<sup>®</sup> allows you to build a complete inventory of access fittings and service valves from one source.

You no longer have to piece together fittings from various manufacturers to offer your technicians the parts that they need the most for their refrigeration and air conditioning repairs.

### WITH OVER 140 SKUS, SUPCO<sup>®</sup>'S A-1<sup>®</sup> LINE OFFERS:



**PRECISE MANUFACTURING FOR SUPERIOR FITTINGS**



**AN EXCEPTIONAL VALUE OVER OTHER INDUSTRY ACCESS FITTING LINES**



**100% QUALITY CONTROL USING SUPCO<sup>®</sup> CONTROLLED PROPRIETARY MANUFACTURING FACILITIES**



**THE ABILITY TO BUNDLE YOUR ACCESS FITTING ORDERS WITH YOUR OTHER SUPCO<sup>®</sup> PARTS AND COMPONENTS**

**BPV SERIES BULLET PIERCING VALVES**



The ONLY Valve with a Permanent Type, Patented Gasket Application!

- Patented Valve Gasket Application Provides 50 Times More Sealing Area than Competitive “O” Ring Types
- A Sealing Force of Over 180 Inch lbs., Torque Tested with 500 lbs., Pressure Tested at 250°F
- Precision Piercing Needle is Engineered for Concentricity and Hardness to Insure Perfect Seating Every Time
- Nonpositional Mounting - No Adapter Valve Required
- Requires Only a 2” Clearance Area for Installation and Operation
- Hex Key Wrench Included - No Additional Tools Required
- Corrosion Resistant Plated
- Max 500 PSIG operating pressure
- Can use on low side of R410 only

Part No.	O.D. Tubing Size	Packaging
BPV31*	1/4", 5/16", 3/8"	12/Box
BPV31D*	1/4", 5/16", 3/8"	48/Box
BPV21*	1/2", 5/8"	8/Box
BPV14	1/4"	12/Box
BPV56	5/16"	12/Box
BPV38	3/8"	12/Box
BPV34	3/4"	1/Box
BPV78	7/8"	1/Box

\*Note: BPV31 and BPV21 are furnished with adapter sleeves for indicated multiple use applications

**A1 & A2 ADJUSTABLE LINE TAP VALVES**



Signature Series of Clamp-On Line Tap Valves Provide Easy Access to System Refrigerant Without Having to Evacuate System.

- Patent Depressor Valve Action
- Mounts in Any Position
- Retracting Needle for Maximum Flow
- Designed for Permanent Use on System
- Hex Wrench and Adapter Sleeves Included
- Max operating 800 PSIG

Part No.	Tube Size O.D.
A1	1/4", 5/16", 3/8"
A2	1/2", 5/8"

**CA1 ACCESS CONTROL VALVE**



Controls the Flow of All 1/4" SAE Male Flare Depressor Type Valves.

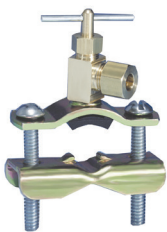
- Purging Port for Air Removal and Safety
- Steel Construction
- Use with Standard Charging Hose

**FTV12 SELF TAPPING VALVES**



- For Humidifiers, Oil Lines and Steam Systems
- Maximum Operating Pressure 500 PSI
- 3/8" SAE Flare
- 1/2" Steel or Brass Pipe Approx. 7/8" O.D.

**STV2LL SELF-TAPPING WATER VALVE**



- Self Piercing on Copper Tubing or 0.035" Wall Hard PVC
- Fits 3/8" O.D. Through 1 3/8" O.D. Tubing or Pipe
- Can be Installed on Pipe with Existing Hole
- Stainless Steel Piercing Needle
- Low Lead
- Complies with the SDWA Section 1417 (d)
- Molded Gasket has a Two Stage Seal on Both Tubing and Valve
- Threaded Bottom Bracket for Easy Installation
- Includes all Fittings for Copper and Plastic Tubing
- Maximum Water Temperature 180°F/82°C

Part No.	Flow Rate	Outlet	Piercing Needle	Application	Comments
STV2LL	1GPM	1/4" Comp.	1/8" Dia. (hollow)	Ice Maker Kits	Reversible lower bracket, low lead

**STV2DLL CONVENTIONAL “DRILL” TYPE VALVE**



- Must Pre-Drill 1/4" Hole in Pipe or Tubing
- Increased Water Flow from Standard Water Valve
- Fits Up to 1 3/8" O.D. Copper Tubing
- Fits 1/2" or 3/4" Galvanized Iron Water Pipe
- Flow Rate: 1 GPM
- Maximum Water Temperature 180°F/82°C
- Includes All Fittings for 1/4" O.D. Copper and Plastic Tubing
- Low Lead
- Complies with the SDWA Section 1417 (d)
- Refer to specs on STV2LL above



## A-1® SF FITTINGS 1/4" ACCESS FITTINGS WITH 2" LONG COPPER TUBE



SUPCO® Part No.	C&D®	JB®	Description
SF3603	CD3603		3/16" dia. w/ thread below hex. Wrench cap.
SF3604	CD3604		1/4" dia. w/ thread below hex. Wrench cap.
SF3608	CD3608		1/8" dia. w/ thread below hex. Wrench cap
SF3602	CD3602		1/4" dia. w/ thread below hex. 3/16 & 1/8 bushings.
SF3434	CD3434		3/16" dia. w/ thread below hex. 1/8 bushing. Wrench cap.
SF3456	CD3456		5/16" dia. 1/4 bushing. Wrench cap.
SF3605	CD3605		5/16" dia. w/ thread below hex. Wrench cap.
SF3606	CD3606		3/8" dia. Wrench cap.
SF8403	CD8403	A31003	3/16" dia. Standard cap.
SF8404	CD8404	A31004	1/4" dia. Standard cap.
SF8405	CD8405	A31005	5/16" dia. Standard cap
SF8406	CD8406	A31006	3/8" dia. Standard cap.
SF8408	CD8408	A31009	1/8" dia. Standard cap

## CAPS, O-RINGS, LOCK NUTS, VALVE CORES, SEALS



SUPCO® Part No.	C&D®	JB®	Description
SF5038	CD5038		1/2" OD hose grommet for 3/8" charging hoses
SF5161	CD5161		5/16" OD x 5/16" neoprene hose grommet
SF5501	CD5501		Teflon O-ring seal for SF5000 series saddle clamp valves
SF5555	CD5555		CRT repair kit for core remover tool with ball valve
SF0099	CD0099		O-ring 7/32" ID. x 11/32 OD. Used for SF5050 coupler
SF0101	CD0101	P90010	O-ring 1/4" ID. x 3/8" OD.
SF0111	CD0111		O-ring 5/16" ID. x 7/16" OD. Used on CRT core depressor couplers
SF1060	CD1060		O-ring 3/16" ID. x 3/8" OD. Used on Brass caps
SF1090	CD1090		O-ring 5/16" ID. x 1/2" OD. Used on CRT core depressor couplers
SF5171	CD5171		Replacement parts, seals, depressor, spring.
SF7466	CD7466		1/2" ACME lock nut. Used on ACME bulkhead fittings
SF3688	CD3688		Hex nut for SF36xx Series
SF3805	CD3805		Valve cores, tube of 6 cores with valve core wrench
SF4450	CD4460	A31999	Valve Core
SF2235	CD2235		1/4" flare hex brass cap with neoprene seal
SF2245	CD2245T	NFT5-4	1/4" flare knurled brass cap with neoprene seal
SF2250	CD2250T	A31997	1/4" flare knurled wrench brass cap with neoprene seal
SF2225	CD2225		1/4" flare hex brass cap with copper gasket seal
SFL1402		SHLD-U4	Safety Locking Cap 1/4" set of 2
SFL1410		SHLD-U12	Safety Locking Cap 1/4" set of 10
SFL1450		SHLD-U50	Safety Locking Cap 1/4" set of 50
SFL51602		SHLD-E4	Safety Locking Cap 5/16" set of 2
SFL51610		SHLD-E12	Safety Locking Cap 5/16" set of 10
SFL51650		SHLD-E50	Safety Locking Cap 5/16" set of 50
CD2290-2	CD2290-2		Locking Refrigerant Cap 1/4" set of 2
CD2290-10	CD2290-10		Locking Refrigerant Cap 1/4" set of 10
CD2290-50	CD2290-50		Locking Refrigerant Cap 1/4" set of 50
CD2295-2	CD2295-2		Locking Refrigerant Cap 5/16" set of 2
CD2295-10	CD2295-10		Locking Refrigerant Cap 5/16" set of 10
CD2295-50	CD2295-50		Locking Refrigerant Cap 5/16" set of 50

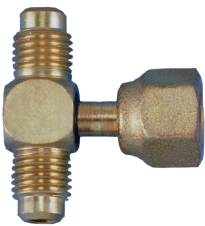


## SADDLE VALVES



SUPCO® Part No.	C&D®	JB®	Description
SF5514	CD5514	A32804	CSV for 1/4" line. Hex cap and core
SF5516	CD5516	A32805	CSV for 5/16" line. Hex cap and core
SF5538	CD5538	A32806	CSV for 3/8" line. Hex cap and core
SF5512	CD5512	A32808	CSV for 1/2" line. Hex cap and core
SF5558	CD5558	A32810	CSV for 5/8" line. Hex cap and core
SF5534	CD5534	A32812	CSV for 3/4" line. Hex cap and core
SF5578	CD5578	A32814	CSV for 7/8" line. Hex cap and core
SF5518	CD5518	A32818	CSV for 1-1/8" line. Hex cap and core

## TEE FITTINGS



SUPCO® Part No.	C&D®	JB®	Description
SF9601	CD9601		1/4" MF x 1/4" FF w/ dep. tip on run, 1/4" MF on branch
SF9602	CD9602		1/4" MF x 1/4" MF on run, 1/4" FF w/ dep. tip on branch
SF9603	CD9603	A31852	1/4" MF x 1/4" MF on run, 1/4" FF w/ dep. tip on branch. All brass
SF9606	CD9606		1/4" MF x 1/4" FF w/ dep. tip on run, 1/4" FF w/ dep. tip on branch
SF9611	CD9611	A31851	1/4" MF x 1/4" FF w/ dep. tip on run, 1/4" MF on branch. All brass
SF2613	CD2613		1/4" Knurled FF on Run, 1/4" MF on branch. All brass. O-Ring seals
SF5044	CD5044		1/4" Knurled FF x 1/4" MF on Run, 1/4" MF on branch. All brass. O-Ring seal
SF8505	CD8505		5/16" ID & 3/8" OD solder on run, 1/4" MF on branch. All brass
SF8504	CD8504		1/4" ID & 3/8" OD solder on run, 1/4" MF on branch. All brass
SF8506	CD8506		3/8" ID & 1/2" OD solder on run, 1/4" MF on branch. All brass
SF9638		A31238	1/2" ID & 5/8" OD solder on run, 1/4" MF on branch. All brass
SF9614	CD9614	A31514	1/4" MF x 1/4" MPT on run, 1/4" MF on branch. All brass
SF9616	CD9616	A31512	1/4" MF x 1/8" MPT on run, 1/4" MF on branch. All brass
SF9625	CD9615		1/4" MF x 1/4" MF on run, 1/4" MPT on branch. All brass
SF9620	CD9620	A31452	1/4" MF x 1/4" MF on run, 1/8" MPT on branch. All brass
SF9617		A31544	1/4" MF x 1/4" ODS on run, 1/4" MF on branch. All brass
SF9613		A31444	1/4" FE w/nuts on run, 1/4" MF on branch. All brass

## VALVES

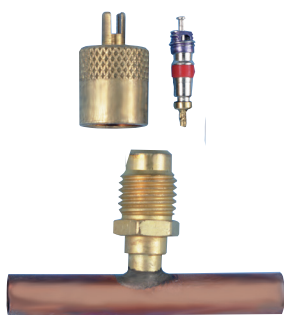


SUPCO® Part No.	C&D®	JB®	Description
SF2050	CD2050		Thumb screw core depressor for 3/16" male flare
SF2060	CD2060	A33500	Thumb screw core depressor for 1/4" male flare
SF2070	CD2070	A33000	Thumb screw core depressor for 1/4" m. flare, depresses core & controls flow
SF2080	CD2080		Thumb screw core depressor for 5/16" male flare
SF5050	CD5050		Miniature thumb screw core depressor for 1/4" male flare
SF5060	CD5060		Miniature thumb screw core depressor for 5/16" male flare
SF4040	CD4040	D10162	Hose end ball valve, 1/4" m. flare x 1/4" female flare swivel, depressor tip

References to original equipment manufacturers' names, models, trademarks and part numbers are used for identification purposes only and SUPCO® replacement products are not in any way affiliated, endorsed or sponsored by such original equipment manufacturers.



## COPPER TEE FITTINGS



SUPCO® Part No.	C&D®	JB®	Description
SF8414	CD8414	A31334	Swaged for 1/4" OD tube on run. 1/4" MF on branch
SF8416	CD8416	A31335	Swaged for 5/16" OD tube on run. 1/4" MF on branch
SF8438	CD8438	A31336	Swaged for 3/8" OD tube on run. 1/4" MF on branch
SF8412	CD8412	A31338	Swaged for 1/2" OD tube on run. 1/4" MF on branch
SF8458	CD8458	A31340	Swaged for 5/8" OD tube on run. 1/4" MF on branch
SF8434	CD8434	A31342	For 3/4" OD tube on run. 1/4" MF on branch
SF8478	CD8478	A31344	For 7/8" OD tube on run. 1/4" MF on branch
SF8418		A31348	For 1 1/8" OD tube on run. 1/4" MF on branch
SF8420	CD8420	A31199	1/4" x 3" tube, swaged for 1/4" OD on one side of run. 1/4" MF on branch
SF8425	CD8425		5/16" x 3" tube, swaged for 5/16" OD on one side of run. 1/4" MF on branch
SF8426	CD8426	A31200	3/8" x 3" tube, swaged for 3/8" OD on one side of run. 1/4" MF on branch
SF8427	CD8427	A31201	1/2" x 3" tube, swaged for 1/2" OD on one side of run. 1/4" MF on branch
SF8428	CD8428	A31202	5/8" x 3" tube, swaged for 5/8" OD on one side of run. 1/4" MF on branch
SF8429	CD8429	A31204	3/4" x 3" tube, swaged for 3/4" OD on one side of run. 1/4" MF on branch
SF8431	CD8431		7/8" x 3" tube, swaged for 7/8" OD on one side of run. 1/4" MF on branch
SF5421	CD5421	A31134	For 1/4" ODS, 5/16" ODF on run. 1/4 MF on branch
SF5438		A31135	For 5/16" ODS, 3/8" ODF on run. 1/4 MF on branch
SF5450		A31136	For 3/8" ODS, 1/2" ODF on run. 1/4 MF on branch

## ACCESS BODIES



SUPCO® Part No.	C&D®	JB®	Description
SF3600	CD3600	A31736	1/4" MF, w/Thread below hex. 1/8" ID. 3/16", 1/4", 5/16" steps. Cap & core
SF8400	CD8400		1/4" MF. 1/8" ID. 3/16", 1/4", 5/16" steps. Cap & core
SF1200	CD1200		1/4" MF. 3/16" ID. 1/4", 5/16" steps. Cap & core
SF3338	CD3338		1/4" MF. 3/16" ID. 1/4", 3/8" steps. Cap & core
SF2500	CD2500		1/4" MF. 1/4" ID. 5/16" step. Cap & core
SF3346	CD3346		1/4" MF. 1/4" ID. 3/8", 7/16" steps. Cap & core
SF5055	CD5055		1/4" MF. 1/8" ID. 7/32", 5/16" steps. Cap & core
SF4545	CD4545		1/4" MF. 1/8" ID. 9/32", 1/4" steps. Cap & core
SF3358	CD3358		1/4" MF. 5/16" ID. 1/2" step. Cap & core
SF3368	CD3368		1/4" MF. 3/8" ID. 1/2" step. Cap & core
SF3340		A31728	1/4" MF. 1/2" ID. 5/8" step. Cap & core
SF2243	CD2243		1/4" MF x 3/4" long. 1/8" ID. 1/4", 5/16" steps. Cap & core
SF2576	CD2576		1/4" MF x 5/8" long. 1/4" ID. 11/32" step. Cap & core
SF1441	CD1441		1/4" MF x 1/4" MF with one flare nut. Cap & core
SF3342		A31728	1/4" MF. Bulkhead mounting. 1/4" ID. 3/8" step. w/core
SF1818	CC1818	A31482	1/4" MF x 1/8" MPT. Cap & core
SF1414	CC1414	A31484	1/4" MF x 1/4" MPT. Cap & core
SF1819	CC1819		1/4" MF x 1/8" MPT, Elbow. Cap & core
SF3418		A31728	1/4" MF x 1/4" MPT, Elbow. Cap & core
SF2020	CD2020		1/2" Male ACME x 1/4" FF Hex
SF2022	CD2022		1/2" Male ACME x 3/8" FF Hex
SF2024	CD2024		1/2" Male ACME x 1/4" FF Hex. w/valve core, cap & copper gasket
SF1450	CD1450		1/4" MF x 1/4" FF Hex. w/valve core and copper gasket



CONNECTORS



SUPCO® Part No.	C&D®	JB®	Description
SF2000	CD2000		1/4" MF x 1/4" FF Knurled Swivel w/depressor tip and seal
SF2010	CD2010	QC-E4	1/4" MF x 1/4" FF Knurled Swivel 90° w/depressor tip and seal
SF2012	CD2012		1/2" Male ACME x 1/4" FF Knurled Swivel w/depressor tip and seal
SF2014	CD2014		1/4" MPT x 1/4" FF Knurled Swivel w/depressor tip and seal
SF2018	CD2018		1/8" MPT x 1/4" FF Knurled Swivel w/depressor tip and seal
SF2019	CD2019		1/8" FPT x 1/4" FF Knurled Swivel w/depressor tip and seal
SF2028	CD2028		1/4" MF x 1/2" Female ACME Knurled Swivel w/depressor tip and seal
SF2038	CD2038		3/8" MF x 1/4" FF Knurled Swivel w/depressor tip and seal
SF2041	CD2041		1/4" FPT x 1/4" FF Knurled Swivel w/depressor tip and seal
SF2056	CD2056		1/4" MF x 5/16" FF Knurled Swivel 45° w/depressor tip and seal
SF1446	CD1446	D10244	1/4" FF Hex Swivel x 1/4" FF Hex Swivel. No depressor tips
SF1454	CD1454		1/4" MF x 1/4" FF Nut w/depressor tip and valve core
SF2594	CD2594		1/4" x 1 1/4" Long tube. Double flared with 1/4" FF Nut and depressor tip
SF2595	CD2595		1/4" Swaged x 1 1/4" Long tube. Double flared with 1/4" FF Nut and depressor tip
SF2597	CD2597		1/4" MF x 1/4" FF Nut w/depressor tip and valve core. All brass
SF9644	CD9644		(2) 1/4" MF on u-shape, 1/4" FF and 1/4 MF on branch. (2) cores, (1) cap
SF5014	CD5014		1/4" MF x 1/4" FF with floating core depressor
SF8725	CD8725		1/4" MF x 1/4" FF hex with copper gasket. No swivel
SF2035	CD2035	QC-S4	1/4" MF x 1/4" FF Knurled Swivel. Gas retaining
SF2037	CD2037		3/8" MF x 1/4" FF Knurled Swivel. Gas retaining
SF2084	CD2084		1/4" MPT x 1/4" FF Knurled Swivel. Gas retaining
SF2090	CD2090		1/4" MF x 1/4" FF Knurled Swivel 90°. Gas retaining
SF2094	CD2094		1/4" FPT x 1/4" FF Knurled Swivel. Gas retaining
SF2098	CD2098		1/8" FPT x 1/4" FF Knurled Swivel. Gas retaining
SF7265	CD7265		Gauge Access Line Tap with 1/4" FPT. Fits 3/8" OD tube

TOOLS



SUPCO® Part No.	C&D®	JB®	Description
SF3900	CD3900		Core removal tool. For 1/4" flare coupling
SF3910	CD3910		Core remover tool with 1/4" male flare. For 1/4" flare coupling
SF3920	CD3920	A32500N	Core remover tool with ball valve. For 1/4" flare coupling
SF3930	CD3930	A32525N	Core remover tool with ball valve and 1/4" male flare. For 1/4" flare coupling
SF3956	CD3956		Core remover tool with ball valve and 1/4" male flare. For 5/16" flare coupling
SF3975	CD3975		Thermometer. Can be used with "SF39--" series core remover tools.
SF3090	CD3090		Tube Piercing tool. Can be used with "SF39--" series core remover tools.
SF5560	CD5560		Shut off stem for core remover tool without ball valve
SF5577	CD5577		Core wrench tool for "SF39--" series core removal tools
SF3915	CD3915		Pick to remove broken cores for "SF39--" series core removal tools
SF3916	CD3916		Thread chaser to clean internal threads for "SF39--" series core removal tools
SF4311	CD4311	A32100	Tube Piercing Pliers
SF4314	CD4314	A32101	Tube Piercing Pliers Replacement Tip
SF3810	CD3815		Valve core wrench, preset to 5 inch pounds torque. (non-adjustable)
SF3800	CD3800	A32004	Core container/wrench. Holds (3) cores
SF3813	CD3813		Core container/chaser/wrench. Holds (3) cores
SF1808	CD1808	A33600	Oil Tap for semi-hermetic compressors
* CD2290T	CD2290T		Locking Cap Tool

\* For use with Locking Refrigerant Caps on Page 73



**BC SERIES BULLET® RESTRICTO CAPILLARY TUBING**



Fits ANY Domestic and Commercial Refrigerator, Freezer or Application. Air Conditioner from 1/8 hp to 5 hp.

- Precision Bore, Plus or Minus .001"
- Specification: ASTMB360

Old Part No.	New Part No.	Length (ft.)	Description
	BC26X16	16	.026 ID X .071 OD
BC5	BC28X10	10	.028 ID X .071 OD
BC1	BC31X10	10	.031 ID X .081 OD
	BC36X12	12	.036 ID X .086 OD
BC2	BC40X12	12	.040 ID X .093 OD
	BC42X12	12	.042 ID X .093 OD
	BC44X12	12	.044 ID X .093 OD
	BC46X12	12	.046 ID X .093 OD
	BC49X11	11	.049 ID X .093 OD
	BC50X11	11	.050 ID X .093 OD
BC3	BC52X12	12	.052 ID X .093 OD
	BC54X11	11	.054 ID X .106 OD
	BC55X11	11	.055 ID X .112 OD
	BC59X10	10	.059 ID X .112 OD
BC4	BC64X12	12	.064 ID X .125 OD
	BC70X12	12	.070 ID X .125 OD
	BC75X9	9	.075 ID X .125 OD
	BC80X10	10	.080 ID X .145 OD
	BC85X9	9	.085 ID X .145 OD
	BC90X7	7	.090 ID X .145 OD

Old Part No.	New Part No.	Length (ft.)	Description
	BC26X100	100	.026 ID X .071 OD
BC5-100	BC28X100	100	.028 ID X .071 OD
BC1-100	BC31X100	100	.031 ID X .081 OD
	BC36X100	100	.036 ID X .086 OD
BC2-100	BC40X100	100	.040 ID X .093 OD
	BC42X100	100	.042 ID X .093 OD
	BC44X100	100	.044 ID X .093 OD
	BC46X100	100	.046 ID X .093 OD
	BC49X100	100	.049 ID X .093 OD
	BC50X100	100	.050 ID X .093 OD
BC3-100	BC52X100	100	.052 ID X .093 OD
	BC54X100	100	.054 ID X .106 OD
	BC55X100	100	.055 ID X .112 OD
	BC59X100	100	.059 ID X .112 OD
BC4-100	BC64X100	100	.064 ID X .125 OD
	BC70X100	100	.070 ID X .125 OD
	BC75X100	100	.075 ID X .125 OD
	BC80X100	100	.080 ID X .145 OD
	BC85X100	100	.085 ID X .145 OD
	BC90X100	100	.090 ID X .145 OD

**DON'T FORGET...**

**CAPILLARY TUBE CUTTERS  
ON PAGE 169 IN  
THE TECH'S TOOLKIT**



### Conversion Chart ( 0.024 I.D. inches to 0.080 I.D inches )

	BC5		BC1	BC2			BC3			BC4									
Part No.	BC26	BC28	BC31	BC36	BC40	BC42	BC44	BC49	BC50	BC52	BC54	BC55	BC59	BC64	BC70	BC75	BC80	BC85	BC90
Tube I.D.	0.026	0.028	0.031	0.036	0.040	0.042	0.044	0.049	0.050	0.052	0.054	0.055	0.059	0.064	0.070	0.075	0.080	0.085	0.090
0.024	1.430	2.160	3.890																
0.025	1.120	1.640	3.040																
0.026	1.000	1.520	2.580																
0.027	0.810	1.200	2.070																
0.028	0.660	1.000	1.710	3.950															
0.029	0.560	0.840	1.440	3.300															
0.030	0.460	0.68	1.180	2.680															
0.031	0.390	0.595	1.000	2.260															
0.032	0.325	0.500	0.850	1.930	3.610														
0.033		0.435	0.680	1.642	3.520														
0.034		0.340	0.615	1.388	2.588														
0.035		0.300	0.525	1.185	2.210	2.930	3.934												
0.036		0.250	0.378	1.000	1.840	2.416	3.250												
0.037				0.856	1.569	2.072	2.761												
0.038				0.738	1.335	1.742	2.329												
0.039				0.645	1.164	1.526	2.014	3.835											
0.040				0.551	1.000	1.306	1.741	3.275	3.749										
0.041				0.479	0.866	1.149	1.509	2.816	3.240										
0.042				0.416	0.760	1.000	1.302	2.417	2.740	3.535									
0.043				0.362	0.665	0.870	1.153	2.109	2.388	3.047									
0.044				0.311	0.583	0.768	1.000	1.820	2.063	2.606	3.470								
0.045				0.270	0.507	0.669	0.878	1.612	1.827	2.293	3.025								
0.046				0.236	0.446	0.595	0.783	1.410	1.600	2.021	2.640	2.985							
0.047					0.378	0.531	0.700	1.250	1.415	1.760	2.313	2.624	4.157						
0.048					0.345	0.468	0.617	1.114	1.254	1.566	2.040	2.305	3.653						
0.049					0.298	0.415	0.551	1.000	1.123	1.390	1.811	2.026	3.115						
0.050					0.257	0.375	0.484	0.891	1.000	1.156	1.613	1.809	2.843						
0.051						0.322	0.431	0.795	0.892	1.107	1.425	1.598	2.453						
0.052						0.287	0.385	0.720	0.807	1.000	1.280	1.435	2.215	3.907					
0.053							0.317	0.625	0.709	0.881	1.135	1.229	1.935	3.261					
0.054							0.290	0.570	0.620	0.779	1.000	1.086	1.703	2.950					
0.055							0.254	0.500	0.559	0.699	0.900	1.000	1.517	2.586					
0.056								0.443	0.500	0.634	0.806	0.924	1.379	2.330					
0.057								0.393	0.445	0.564	0.720	0.809	1.236	2.084					
0.058								0.343	0.395	0.499	0.650	0.729	1.103	1.867					
0.059								0.350	0.350	0.446	0.580	0.647	1.000	1.675	2.862				
0.060								0.290	0.308	0.394	0.513	0.573	0.893	1.463	2.475				
0.061								0.270	0.347	0.450	0.514	0.802	1.310	2.210					
0.062									0.310	0.411	0.465	0.723	1.189	2.000	3.201				
0.063										0.373	0.423	0.659	1.093	1.817	2.872				
0.064										0.336	0.383	0.604	1.000	1.646	2.575				
0.065											0.353	0.560	0.910	1.522	2.389				
0.066											0.326	0.519	0.864	1.412	2.198				
0.067												0.468	0.779	1.270	1.994				
0.068												0.424	0.713	1.166	1.809				
0.069												0.388	0.660	1.086	1.687				
0.070												0.351	0.603	1.000	1.544	2.303	2.400	3.190	
0.071													0.547	0.918	1.397	2.071	2.240	2.960	
0.072													0.503	0.849	1.287	1.910	2.100	2.775	
0.073													0.464	0.789	1.189	1.766	1.970	2.600	
0.074													0.419	0.737	1.104	1.624	1.850	2.450	
0.075													0.381	0.692	1.000	1.470	1.750	2.318	
0.076													0.344	0.592	0.912	1.335	1.650	2.140	
0.077													0.316	0.548	0.838	1.235	1.550	1.980	
0.078													0.293	0.510	0.775	1.151	1.460	1.840	
0.079														0.476	0.721	1.069	1.389	1.720	
0.080														0.448	0.680	1.000	1.320	1.610	

**Conversion Chart**  
 1.) Locate the recommended capillary I.D. in the left hand column  
 2.) Reading across find the standard stock capillary tube.  
 3.) Multiply the recommended length by the conversion factor.  
 4.) As a general rule you should use a capillary tube that is between 5 feet and 16 feet long

**EXAMPLE:**  
 The recommended capillary tube is .046 X 120" Find 0.046 in the left column read across to 0.595 [BC42] or 0.783 [BC44] or 1.410 [BC49].  
 Multiply 0.595 X 120" = 71.4" Good Choice  
 Multiply 0.783 X 120" = 93.96" Best Choice  
 Multiply 1.410 X 120" = 169.2" Okay choice, to long for service pack.

More sizes and a metric chart on next page

More charts available from www.supco.com

For best results use conversion factors in the shaded areas. - For more conversions - including metric see next page

### Conversion Chart Continued ( 0.081 to 0.100 inches )

	BC5		BC1		BC2				BC3				BC4						
Part No.	BC26	BC28	BC31	BC36	BC40	BC42	BC44	BC49	BC50	BC52	BC54	BC55	BC59	BC64	BC70	BC75	BC80	BC85	BC90
Tube I.D.	0.026	0.028	0.031	0.036	0.040	0.042	0.044	0.049	0.050	0.052	0.054	0.055	0.059	0.064	0.070	0.075	0.080	0.085	0.090
0.081																0.632	0.943	1.240	1.545
0.082																0.596	0.885	1.170	1.484
0.083																0.564	0.840	1.109	1.420
0.084																0.536	0.795	1.052	1.370
0.085																0.510	0.760	1.000	1.320
0.086																0.482	0.715	0.945	1.234
0.087																0.457	0.676	0.895	1.172
0.088																0.434	0.655	0.850	1.110
0.089																0.414	0.618	0.810	1.054
0.090																0.395	0.585	0.775	1.000
0.091																0.372	0.554	0.730	0.944
0.092																0.351	0.526	0.690	0.892
0.093																0.333	0.504	0.655	0.845
0.094																0.316	0.480	0.620	0.804
0.095																	0.460	0.590	0.760
0.096																	0.435	0.565	0.731
0.097																	0.415	0.540	0.696
0.098																	0.395	0.510	0.659
0.099																	0.369	0.498	0.640
0.100																	0.362	0.477	0.616

Horsepower and BTU charts available from  
www.supco.com

For best results use conversion factors in the shaded areas.

### Metric Conversion Chart ( 0.600 MM to 2.500 MM )

	BC5		BC1		BC2				BC3				BC4						
Part No.	BC26	BC28	BC31	BC36	BC40	BC42	BC44	BC49	BC50	BC52	BC54	BC55	BC59	BC64	BC70	BC75	BC80	BC85	BC90
Tube I.D.	0.026	0.028	0.031	0.036	0.040	0.042	0.044	0.049	0.050	0.052	0.054	0.055	0.059	0.064	0.070	0.075	0.080	0.085	0.090
0.600 mm	1.450	2.200	3.990																
0.610 mm	1.425	2.155	3.840																
0.635 mm	1.120	1.640	3.040																
0.660 mm	1.000	1.520	2.580																
0.700 mm	0.680	1.082	1.860																
0.780 mm	0.410	0.623	1.046	2.630															
0.800 mm	0.364	0.545	0.951	2.110															
0.900 mm		0.276	0.487	1.085	2.100	2.653	3.540												
0.910 mm		0.265	0.455	1.029	2.000	2.600	3.337												
1.000 mm				0.593	1.076	1.408	1.753	3.597											
1.060 mm				0.435	0.815	1.036	1.410	2.497	2.840	3.651									
1.100 mm				0.332	0.620	0.817	1.101	2.005	2.273	2.893	3.831								
1.200 mm					0.359	0.496	0.675	1.215	1.372	1.707	2.239	2.538	4.019						
1.240 mm					0.304	0.421	0.560	1.018	1.145	1.420	1.840	2.062	3.199						
1.270 mm					0.257	0.375	0.484	0.891	1.000	1.156	1.613	1.809	2.843						
1.300 mm						0.300	0.419	0.765	0.875	1.086	1.398	1.567	2.404	4.299					
1.370 mm							0.300	0.580	0.625	0.785	1.005	1.094	1.716	2.955					
1.400 mm								0.495	0.546	0.689	0.889	0.990	1.499	2.551					
1.500 mm								0.330	0.343	0.439	0.570	0.638	0.990	1.662	2.836				
1.600 mm									0.282	0.375	0.424	0.660	1.094	1.820	2.875				
1.630 mm												0.374	0.593	0.985	1.623	2.568			
1.700 mm												0.288	0.472	0.785	1.279	2.005			
1.800 mm														0.554	0.928	1.415	2.105	2.251	3.000
1.900 mm														0.387	0.700	1.019	1.529	1.770	2.350
2.000 mm															0.485	0.734	1.090	1.400	1.750
2.100 mm																0.574	0.855	1.120	1.435
2.160 mm																0.508	0.755	0.987	1.296
2.200 mm																0.466	0.690	0.915	1.198
2.300 mm																0.382	0.585	0.760	0.986
2.400 mm																0.309	0.470	0.605	0.784
2.500 mm																	0.385	0.505	0.649
2.540 mm																	0.362	0.477	0.616

All metric sizes are in millimeters, all replacement sizes are in inches.

Rev.092009

**SUD8358 MAGNA-CLEAN® UV DYE DRIER**



- 100% XH-9 Beaded Desiccant, Compatible with All Refrigerants and Oils
- Hermetically Sealed, Directional Flow Drier with Access Valve
- 100% Spun Copper Shell and End Tubes, Pre-Scored Ends for Easy Break Off
- 100 Micron Filter Sieve
- Reduces Clogged Capillary Tubes. Reduces Wear and Tear on Component Parts
- Use on Capillary or Expansion Valve Systems
- Maximum Working Pressure 500 PSI

**Specifications**

Inlet	Outlet	Length	Diameter	Tonnage R134A	Tonnage R22	R134A Drops of Water Removed	R22 Drops of Water Removed
1/4" OD 1/4" Flare	1/4" OD or Cap	8 3/4"	1"	3/4	1 68 @ 125°F	74 @ 75°F 64@ 125°F	68 @ 75°F

**SUD8288 CLEANOUT DRIER**



The SUD8288 is a Solid Core Cleanout Drier with UV Dye and a Magnetic Filter.

- Can Replace Electrolux® 5303918288 and All Other Copper Driers
- Adds UV Dye and Processes through a Magnetic Filter to Remove Microscopic Metal Particles from the System

**SUD SERIES COPPER DRIERS**

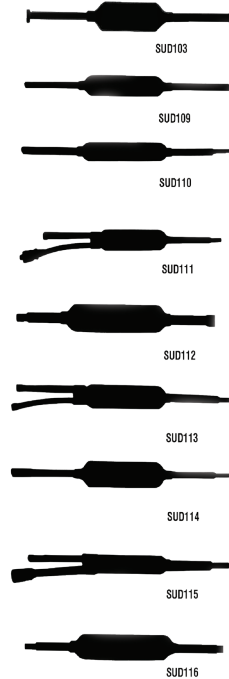


High Quality, High Capacity Original Equipment Components for use on Domestic and Commercial Refrigerators, Freezers and Air Conditioners.

- 100% XH-9 Beaded Molecular Sieve
- Hermetically Sealed
- Copper Shells and End Tubes
- High Capacity
- Easy Break Off Grooved Ends
- Maximum Working Pressure 500 PSI



Part No.	Description	Inlet	Outlet	Length	Tonnage R134A	Tonnage R22
SUD103	1" Plugged Ends	1/4" O.D.	1/4" O.D.	8"	1/3	1/2
SUD109	3/4" Non-Directional	1/4" O.D.	1/4" O.D.	7 1/2"	1/3	1/2
SUD110	3/4" Fused Ends	1/4" O.D.	1/4" O.D.	8 7/8"	1/3	1/2
SUD111	1" Charging Drier	1/4" O.D. 1/4" Flare	1/4" O.D. or Cap	9 5/8"	3/4	1
SUD112	1" Step Down Drier	5/16" O.D.	5/16" O.D. or Cap	10 3/4"	1	2
SUD113	1" Double Inlet	(2) 1/4" O.D.	1/4" O.D.	8 3/4"	3/4	1
SUD114	1" Fused Ends	1/4" I.D. 1/4" O.D	1/4" O.D. or Cap	8 3/4"	3/4	1
SUD115	3/4" Charging Drier	1/4" I.D. 1/4" O.D. 1/4" Flare	1/4" O.D. or Cap	9 5/8"	1/3	1/2
SUD116	1" Non-Directional	3/16", 1/4", 5/16" I.D.	5/16" I.D. or Cap	8 3/4"	3/4	1





**S200 SERIES COPPER STRAINERS**



Specifically Designed for Reopened Systems. Each Strainer Contains an Oversized Screen Area for Filtering Large Quantities of burnt out Foreign Matter from System.



Part No.	Inlet	Outlet	O.A. Length	O.D.	Feed
S210	1/4"	.098 Cap Tube	2 3/4"	3/4"	1
S211	1/4"	.125 Cap Tube	2 3/4"	3/4"	1
S212	1/4"	1/4" Copper Tube	2 3/4"	3/4"	1
S214	3/8"	.125 Cap Tube	4 1/2"	5/8"	2
S215	3/8"	.125 Cap Tube	4 1/2"	5/8"	3
S216	3/8"	3/8" Copper Tube	4 1/2"	5/8"	1
S218	3/8"	.125 Cap Tube	4 1/2"	5/8"	1
S219	3/8"	.146 Cap Tube	5"	7/8"	4
S220	3/8"	.112 Cap Tube	4 1/2"	7/8"	6

- 500 PSI Maximum
- 200 Mesh Monel Screen
- Not Compatible with R410A

Part No.	Description	Inlet	Outlet	Drops of Water Removed				Tonnage	
				75°	125°	75°	125°	R12	R22
MD5	1" Drier (No Tubes)	1/4"	Cap	37.5	34	34	32	1/3	1/2
MD6	1" Drier (No Tubes)	3/8"	Cap	37.5	34	34	32	1/3	1/2

**CSLD SERIES/COMPACT SUCTION LINE DRIERS**

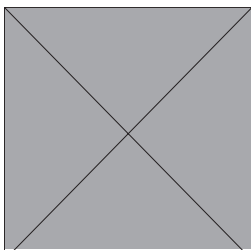


- Dual Access Valves
- High Acid Removal
- Solid Copper Fittings (Available in Solder Only)
- Corrosion Resistant Epoxy Powder Paint Finish

Specifications	
Maximum Working Pressure (MWP)	500 PSIG
Filtration	40 Microns

Flow Capacity in Tons Refrigerant (1) (For KW Multiply Tons by 3.5 (2))			
R12	R134A	R502	R404A/507

Part No.	Connections Size & Type	Dimensions in Inches		Evaporator Temperature °F																	
		A	B	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40				
				Pressure Drop (PSI)																	
				2	1.5	1	0.5	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5
CSLD14S6	3/4 ODF	4 3/8	4 9/16	3	2.1	13.7	0.8	3.1	2.1	13	0.7	3.7	2.3	1.5	0.9	0.5	3.6	2.3	1.5	0.9	0.5
CSLD14S7	7/8 ODF	4 9/16	4 9/16	3.2	2.2	1.5	0.8	3.3	2.2	1.4	0.7	4	2.4	1.6	1	0.5	3.9	2.4	1.6	1	0.5
CSLD14S9	1 1/8 ODF	4 27/32	4 9/16	4.4	3.1	1.9	1.1	4.5	3	1.8	1	5.1	3.1	2	1.3	0.7	4.9	3.1	2	1.3	0.7



(1) All Ratings in Accordance with ARI Standard 730-86  
 (2) For 2 PSI P, Multiply Values by 1.4  
 Example: 1.0 Tons x 3.5 = 3.5 kw

Flow Capacity in Tons Refrigerant (1) (For KW Multiply Tons by 3.5 (2))			
R22	R407C	R410A	

Part No.	Connections Size & Type	Dimensions in Inches		Evaporator Temperature °F																			
		A	B	40	20	0	-20	-40	40	20	0	-20	-40	40	20	0	-20	-40					
				Pressure Drop (PSI)																			
				3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5
CSLD14S6	3/4 ODF	4 3/8	4 9/16	4.9	3.2	2.2	1.4	0.7	5.5	3.7	2.7	1.7	0.9	3.3	2.2	1.5	0.9	0.5					
CSLD14S7	7/8 ODF	4 9/16	4 9/16	5.2	3.4	2.3	1.5	0.8	5.8	3.9	2.8	1.9	1.1	3.6	2.3	1.6	1	0.5					
CSLD14S9	1 1/8 ODF	4 27/32	4 9/16	7	4.6	3.1	2	1	7.8	5.3	3.7	2.5	1.3	4.8	3.2	2.1	1.3	0.7					

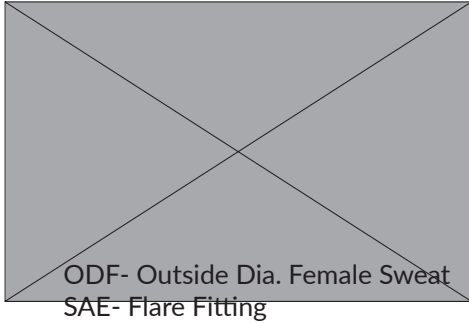
LLD SERIES LIQUID LINE DRIERS



- Solid Copper Fittings
- Shock Resistant Steel Construction
- High Acid and Moisture Removal
- Corrosion Resistant Epoxy Powder Paint Finish

Specifications

Desiccant Blend	Activated Alumina with Molecular Sieve
Filtration	40 Microns
Maximum Working Pressure (MWP)	Sizes 03-016 Cubic Inches = 680 PSIG Sizes 30-75 Cubic Inches = 500 PSIG



Part No.	Connection	Dimensions in Inches		Flow Capacity Tons @ 1 PSI P(1)(4) (For KW, Multiply Tons by 3.5)							
		Size & Type	A	B	R12	R134A	R22	R410AC	R407C	R404A/507	R502
LLD032	1/4 SAE	4 5/16	1 5/8	1.6	1.9	2.1	2.1	2	1.4	1.3	
LLD032S	1/4 ODF	3 3/4	1 5/8	1.9	2.3	2.5	2.5	2.4	1.7	1.6	
LLD052	1/4 SAE	4 7/8	2 1/2	1.6	2	2.2	2.2	2.1	1.4	1.4	
LLD052S	1/4 ODF	4 11/32	2 1/2	2.4	2.9	3.1	3.1	3.1	2.1	2	
LLD053	3/8 SAE	5 3/16	2 1/2	3	3.7	4	4	3.9	2.7	2.6	
LLD053S	3/8 ODF	4 17/32	2 1/2	3.7	4.5	4.9	4.9	4.8	3.3	3.2	
LLD082	1/4 SAE	5 13/16	2 1/2	1.6	2	2.2	2.2	2.1	1.4	1.4	
LLD082S	1/4 ODF	5 1/4	2 1/2	2.5	3.1	3.4	3.4	3.3	2.2	2.2	
LLD083	3/8 SAE	6 3/32	2 1/2	3.5	4.3	4.7	4.7	4.6	3.1	3	
LLD083S	3/8 ODF	5 7/16	2 1/2	3.4	4.2	4.6	4.6	4.5	3	3	
LLD084	1/2 SAE	6 11/32	2 1/2	5.5	6.7	7.3	7.3	7.1	4.9	4.7	
LLD084S	1/2 ODF	5 1/2	2 1/2	5.7	7	7.6	7.6	7.4	5.1	4.9	
LLD163	3/8 SAE	6 7/8	2 1/2	3.6	4.4	4.8	4.8	4.7	3.2	3.1	
LLD163S	3/8 ODF	6 7/32	2 1/2	4	4.9	5.3	5.3	5.2	3.6	3.5	
LLD164	1/2 SAE	7 1/8	2 1/2	6.8	8.3	9	9	8.8	6	5.8	
LLD164S	1/2 ODF	6 9/32	2 1/2	7.1	8.6	9.3	9.3	9.1	6.2	6.1	
LLD165	5/8 SAE	7 1/2	2 1/2	9.7	11.8	12.8	12.8	12.5	8.6	8.3	
LLD165S	5/8 ODF	6 17/32	2 1/2	10.7	13.1	14.2	14.2	13.9	9.5	9.2	
LLD304	1/2 SAE	9 13/16	3	7.1	8.6	9.3		9.1	6.2	6.1	
LLD304S	1/2 ODF	8 15/16	3	7.2	8.8	9.5		9.4	6.4	6.2	
LLD305S	5/8 ODF	10 3/16	3	11.3	13.8	15		14.7	10	9.7	
LLD306S	3/4 ODF	9 5/8	3	13	15.8	17.1		16.8	11.5	11.1	
LLD307S	7/8 ODF	9 13/16	3	14.3	17.4	18.9		18.5	12.6	12.3	

(1) All Ratings in Accordance with ARI Standard 710-86.  
 86°F Liquid Refrigerant Temperature  
 5°F Saturated Vapor Temperature  
 3.1 lbs./min./ton for R134A  
 2.9 lbs./min./ton for R22 and R407C  
 4.0 lbs./min./ton for R404A/507 and R12  
 4.4 lbs./min./ton for R502  
 2.7 lbs./min./ton for R410A

(2) Water Capacities are Based on:  
 Equilibrium Point Dryness (EPD) of:  
 50 Parts per Million for R-134A, R404-A/507,  
 R-410A and R-407C  
 60 Parts Per Million for R-22  
 30 Parts Per Million for R-502  
 15 Parts Per Million for R-12

(3) 20 Drops of Water = 1 gram = 1 cc  
 (4) For 2 PSI D P, Multiply Values by 1.4

LLD LIQUID REFRIGERANT HOLDING CAPACITY - OUNCES

Desiccant Cubic Inches	R12		R134A		R22		R407C		R410A		R404A/507		R502	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
03	2.4	2.2	2.2	2	2.2	2	2.1	1.9	2	1.7	1.9	1.7	2.2	2
05	5.9	6	5.5	5.5	5.4	5.4	5.2	5	4.8	4.5	4.7	4.5	5.5	5.4
08	8	7.4	7.4	6.7	7.3	6.6	7	6.2	6.5	5.5	6.4	5.5	7.5	6.6
16	14.5	12.5	13.4	11.4	13.2	11.2	12.6	10.4	11.7	9.4	11.6	9.3	13.5	11.2
30	21.8	19.9	20.1	18.1	19.8	17.8	18.9	16.6			17.4	14.7	20.2	17.7
41	29.3	26.8	26.9	24.4	26.6	23.9	25.4	22.3			23.3	19.7	27.2	23.8
75	52.8	48.3	48.6	43.9	48	43.1	45.8	40.2			42.1	35.6	49.1	43

R-410A The LLD Filter Drier is UL Listed for 680PSIG Maximum Working Pressure for All Sizes Through 16 Cubic Inches.



LLD SERIES LIQUID LINE DRIERS



(1) All Ratings in Accordance with ARI Standard 710-86.  
 86°F Liquid Refrigerant Temperature  
 5°F Saturated Vapor Temperature  
 3.1 lbs./min./ton for R134A  
 2.9 lbs./min./ton for R22 and R407C  
 4.0 lbs./min./ton for R404A/507 and R12  
 4.4 lbs./min./ton for R/502  
 2.7 lbs./min./ton for R410A

(2) Water Capacities are Based on:  
 Equilibrium Point Dryness (EPD) of:  
 50 Parts per Million for R-134A, R404A/507, R410A and R407C  
 60 Parts Per Million for R22  
 30 Parts Per Million for R502  
 15 Parts Per Million for R12

(3) 20 Drops of Water = 1 gram = 1 cc  
 (4) For 2 PSI D P, Multiply Values by 1.4

Filter Drier	Water Capacity / Drops of Water													
	R12		R134A		R22		R407C		R410A		R404/407		R502	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
032, 032S	64	46	44	37	34	31	31	21	27	17	47	37	43	34
052, 052S, 053, 053S	130	81	68	50	58	38	47	26	44	23	73	48	73	49
082, 082S, 083, 083S, 084, 084S	188	117	101	76	87	57	68	39	63	34	109	73	105	71
163, 163S, 164, 164S, 165, 165S	295	204	169	140	151	117	134	86	115	67	180	143	193	145
304, 304S, 305S, 306S, 307S	615	444	359	278	314	218	309	212			385	272	427	335

LLD LIQUID LINE FILTER DRIERS SELECTION RECOMMENDATIONS (TONS)

Filter Drier	Refrigeration, Low Temp. & Commercial Installations			Air Conditioning		OEM Self Contained Equipment	
	R12/134A	R22/407C/410A	R404A/507A	Field Replacement & Field Installations R12/134A	R22/407C	R12/134A	R22/407C/410A
032,032S	1/4	1/4	1/4	1/2	3/4	3/4	1
052,052S	1/3	1/3	1/3	3/4	1	1	1 1/2
053,053S	1 1/2	2	2	3			
082,082S	1/2	1/2	1/2	3/4	1 1/2	1	2
083,083S	1	1	1	2	3	3	4
084,084S	1.5	2	1	3	5	4	7
162,162S	1	1 1/2	3/4	1	2	2	2 1/2
163,163S	2	4	2	4	6	5	7 1/2
164,164S	2	4	2	4	6	5	7 1/2
165,165S	3	5	2 1/2	5	7 1/2	7 1/2	10
303S	3	3	2	3	4 1/2	4	5
304,304S	3	5	3	5	7 1/2	7 1/2	9
305,305S	5	7 1/2	5	8	10	10	14
306S	7 1/2	7 1/2	5	7 1/2	12 1/2	15	20
307S	7 1/2	7 1/2	5	7 1/2	12 1/2	15	20
309S	7 1/2	10	7 1/2	10	12 1/2	15	20

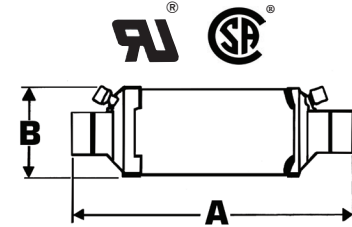
SSLD SERIES/ SUCTION LINE



- Dual Access Valves
- Solid Copper Fittings
- Corrosion Resistant Epoxy Powder Paint Finish

Specifications

Filtration	40 Microns
Maximum Working Pressure (MWP)	500 PSIG



ODF- Outside Dia. Female Sweat  
SAE- Flare Fitting

Flow Capacities in Refrigerant Tons at Selected Evaporator Temperatures

Part No.	Connection Size & Type	Dimensions in Inches		40°F 20°F 0°F -20°F R134A				40°F 20°F 0°F -20°F -40°F R22				40°F 20°F 0°F -20°F -40°F R410A					
		A	B	2	1.5	1	0.5	0.5	3	2	1.5	0.5	3	2	1.5	1	0.5
SSLD83	3/8 SAE	6 3/32	2 1/2	0.6	0.4	0.2	0.1	0.9	0.6	0.4	0.3	0.1	1.1	0.8	0.5	0.4	0.1
SSLD83S	3/8 ODF	5 7/16	2 1/2	0.8	0.5	0.3	0.2	1.3	0.8	0.6	0.4	0.2	1.6	1	0.8	0.5	0.3
SSLD84	1/2 SAE	6 11/32	2 1/2	1.4	0.9	0.6	0.3	2.2	1.4	1	0.6	0.3	2.7	1.8	1.3	0.8	0.4
SSLD84S	1/2 ODF	5 1/2	2 1/2	1.7	1.2	0.7	0.4	2.7	1.8	1.2	0.8	0.4	3.4	2.3	1.6	1.1	0.5
SSLD85	5/8 SAE	6 3/16	2 1/2	2.2	1.5	0.9	0.5	3.4	2.2	1.5	1	0.5	4.2	2.8	2	1.3	0.7
SSLD85S	5/8 ODF	5 3/4	2 1/2	2.4	1.6	1	0.5	3.8	2.5	1.7	1.1	0.6	4.7	3.2	2.3	1.5	0.8
SSLD164	1/2 SAE	7 1/8	2 1/2	1.5	1	0.6	0.3	2.3	1.5	1	0.7	0.4	2.9	1.9	1.3	0.9	0.5
SSLD165S	5/8 ODF	6 9/16	2 1/2	2.2	1.5	0.9	0.5	3.4	2.2	1.5	1	0.5	4.2	2.8	2	1.3	0.7
SSLD166S	3/4 ODF	6 31/32	2 1/2	2.6	1.8	1.1	0.6	4.1	2.7	1.8	1.2	0.6	5.1	3.4	2.4	1.6	0.8
SSLD167S	7/8 ODF	7 1/8	2 1/2	2.7	1.8	1.1	0.6	4.6	2.8	1.9	1.1	0.6					
SSLD305	5/8 SAE	10 3/16	3	3	2	1.2	0.6	4.7	3.1	2.1	1.3	0.7	5.8	3.9	2.8	1.7	0.9
SSLD305S	5/8 ODF	9 7/32	3	2.8	1.8	1.1	0.6	4.3	2.8	1.9	1.2	0.6	5.3	3.6	2.5	1.6	0.8
SSLD306S	3/4 ODF	9 5/8	3	3.4	2.3	1.4	0.7	5.4	3.5	2.4	1.5	0.8	6.7	4.5	3.2	2	1.1
SSLD307S	7/8 SAE	9 25/32	3	3.8	2.5	1.6	0.8	5.9	3.9	2.6	1.7	0.9	7.3	5	3.5	2.3	1.2
SSLD309S	1 1/8 SAE	9 25/32	3	3.9	2.6	1.6	0.8	6.1	4	2.7	1.7	0.9	7.6	5.1	3.6	2.3	1.2
SSLD419S	1 1/8 ODF	9 15/16	3 1/2	5.4	3.6	2.2	1.2	8.5	5.5	3.8	2.4	1.3	10.6	7	5.1	3.2	1.8

Flow Capacity Chart

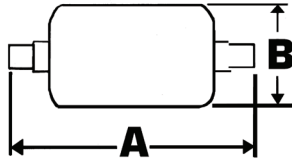
Part No.	40°F 20°F 0°F -20°F -40°F R407C Pressure Drop in PSI					40°F 20°F 0°F -20°F -40°F R502/R404A/R507 Pressure Drop in PSI				
	3	2	1.5	1	0.5	3	2	1.5	1	0.5
SSLD83	1	0.6	0.4	0.3	0.1	0.7	0.5	0.3	0.2	0.1
SSLD83S	1.4	0.9	0.6	0.4	0.2	1	0.7	0.5	0.3	0.1
SSLD84	2.3	1.5	1.1	0.6	0.3	1.8	1.1	0.8	0.5	0.3
SSLD84S	2.9	1.9	1.3	0.8	0.4	2.2	1.4	1	0.6	0.3
SSLD85	3.6	2.3	1.6	1	0.5	2.8	1.8	1.2	0.8	0.4
SSLD85S	4.1	2.7	1.8	1.2	0.6	3.1	2	1.3	0.8	0.4
SSLD164	2.5	1.6	1.1	0.7	0.4	1.9	1.2	0.8	0.5	0.3
SSLD165S	3.6	2.3	1.6	1	0.5	2.8	1.8	1.2	0.8	0.4
SSLD166S	4.4	2.9	1.9	1.3	0.6	3.4	2.2	1.5	0.9	0.5
SSLD167S						4.3	2.6	1.7	1	0.6
SSLD305	5	3.3	2.2	1.4	0.7	3.8	2.5	1.7	1	0.5
SSLD305S	4.6	3	2	1.3	0.6	3.6	2.3	1.5	1	0.5
SSLD307S	6.3	4.1	2.7	1.8	0.9	4.9	3.1	2.1	1.3	0.7
SSLD309S	6.5	4.3	2.9	1.8	0.9	5	3.2	2.2	1.3	0.7
SSLD419S	9.1	5.9	4	2.5	1.3	6.9	4.5	3	1.9	1

All Ratings in Accordance with ARI Standard 710-86

HP SERIES / LIQUID LINE BI-DIRECTIONAL HEAT PUMP DRIERS



- 16 Cubic Inch Drier in a 2 1/2" Diameter Shell
- Internal Check Valves Allow Flow and Filtration in Either Direction
- High Moisture and Acid Removal
- Corrosion Resistant Epoxy Powder Paint Finish
- Copeland Approved for POE Oils



ODF- Outside Dia.  
Female Sweat  
SAE- Flare Fitting

Specifications	
Desiccant Blend	75% Molecular Sieve and 25% Activated Alumina (Bead)
Filtration	40 Microns
Maximum Working Pressure (MWP)	Sizes 05-16, 600 PSIG

HP Capacity Tables

Part No.	Connection Size & Type	Dimensions		Flow Capacity Tons @ 1 PSI P(*1)(*4) For KW, Multiply Tons by 3.5)			Water Capacity Tons (*2) Drops of Water (*3) R22 R 407C R410A					
		A	B	R22	R410A	R407C	75°F	125°F	75°F	125°F	75°F	125°F
HP083	3/8 SAE	5.94	2.63	4.5	4.5	4.4	159	144	106	79	85	75
HP083S	3/8 ODF	5.31	2.63	5.1	5.1	5	159	144	106	79	85	75
HP084S	1/2 ODF	5.38	2.63	6.7	6.7	6.6	159	144	106	79	85	75
HP163	3/8 SAE	6.75	3.15	4.6	4.6	4.5	323	294	237	179	178	160
HP163S	3/8 ODF	6.13	3.15	5.2	5.2	5.1	323	294	237	179	178	160
HP164	1/2 SAE	7.00	3.15	7.7	7.7	7.6	323	294	237	179	178	160
HP164S	1/2 ODF	6.13	3.15	8.1	8.1	7.9	323	294	237	179	178	160
HP165	5/8 SAE	7.44	3.15	8.3	8.3	8.1	323	294	237	179	178	160
HP165S	5/8 ODF	6.44	3.15	8.7	8.7	8.5	323	294	237	179	178	160

HP Capacity Tables

Drier Size	Liquid Refrigerant Holding Capacity - Oz.						Water Holding Capacity Drops					
	R22		R407		R410A		R22		R407C		R410A	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
163S, 164, 164S, 165, 165S	10.1	9.1	9.6	8.5	9	7.6	161	141	125	87	91	55

(\*1) All ratings in accordance with ARI Standard 710-86.  
86°F liquid refrigerant temperature.  
5°F saturated vapor temperature  
3.1 lbs./min./ton for R134a

2.9 lbs./min./ton for R22 and R407C  
4.0 lbs. min./ton for R404A/507 and R12  
4.4 lbs./min./ton for R502  
2.7 lbs./min./ton for R410A

(\*2) Water Capacities are based on: Equilibrium Point Dryness (EPD) of:  
50 parts per million for R-134a,  
R404-A/507, R-410A and R-407C 60 parts per million for R-22  
15 parts per million for R-12, 30 parts per million for R-502  
(\*3) 20 drops of water = 1 gram = 1 cc  
(\*4) For 2 PSI D P, Multiply values by 1.4

Liquid Line Bi-Directional Heat Pump Driers Selection Recommendations (Tons)

Drier Size	Refrigeration, Low Temp & Commercial Installations			Air Conditioning Field Replacements & Field Installations		OEM: Self Contained Equipment	
	R12/134A	R22/407C/410A	R404A/134A	R12/134A	R22/407C/410A	R12/134A	R22/407C
083, 083S	1	1	1	2	3	3	4
084S	1.5	2	1	3	5	4	7
162, 162S	1	1.5	3/4	1	2	2	2 1/2
163, 163S	2	4	2	4	6	5	7 1/2
164, 164S	2	4	2	4	6	5	7 1/2
165, 165S	3	5	2 1/2	5	7 1/2	7 1/2	10

VIBRATION ABSORBERS



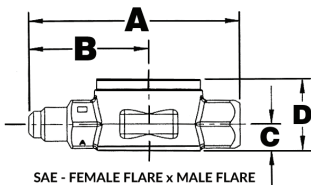
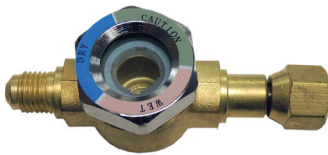
Vibration absorbers are designed for installation in the suction and discharge lines of air conditioning, heat pump and refrigeration systems to dampen the transmission of compressor induced vibration through the system piping.

- Unique proven design for high pressure applications rated for R410A
- Compatible with all refrigerants
- Burst pressure 2500 (psig)
- Deep pitch stainless steel hose and high tensile wire braid
- Design includes a piston stopper that provides a more positive seal and reduces leaks
- 100 % helium and hydrogen leak tested

Part No.	Tube Size	Length	Max Working Pressure PSI
VAS-012	1/2"	8 7/8"	500
VAS-014	1/4"	8"	500
VAS-034	3/4"	10 1/2"	500
VAS-038	3/8"	8 1/2"	500
VAS-058	5/8"	9 3/4"	500
VAS-078	7/8"	11 7/8"	500
VAS-118	1 1/8"	13"	500
VAS-138	1 3/8"	15 1/2"	500
VAS-158	1 5/8"	16 3/4"	500
VAS-218	2 1/8"	20 1/2"	390

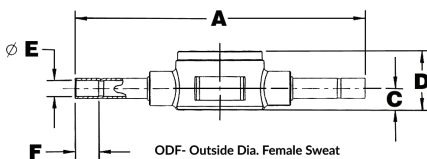
\*VAS-218 Burst pressure 1950 (psig)

SSG SERIES MOISTURE INDICATORS



- Fully Hermetic Design
- 3% Relative Humidity Indication Compared to 10% Paper Indicators
- Single Indicator for All Common Refrigerants
- Accurate Color Calibration at Low PPM Levels and Higher Temperatures
- Tri Color Coded
  - Blue = Dry Optimal Operation Conditions
  - Purple = Low Levels of Moisture Indicated
  - Pink = High Levels of Moisture Detected
- Wide Angle Viewing High Visibility Window for Ease of Monitoring
- All Brass Corrosion Resistant Body
- Solid Copper Fittings

Specifications	
Relative Humidity Sensitivity	3%
Maximum Working Pressure (MWP)	680 PSIG



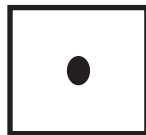
Part No.	Connection Size & Type	A	B	C	D	E	F
SSGFM2	1/4 SAE	2.75 ± .03	1.19 ± .03	.34 ± .06	.937 ± .06		
SSGFM3	3/8 SAE	3.00 ± .03	1.31 ± .03	.47 ± .06	1.187 ± .06		
SSGSS2	1/4 ODF	4.62 ± .10		.34 ± .06	.937 ± .06	.254 ± .002	.375
SSGSS3	3/8 ODF	4.62 ± .10		.34 ± .06	.937 ± .06	.379 ± .002	.402
SSGSS4	1/2 ODF	4.87 ± .10		.47 ± .06	1.187 ± .06	.504 ± .003	.500
SSGSS5	5/8 ODF	4.87 ± .10		.47 ± .06	1.187 ± .06	.629 ± .003	.625
SSGSS7	7/8 ODF	6.31 ± .10		.61 ± .06	1.500 ± .06	.879 ± .003	.750

ALLIN LIQUID EYE® SIGHT GLASSES



The Allin Liquid Eye® has a Unique “See-Thru” Feature that is more Readable than Other Sight Glasses. The Dot on the Tube is Magnified when the Tube is full of Refrigerant to give a Quick, Easy Indication.

- Solid Brass Body
- Shock Resistant Glass
- Available in Flare or Solder
- Color Bar Designed for HFC Refrigerants



Empty



Full

Part No.	Connection Size	Connection Type	Length	A-1® Part Number
SG114	1/4" Flare	M x F	3 1/16"	F5904
SG115	3/8" Flare	M x F	3 1/4"	F5905
SG206	1/2" Flare	M x F	3 11/16"	F5916
SG207	5/8" Flare	M x F	4"	F5917
SG110	1/4" Flare	M x M	3 1/8"	F5900
SG111	3/8" Flare	M x M	3 3/8"	F5901
SG204	1/2" Flare	M x M	3 15/16"	F5914
SG205	5/8" Flare	M x M	4 1/8"	F5915
SG118	1/4" Sweat	Solder	7 1/4"	F5908
SG119	3/8" Sweat	Solder	7 3/4"	F5909
SG208	1/2" Sweat	Solder	8 3/4"	F5918
SG209	5/8" Sweat	Solder	9 3/4"	F5919

ALLIN LIQUID EYE® MOISTURE REACTORS

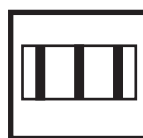


The Allin Liquid Eye® Moisture Reactor is Easy to Read in Minimal Light. It Provides a Quick Indication of Refrigerant in the Tube, as well as the Pressure of the Moisture. When Moisture is Present, the Color Bars on the Band within the Tube Change Color.

- Solid Brass Body
- Shock Resistant Glass
- Available in Flare or Solder
- Color Bar Designed for HFC Refrigerants



No Moisture



Moisture

Part No.	Connection Size	Connection Type	Length	A-1® Part Number
SG114R	1/4" Flare	M x F	3 1/16"	F5924
SG115R	3/8" Flare	M x F	3 1/4"	F5925
SG206R	1/2" Flare	M x F	3 11/16"	F5936
SG207R	5/8" Flare	M x F	4"	F5937
SG110R	1/4" Flare	M x M	3 1/8"	F5920
SG111R	3/8" Flare	M x M	3 3/8"	F5921
SG204R	1/2" Flare	M x M	3 15/16"	F5934
SG205R	5/8" Flare	M x M	4 1/8"	F5935
SG118R	1/4" Sweat	Solder	7 1/4"	F5928
SG119R	3/8" Sweat	Solder	7 3/4"	F5929
SG208R	1/2" Sweat	Solder	8 3/4"	F5938
SG209R	5/8" Sweat	Solder	9 3/4"	F5939

**URCO UNIVERSAL SERIES RELAY CAPACITOR OVERLOAD**



For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Relay, Capacitor and Overload
- Works on RSIR, CSIR, PSC & CSR Compressors
- “Push-On” Compressor Terminals and 1/4” Capacitor Terminals
- Designed for Modern High Efficiency Compressors
- Helps Older Compressors to Start and Run Cooler
- Easy Mount Clip for Quick Installation
- Easy to Read Instructions
- Prevents Low Voltage Starting Problems

Part No.	HP Rating	Volts	Cont. Running Amps
URCO210	1/3 to 1/2	120	13.3
URCO410	1/4 to 1/3	120	6.8
URCO810	1/12 to 1/5	120	4.05

**URCORC SERIES UNIVERSAL 4 ‘N 1 RELAY CAPACITOR, OVERLOAD & RUN CAPACITOR**

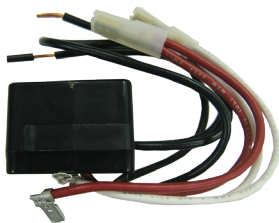


For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Same Features and Benefits of the Universal Series
- Adds a Closely Matched System Run Capacitor
- Replaces Current-Type Relays

Part No.	HP Rating	Run Cap. Size $\mu$ FD	Volts	Cont. Running Amps
URCO210RC	1/3 to 1/2	20	120	13.3
URCO410RC	1/4 to 1/3	15	120	6.8
URCO810RC	1/12 to 1/5	12.5	120	4.05

**URO SERIES UNIVERSAL RELAY OVERLOAD**



For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Relay and Overload
- Works on “RSIR”, “CSIR”, “PSC” & “CSR” Compressors
- Locked Rotor Protection, Eliminates Start Winding Overheating
- “Snap-On” Bracket for Easy Mounting
- Quick and Easy Installation
- Wiring Instructions on the Package
- Instructions on Adding a Start Capacitor And/Or Run Capacitor
- Wire Leads for Those Odd Installations, Wire Nuts Included

Part No.	HP Rating	Volts
URO41	1/4 to 1/3	120
URO81	1/12 to 1/5	120

**UPRO SERIES PUSH-ON RELAY**



For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Relay and Overload
- Works on RSIR, CSIR, PSC & CSR Compressors
- “Push-On” Relay Overload
- Quick Connect Push-On Terminals for Run And/Or Start Capacitor
- Wiring Instructions on the Package
- Instructions for Adding a Start Capacitor And/Or Run Capacitor

Part No.	HP Rating	Volts
UPRO21	1/3 to 1/2	120
UPRO41	1/4 to 1/3	120
UPRO81	1/12 to 1/5	120



**URSC SERIES RELAY START CAPACITOR**



For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Current-Type Relays
- Works on RSIR, CSIR, PSC & CSR Compressors
- Provides a Boost for Hard Start and Unbalanced Systems
- No Additional Wires Required

Part No.	HP Rating	Volts
URSC10	1/20 to 1/2	120
URSC20	1/20 to 1/2	240

**RCO SERIES 3 'N 1 RELAY, OVERLOAD & START CAPACITOR COMBINATION**



For Refrigeration Systems Without Run Capacitors.

- Replaces Relay, Overload and Provides a Boost for Hard Start and Unbalanced Systems
- Prevents Low Voltage Starting Problems

Part No.	Mounting	Start HP Rating	Volts	Cont. Running Amps	Trip in Current After 6-16 Sec Amps
RCO210	Quick Connect	1/2	120	13.3	12
RCO410	Quick Connect	1/4 to 1/3	120	6.8	22
RCO810	Quick Connect	1/12 to 1/5	120	4.05	12
RCO220	Quick Connect	1/2	240	7.5	22
RCO420	Quick Connect	1/4 to 1/3	240	4.05	12
RCO620	Quick Connect	1/6 to 1/5	240	1.66	6
RCO820	Quick Connect	1/12 to 1/8	240	1.66	6

**RO & PRO SERIES RELAY & OVERLOAD COMBINATIONS**



For Refrigeration Systems Without Run Capacitors.

- RO Series Features "Snap-On" Bracket
- PRO Series Installs on "Pin-Type" Terminal
- Locked Rotor Protection Eliminates Start Winding Overheating
- Can be Used With and Without Start Capacitor

Part No.	Mounting	HP Rating	Volts	Full Load	Trip in Current After 6-16 Sec Amps
RO41	Quick Connect	1/4 to 1/3	120	6.8	22
RO81	Quick Connect	1/12 to 1/5	120	4.05	12
PRO41	Push On	1/4 to 1/3	120	6.8	22
PRO81	Push On	1/12 to 1/5	120	4.05	12
RO42	Quick Connect	1/4 to 1/3	240	4.05	12
RO62	Quick Connect	1/6 to 1/5	240	1.66	6
RO82	Quick Connect	1/12 to 1/8	240	1.66	6
PRO42	Push-On	1/4 to 1/3	240	4.05	12
PRO62	Push-On	1/6 to 1/5	240	1.66	6

**ICG & PO SERIES RELAYS**



For Refrigeration Systems Without Run Capacitors.

- ICG Series Features a "Snap-On" Bracket
- PO Series Installs on Compressors with "Pin-Type" Terminals
- Fastest Cool Down Time of Any Solid State Relays
- Can be Used With or Without Start Capacitor

Part No.	Mounting	HP Rating	Volts
ICG1	Quick Connect	1/12 to 1/2	120
ICG-220	Quick Connect	1/12 to 1/2	240
PO115	Push-On	1/12 to 1/2	120
PO230	Push-On	1/12 to 1/2	240

**SS410 SUPER START RELAY OVERLOAD COMBINATION**



For Refrigeration Systems Without Run Capacitors.

- Equipped with an Electro-Mechanical Relay, Locked Rotor Protector and a 243-292  $\mu$ F Start Capacitor
- Increases Torque to its Maximum Capacity

Part No.	Mounting	HP Rating	Volts
SS410	Quick Connect	1/4 to 1/3	120

**USR UNIVERSAL STARTING RELAY**



- Pre-Wire Electronic Potential Relay Hard Start Kit
- Pre-wired for easy installation
- Voltage sensing
- Instant re-start
- Can be used on PSC and CSIR type compressors
- 330 VAC capacitor
- UL® Recognized

Specifications	
Capacitor size ( $\mu$ F)	108-130
Recommended Range (hp)	1/2 - 10 hp
Operating Voltage VAC	110-270

**IC100 & IC102**



For Refrigeration Systems With or Without Run Capacitors.

- 120 Volt PTC Relay Replaces Current Relays and Solid State Relays From 1/20 to 1/3 HP
- Can Be Used in Any Position
- Used on Over 10,000 Models

**OL SERIES DIRECT REPLACEMENT OVERLOADS**



- Direct Replacements for Numerous OEM's
- Use OL Series Overloads with IC Series, PO Series and UR115

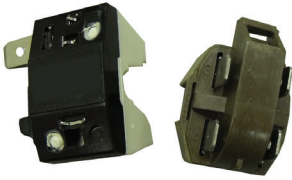
SUPCO® Part No.	Relay	Overload	HP Rating	Volts	# of Terminals	Compressor Connections	Compatible	Replaces
IC100	*	----	1/12 to 1/3	120	2	2	YES	2165943, WR7X194
IC102	*	----	1/2 to 1/3	120	4	2	YES	5303007173, WR7X240
OL1	----	*	1/5 to 1/4	120/240	1	1	----	5303299560, 216100110
OL2	----	*	1/4 to 1/3+	120/240	1	1	----	5303270406, WR8X122
OL3	----	*	1/6 to 1/5	120/240	1	1	----	5303276514
OL4	----	*	1/4 to 1/3	120/240	1	1	----	5303206885, 2154945

**OLK1786 COMPRESSOR START DEVICE KIT**



Relay and Overload Kit can Replace 8201786, also used on Kenmore®, Whirlpool®, KitchenAid® and Roper® Refrigerators, Plus Other Brands Manufactured by Whirlpool®.

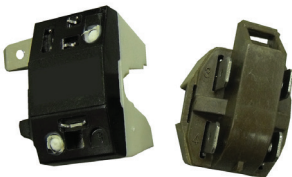
**OLK7535 OVERLOAD RELAY KIT SIDE X SIDE**



OLK Series Relay & Overload Kit Can Be Used as a Direct Replacement on Several Whirlpool®, Roper®, Estate®, KitchenAid®, Maytag® and Magic Chef® Models.

- Can Be Used With or Without a Run Capacitor
- Energy Saving Plastic Construction
- Domestic Refrigerators and Freezers
- 120 VAC Applications
- Replaces Over 2,300 Models

**OLK7913 OVERLOAD RELAY**



- Direct Replacement for 2,400 Whirlpool® Models
- Universal Replacement on Over 10,000 Models, as a Universal Relay Overload Kit
- Can Be Used With or Without a Capacitor
- 120 VAC

**OLK1799 COMPRESSOR START DEVICE KIT**



The start relay briefly boosts the compressor, and then shuts off as soon as the motor gets up to speed and the Overload provides added protection for the compressor.

- Replaces 8201799

**EC10 COMPRESSOR LEAD KIT**



Kit Includes Three Leads:

- Three - 23", 10 AWG Wires
- Flag Female Compressor Terminal (.250 tab)
- Waterproof Butt Connector (12-10 Wire Range)
- Sandpaper

Part No.	Description	UOM	Order Multiple
EC10	Kit with 23" Wire	EA	1

**UNIVERSAL DEFROST TIMERS**



- Universal Replacement
- Electronic Circuitry
- Adjustable Defrost Frequency 4 to 12 Hours
- Adjustable Defrost 10 to 35 Minutes
- Cycle Advance Button
- Standard Size and Mounting to Fit Most Applications
- No Ground Wire
- Quiet Operation and Durability
- Standard Terminal Configuration to Accommodate Most Connections
- Dust Proof Case
- Temperature Range 32°F to 135°F (0°C to 57°C)
- Humidity Range 10-95% Non-Condensing



Part No.	Description	Voltage	Max Compressor Rating	Max Resistive Load (Amps)
UET120	Universal Electronic Timer	120 VAC	1/2 HP	10
UET240	Universal Electronic Timer	120 VAC	1/2 HP	5
EDT10	Electronic Defrost Timer	115 VAC	1/3 HP	10
EDT11	Electronic Defrost Timer	115 VAC	3/4 HP	20
EDT20	Electronic Defrost Timer	208/240 VAC	3/4 HP	5

OV SERIES UNIVERSAL REPLACEMENT MOTOR PROTECTORS



- Built in Temperature Activated Disc Opens and Closes the Motor Overload Protector's Contacts
- Excessive Heat Generated by the Compressor, Motor or Crankcase Heater will Open the Contacts to Help Protect the Equipment from Serious Damage or Burnout
- UL® and CSA® Approved

Recommended HP @120 Volt

SUPCO® Part No.	Locked Rotor Amps												GEM® No.	Mars® No.	
	12.0	13.5	1/20	1/12	1/10	1/8	1/6	1/5	1/4	1/3	1/2	3/4			
OV32	12.0	13.5	•	•										MP359	35004
OV34	14.0	15.5		•	•	•	•	•						MP358	35007
OV36	16.0	18.0			•	•	•	•						MP357	35009
OV38	18.5	22.0			•	•	•	•	•					MP354	35010
OV40	22.5	26.5					•	•	•					MP360	35011
OV42	27.0	31.0					•	•	•					MP355	35012
OV44	31.5	35.5								•	•			MP361	35017
OV46	36.0	40.0								•	•	•		MP352	35018
OV48	40.5	44.5									•	•	•	MP351	35019
OV50	45.0	49.0										•	•	MP362	35020

Recommended HP @240 Volt

SUPCO® Part No.	Locked Rotor Amps												GEM® No.	Mars® No.			
	12.0	13.5	1/10	1/8	1/6	1/5	1/4	1/4+	1/3	1/3+	1/2	1/2+	3/4	1			
OV32	12.0	13.5	•	•	•	•	•	•	•						MP359	35004	
OV34	14.0	15.5	•	•	•	•	•	•	•						MP358	35007	
OV36	16.0	18.0				•	•	•	•	•					MP357	35009	
OV38	18.5	22.0				•	•	•	•	•	•				MP354	35010	
OV40	22.5	26.5						•	•	•	•	•	•	•	MP360	35011	
OV42	27.0	31.0						•	•	•	•	•	•	•	MP355	35012	
OV44	31.5	35.5										•	•	•	MP361	35017	
OV46	36.0	40.0										•	•	•	MP352	35018	
OV48	40.5	44.5											•	•	•	MP351	35019
OV50	45.0	49.0												•	MP362	35020	

This application guide is offered as a guide only when no other information is available. The application will vary with compressor manufacturer's systems and condenser applications (static, fan and water cooled, etc.) Other factors include refrigerant, motor type and efficiency.

OVKIT OVERLOAD KIT



- Contains One of Each Overload (10 Total)

References to original equipment manufacturers' names, models, trademarks and part numbers are used for identification purposes only and SUPCO® replacement products are not in any way affiliated, endorsed or sponsored by such original equipment manufacturers.

**COMMERCIAL CONDENSATE EVAPORATOR PANS**

For Condensate Applications where no Drain is Available. Choose from these Popular, Large Capacity Sized Pans. SUPCO® Commercial Refrigeration Condensate Evaporator Pans are Made from Top Quality Materials for Durable, Long Life.



- CP804-HD 20 Gauge Stainless Steel. All Others use 22 Gauge.
- Made with NSF Compliant Material
- Corrosion Resistant Stainless Steel Construction
- Positive Evaporation
- High Limit Safety and Float Switch Operation
- Available in 120, 208 and 240 VAC 50/60 Hz.
- 3 ft. power cord
- Warranty - One Year from Date of Installation
- Space Saving

**Specifications**

Part No.	Capacity (Quarts)	Amps/ Volts	Element Watts	Dimensions LxWxH	Dissipation Rate per Day	Replaces
CP801	1 3/4	3.3 @ 120	400	10" x 7" x 2 1/2"	3 Gallons	DM04T1S, 840111
CP802	2 1/2	6.6 @ 120	800	13" x 7" x 2 1/2"	6 Gallons	DM08S-1S, 880111
CP802-240	2 1/2	3.3 @ 240	800	13" x 7" x 2 1/2"	6 Gallons	DM08S-3S
CP804	4 1/2	8.34 @ 120	1000	13" x 7" x 4"	10 Gallons	DM10M-S1, 810134
CP804-240	4 1/2	4.17 @ 240	1000	13" x 7" x 4"	6 Gallons	DM10M-3S, 810244Z
CP804HD	7 1/2	8.34 @ 120	1000	13" x 10" x 4"	10 Gallons	DM10W-1D, 810114
CP804HD-240	7 1/2	4.17 @ 240	1000	13" x 10" x 4"	6 Gallons	DM10W-3D, 810244
CP807	7 1/2	8.34 @ 120	1000	13" x 10" x 4"	10 Gallons	DM10W-1D, 810114
CP807-240	7 1/2	4.8 @ 240	1000	13" x 10" x 4"	10 Gallons	DM10W-3D, 810244
CP808	15	8.34 @ 120	1000	21" x 13" x 4"	8 Gallons	DM10WW-1D, 810244B
CP815	15	12 @ 120	1440	21" x 13" x 4"	12 Gallons	DM15WW-1D, 815134
CP815-240	15	6.28 @ 240	1500	21" x 13" x 4"	12 Gallons	DM15WW-3D, 815244
CP816	7	4.17 @ 120	500	13" x 10" x 4"	4.5 Gallons	DM05W-1D, 850114
CP817	7	4.81 @ 208	1000	13" x 10" x 4"	8 Gallons	DM10W-2D, 810214
CP818	7	4.81 @ 208	1000	13" x 10" x 4"	8 Gallons	DM10W-2D, 810212
CP819	7	12.5 @ 120	1500	13" x 10" x 4"	12 Gallons	DM15W-1D, 815114
CP820	7	7.21 @ 208	1500	13" x 10" x 4"	12 Gallons	DM15W-2D, 815214
CP821	15	7.21 @ 208	1500	21" x 10" x 4"	12 Gallons	DM15WW-2D, 815234



CPFLOAT



CPH802

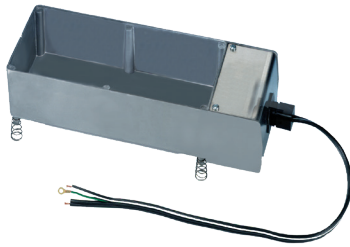
**REPLACEMENT PARTS FOR COMMERCIAL CONDENSATE EVAPORATOR PANS**

Part No.	Float No.	Heater No.	Microswitch No.	Thermostat No.
CP801	CPFLOAT	CPH801	CPS800	CPT800
CP802	CPFLOAT	CPH802	CPS800	CPT800
CP802-240	CPFLOAT	CPH802-240	CPS800	CPT800
CP804	CPFLOAT4	CPH8047	CPS800	CPT800
CP804-240	CPFLOAT4	CPH804-240	CPS800	CPT800
CP804HD	CPFLOAT4	CPH804HD	CPS800	CPT800
CP804HD-240	CPFLOAT4	CPH804HD-240	CPS800	CPT800
CP807	CPFLOAT4	CPH8047	CPS800	CPT800
CP807-240	CPFLOAT4	CPH807-240	CPS800	CPT800
CP808	CPFLOAT4	CPH808	CPS800	CPT800

Part No.	Float No.	Heater No.	Microswitch No.	Thermostat No.
CP815	CPFLOAT4	CPH815	CPS800	CPT800
CP815-240	CPFLOAT4	CPH815-240	CPS800	CPT800
CP816	CPFLOAT4	CPH816	CPS800	CPT800
CP817	CPFLOAT4	CPH817	CPS800	CPT800
CP818	CPFLOAT4	CPH818	CPS800	CPT800
CP819	CPFLOAT4	CPH819	CPS800	CPT800
CP820	CPFLOAT4	CPH820	CPS800	CPT800
CP821	CPFLOAT4	CPH821	CPS800	CPT800

**70 CONDENSATE DRAIN**

Authorized, Cost Effective Replacement Drain for Most Commercial Refrigerators and Freezers.



- PTC Control Supplies Only Required Heat to Evaporate Water
- Thermostat and Float NOT Required
- Self Regulating
- Uniform Heating
- UL® and CSA® (where noted) Approved
- Die Cast Aluminum Eliminates Corrosion
- Removable Cord Set for Easy Cleaning
- Fast Evaporation Rate (6 oz./hour)
- Low Profile (3") to Fit Tight Spaces

Part No.	Capacity	Volts	Watts	Amps	Evap. Rate	Size
70	50 oz.	120	300	2.61	4.5 oz/hr	12 1/4" x 4 3/4" x 3"
70-220	50 oz.	240	300	1.36	6 oz/hr	12 1/4" x 4 3/4" x 3"
70CSA*	50 oz.	120	190	1.65	6 oz/hr	12 1/4" x 4 3/4" x 3"
70CSA220*	50 oz.	240	190	.86	6 oz/hr	12 1/4" x 4 3/4" x 3"

\*CSA indicates CSA approval. \*\* All are 50/60 HZ

**30-OS, 31 & 75 CONDENSATE DRAINS**



- Standard Cast Aluminum Condensate Drains Complete with Long Life Heating Element and Mounting Legs
- Designed for Continuous Use

Part No.	Capacity	Volts	Watts	Amps	Evap. Rate	Size
30-OS	32 oz.	120	160	1.33	8 oz/hr	10" x 4" x 2 7/8"
30-220-OS	32 oz.	240	160	.73	8 oz/hr	10" x 4" x 2 7/8"
31	50 oz.	120	160	1.33	6 oz/hr	10" x 4 1/2" x 3 3/8"
31-220	50 oz.	240	160	.73	6 oz/hr	10" x 4 1/2" x 3 3/8"
75	75 oz.	120	320	2.67	14 oz/hr	10" x 9" x 2 3/4"
75-220	75 oz.	240	320	1.45	14 oz/hr	10" x 9" x 2 3/4"

\*\* All are 50/60 HZ

**30WM WALL MOUNT BRACKET**



- Wall bracket accessory for 30-OS series and 75 series pans
- Can also be used with 31 series pans

**SPCP SERIES**

High Quality and Dependable Pump that is Designed to Remove Condensate Water from AC Systems, Heating Systems, Ice Machines, Drinking Fountains and Coolers.



- 22 Feet of Standard Lift @ 10 GPH
- Independent N.C. Safety Switch & Motor Shuts Down AC System to Prevent Condensate Overflow
- Three 1/4" Quick Connect Terminals are Provided for Easy Connection
- Independent N.O. Audible Alarm Switch Rated @ 80dB
- Specially Designed Leak Free Motor & Safety Float
- 3/8" Rubber Ball Check Valve
- Vibration Absorbing Feet
- Metal Side Mount Tabs, 11-1/2" on Center Between Tabs
- 3 Inlet Holes
- Includes 6' Power Cord

**Sequence of Operation:**

1. Pump Motor is Activated When More Than 2 1/4" of Water Collects in Tank
2. Pump Motor is Off when Less Than 1 1/4" of Water Collects in Tank
3. Pump Alarm on Safety Switch Opens When More Than 2 3/4" of Water Collects in Tank
4. Each Pump Cycle Drives 1/4 Gallon of Water Out of the Tank

**Flow Rate Capacity**

<b>Lift Feet</b>	1	5	10	15	20	22	24
<b>GPH</b>	99	87	69	48	20	10	0

Part No.	SPCP115	SPCP230
hp	1/10hp	1/10hp
Voltage	120 VAC	230 VAC
Watts	80W	75W
Amps	1.45A	0.72A
Hertz	60Hz	60Hz
Motor Overload Protector	Yes	Yes
Whole Pump Height (In.)	7 1/4"	7 1/4"
Whole Pump Length (In.)	11 1/4"	11 1/4"
Whole Pump Width (In.)	5"	5"
Tank Size	1/2 Gal.	1/2 Gal.
Discharge	3/8" Barb	3/8" Barb
Tank Material	ABS	ABS
Impeller Material	Glassfiber filled PP	Glassfiber filled PP
Float Material	Polypropylene	Polypropylene
Shaft Material	S.S.304	S.S.304
Max. Temp. (°F)	110	110
Alarm	80 dB	80 dB
Auto Off with Dry Contacts	Yes	Yes
Float Activated	Yes	Yes

**CONDENSATE PUMP DRAIN TUBING**



Part No.	Size
CPT3825	3/8 x 25'
CPT38100	3/8 x 100'

**SCV1 CONDENSATE PUMP CHECK VALVE**



- Check Valve Accessory for SPCP Condensate Pumps

**JV1 JONES VALVE CONDENSATE DRAIN CLEANOUT VALVE**

**ICC International Mechanical Code**

**307.2.5 cleanouts.** Condensate drains shall be provided with a means to allow cleaning of the drain and clearing of blockages without having to cut or disassemble the piping.

**UNIFORM MECHANICAL CODE (UMC)**

**312.3.1** Condensate drain lines shall be configured or provided with a clean out to permit the clearing of blockages and for maintenance without requiring the drain line to be cut.



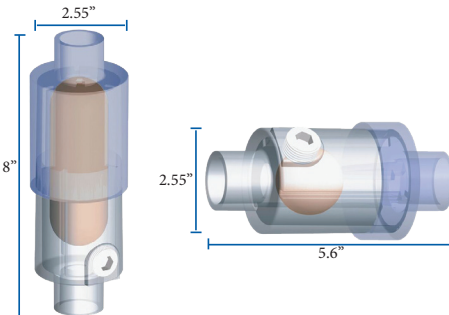
- Attaches to a CO2 or Nitrogen Tank
- Durable, Schedule 40 PVC Material
- Condensate Line Size: 3/4"
- Hose Connection Size: 1/4" Male Flare (with Schrader)
- U.S. Patent No. 8,375,977
- 1 Year Warranty
- 6 Pack Counter Display

## HVAC AIR-TRAP™ WATERLESS TRAPS

Typically, HVAC equipment is fitted with “P” traps that require water within a trap to prevent air from leaving or entering the unit. As a result, the “P” traps are susceptible to freezing. At other times, the traps dry out allowing air to escape or enter the HVAC equipment. In negative pressure systems this can result in condensate backing up in the equipment and spilling into ductwork or down into the building causing damage. In positive pressure systems, an ineffective trap results in conditioned air being expelled and loss of equipment capacity/efficiency. Des Champs® Waterless Traps are available in N-Series for negative pressure and P Series for positive pressure applications. Both are available in 3/4”, 1”, 1-1/4”, 1-1/2” line sizes and transparent or white PVC bodies.

- Prevent dry trap syndrome
- Prevent freezing-expansion-bursting
- No back up of condensate in drain pan
- Schedule 40 white or clear PVC
- Clean-out port for easy maintenance of the drain line per the 2015 Mechanical and Residential Codes
- Keep unconditioned air from entering air handler
- Reduce the trap height required by approximately 50%.
- Never requires the addition of water

### POSITIVE & NEGATIVE PRESSURE WATERLESS TRAPS



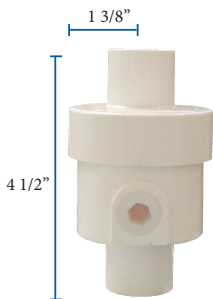
- Vertical or Horizontal mount
- Allows condensate to drain from HVAC equipment
- Prevents air from entering or escaping the system
- Operates wet or dry
- Schedule 40 Clear PVC or Schedule 40 White PVC

Trap		Description
Vertical	Horizontal	
PPC34V	NPC34H	3/4", CLEAR
PPC1V	NPC1H	1", CLEAR
PPC114V	NPC114H	1 1/4", CLEAR
PPC112V	NPC112H	1 1/2", CLEAR
PPW34V	NPW34H	3/4", WHITE
PPW1V	NPW1H	1", WHITE
PPW114V	NPW114H	1 1/4", WHITE
PPW112V	NPW112H	1 1/2", WHITE



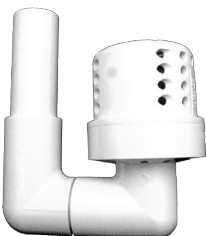
## RLC051 RESIDENTIAL HVAC AIR-TRAP™

The standard “P” trap used in condensate lines for HVAC equipment requires water within the trap to prevent air from leaving or entering the unit. These traps can freeze, resulting in condensate backing up and causing water damage or the “P” trap can dry out and allow air to escape from the system, affecting efficiency. The RLC051 waterless trap offers a solution that requires no water for residential applications.



- The Air-Trap will never freeze and break
- No more issues caused by traps drying out
- Schedule 40 PVC with clean out port
- Retains no water after condensing has ceased
- Predesigned to prevent field errors
- Reduces trap height by up to 60%
- Eliminates sludge build-up at bottom of “U” tube
- No more geysers under negative pressure
- No more blow-through under positive pressure
- 3/4” slip internal or 1” fitting external connection- with bushings can connect to 1/2, 1 1/4, 1 1/2 and 2” tubes
- Meets general building codes. For use on HVAC equipment only. Not for use as a sanitary trap.

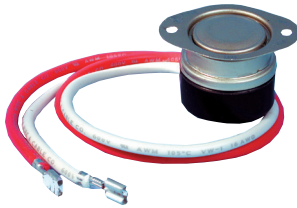
## DP34 3/4” DRAIN PLUS



- Lifetime Warranty
- Prevents ‘Dry Trap’ syndrome
- Easy installation
- Removable cap for easy cleaning and inspection of lines
- Replaces conventional PVC P-traps
- Material: 3/4” Schedule 40 PVC



SL SERIES EXACT REPLACEMENT REFRIGERATION THERMOSTATS



- Surface Mount
- 2-wire Heater Limit
- SPST
- Resistive Amps: 25
- Volts AC: 120/240

SUPCO® Part No.	Open (°F)	Close (°F)	Mount	Replaces
SL5708	75	40	Surface	Bohn®, Larkin®, Chandler®, Climate Control® 5708L & 4752C



- Surface Mount
- 3-wire Fan and Defrost Terminator 55°F-35°F Range
- SPDT
- Resistive Amps: 25
- Volts AC: 120/240

SUPCO® Part No.	Open (°F)	Close (°F)	Mount	Replaces
SL5709	55	35	Surface	Bohn®, Larkin®, Chandler®, Climate Control® 5709L & 4751C



- Black- Open on Rise
- Brown- Close on Rise
- Red- Common



- Tube Mount (5/8")
- 3-wire Defrost Control
- SPDT
- Resistive Amps: 25
- Volts AC: 120/240

SUPCO® Part No.	Open (°F)	Close (°F)	Mount	Replaces
SL79002	55	35	Tube	Russell®103079002

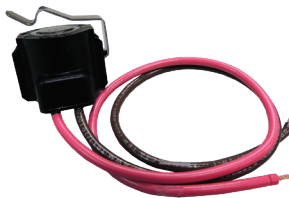


- Black- Close on Rise
- Brown- Close on Fall
- Red- Common



- Surface Mount
- 3-wire Defrost Control
- SPDT
- Resistive Amps: 25
- Volts AC: 120/240

SUPCO® Part No.	Open (°F)	Close (°F)	Mount	Replaces
SL79005	65	30	Surface	Russell®103079005



- Tube Mount
- 2 Wire
- Mounting Clip fits 3/8" tube

SUPCO® Part No.	Open (°F)	Close (°F)	Mount	Replaces
SL25581	45	18	Tube	Whirlpool®, Admiral®, Amana®, Crosley®, Estate®, Jenn-Air®, Kenmore®, Kitchen-Aid®, Magic Chef®, Maytag® and Roper®



ML SERIES



- Metal Case with Waterproof Epoxy Potting
- Heavy Duty Rating 10 Amps @ 120 Volts / 5 Amps @ 240 Volts
- Residential and Commercial Applications
- Switching is SPST
- Up To 1200 Watts

SUPCO® Part No.	Open °F	Close °F	Diff. °F	Mars®	Uniline®
ML37	37	47	10	...	...
ML45	45	20	25	33008	31-001 17001
ML50	50	20	30	33009	31-002 17003
ML55	55	20	35	33010	31-003 17005
ML60	60	20	40	33011	31-004 17007
ML70	70	20	50	33012	31-005 17009
ML80	80	50	30	33020	31-006 17011



SLT SERIES



- Metal Case with Waterproof Epoxy Potting
- Heavy Duty Rating 10 Amps @ 120 Volts / 5 Amps @ 240 Volts
- Residential and Commercial Applications
- Switching is SPST
- Rated Up To 1200 Watts
- Uses SL249 Tube Clip



Part No.	Open °F	Close °F	Diff. °F
SLT45	22	45	23
SLT50	50	10	40
SLT55	25	55	30

MOUNTING CLIPS



Part No.	Style
SL243	Surface / Flush Mounting Clip



Part No.	Style
SL245	Push In Mounting Clip

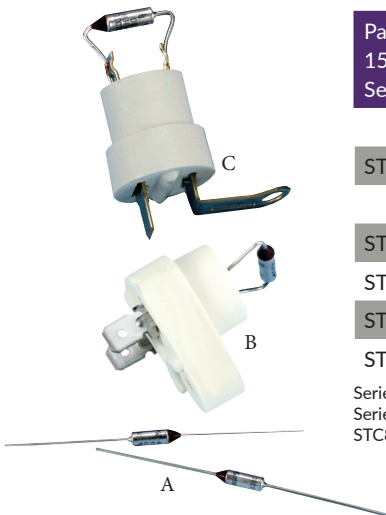


Part No.	Style
SL247	5/16" or 3/8" Around Tube Clip



Part No.	Style
SL249	5/16" & 3/8" Side Tube Clip

THERMAL CUT OFFS

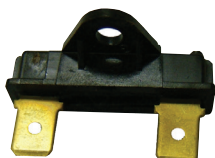


Part No. 15 Amp Series 1	Part No. 25 Amp Series 2	Open Temp °C	Open Temp °F	Style	Part No. 15 Amp Series 1	Part No. 25 Amp Series 2	Open Temp °C	Open Temp °F	Style
	STC8170	77	170	A	STC4358		184	363	A
STC4228		109	228	A	STC4438		226	438	A
	STC8242	117	242	A	STC4468		242	468	A
STC4257		125	257	A	STC5257		125	257	B
STC4283	STC8283	139	283	A	STC5300		149	300	B
STC4300		149	300	A	STC5333		167	333	B
STC4333		167	333	A	STC5377		192	377	B
					STC6257		125	257	C
					STC86283		139	283	C
					STC6300		149	300	C
					STC6333		167	333	C
					STC86377		192	377	C

Series 1 Maximum Wattage 1800W @ 120V/2400W @ 240  
 Series 2 Maximum Wattage 1800W @ 120V/6000W @ 240  
 STC8170, STC8242, STC8283 Electrical Rating: G8AO1O

STC4358 Electrical Rating: G4AO1  
 STC5257, STC5300, STC5333, STC5377 Electrical Rating: G4AMO6  
 STC6333 Electrical Rating: GHAMO4  
 STC86377 Electrical Rating: G8AMO4OO

36T ELECTRICAL RATING:  
 TYPICAL ELECTRICAL RATINGS TEMP RANGE: -40°F TO 350°F



Part No.	Terminals	°C	°F	Style
STF4170	QC. 1/4"	77	170	36T
STF4230	QC. 1/4"	110	230	36T
STF4291B	QC. 3/16"	144	291	36T

Maximum Wattage 1800W @ 120V/2400W @ 240  
 STF4291B Electrical Rating: G4AP02OO

Volts (VAC)	Resistive (Non-Inductive)	Motor Rating (Inductive)		
		Full Load	Locked Rotor	Pilot Duty
120	15A	3A	12A	125VA
240	10A	1.5A	6A	125VA

350°F Max Ambient Temperature

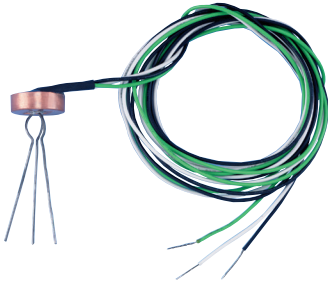
**SH200 SERIES FLEXIBLE BRAIDED ALUMINUM DRAIN HEATERS**



- Aluminum Construction
- Variety of Lengths and Wattages Available
- Available in 220 Volts, Special Order
- 200 pc. minimum

Part No.	Volts	Watts	Size (In.)	Leads (In.)
SH201	120	15	18	23
SH202	120	45	29	23
SH203	120	55	44	23
SH204	120	75	48	23
SH206	120	80	70	23
SH207	120	110	86	23

**SH250 UNIVERSAL DRAIN HEATER**



- Used With Existing Heater or Where No Heater Exists
- Available in 240 Volts. Special Order 200 pc. minimum
- Designed for "Series Wiring Connection" Only

Part No.	Volts	Watts
SH250	120	3

**SH500 SERIES DRAIN HEATERS**



- Durable Metal Braid
- Available in 240 Volts, Special Order 200 piece minimum
- Heater Tip 7/16" Diameter
- Silicone Construction
- Designed for Waterproof Low Wattage Heat

Part No.	Volts	Watts	Size (In.)	Leads (In.)
SH500	120	11	9	18
SH502	120	15	13	18
SH503	240	15	13	18
SH504	120	25	21	18
SH505	240	25	21	18

**SH220 SERIES ALUMINUM FOIL HEATERS**



- Pressure Sensitive Adhesive Backing For Easy Installation
- Six Assorted Shapes and Wattages
- Available in 240 Volts, Special Order 200 piece minimum

Part No.	Volts	Watts	Size (In.)	Leads (In.)
SH221	120	6	10 x 1	18
SH222	120	10	24 x 1 1/4	18
SH224	120	65	27 1/2 x 5 1/2	18
SH225	120	15	10 1/2 x 10 1/2	18
SH226	120	40	10 1/2 x 10 1/2	18

**SH280 SERIES DOOR HEATERS MULLION & DEW POINT**



- Prevents Moisture on Glass Display Doors
- Eliminates Frost Build Up on Doors & Cabinet Fronts

Part No.	Volts	Watts	Size (Ft.)
SH281	120	3	36 1/2
SH282	120	3	18
SH283	240	3	36
SH284	240	3	18

All SUPCO® Drain and Door Heaters are Designed for Continuous Use to Protect Drains Against Ice Build Up which Leads to Clogging. All of these Heaters Cannot be Cut, Spliced, Extended or Altered in Any Way.

## UNIT BEARING WATT MOTORS

For Commercial and Domestic Refrigeration Equipment, Room and Hood Ventilators, Room Heaters, Evaporative Coolers and Various Other Equipment.

- Cast Aluminum Housing Up to 16 Watts
- Cast Iron Housing for 35 to 50 Watts
- Single Speed, 1550 RPM
- Single Rotation
- Rotation is Determined by Viewing Opposite Shaft End (OSE)
- 50/60 Hz
- Totally Enclosed

- Overload Protected
- Permanent Lubrication
- Sleeve Bearings
- Universal Mounting
- Threaded Mounting Holes
- Hardware Included
- UL® Approved



## Aluminum Unit Bearing



Part No.	Watts	Volts	Amps	Rotation	Shaft Diam. (In.)	Shaft Length (In.)
SM5109	2	120	0.28	CWOSE	1/4 Threaded	1/2
SM5211	4	120	0.36	CWOSE	1/4 Threaded	1/2
SM5212	4	120	0.32	CCWOSE	1/4 Threaded	1/2
SM5221	4	240	0.16	CWOSE	1/4 Threaded	1/2
SM5222	4	240	0.16	CCWOSE	1/4 Threaded	1/2
SM5311	6	120	0.52	CWOSE	1/4 Threaded	1/2
SM5312	6	120	0.43	CCWOSE	1/4 Threaded	1/2
SM5411	9	120	0.60	CWOSE	1/4 Threaded	1/2
SM5412	9	120	0.64	CCWOSE	1/4 Threaded	1/2
SM5421	9	240	0.32	CWOSE	1/4 Threaded	1/2
SM5422	9	240	0.32	CCWOSE	1/4 Threaded	1/2
SM5811	16	120	0.92	CWOSE	1/4 Threaded	1/2
SM5812	16	120	0.92	CCWOSE	1/4 Threaded	1/2
SM5821	16	240	0.48	CWOSE	1/4 Threaded	1/2
SM5822	16	240	0.48	CCWOSE	1/4 Threaded	1/2

## Cast Iron Unit Bearing



Part No.	Watts	Volts	Amps	Rotation	Shaft Diam (In)	Shaft Length (In.)
SM351	35	120	1.4	CWOSE	1/4 Threaded	1/2
SM352	35	120	1.4	CCWOSE	1/4 Threaded	1/2
SM353	35	240	0.7	CWOSE	1/4 Threaded	1/2
SM354	35	240	0.7	CCWOSE	1/4 Threaded	1/2
SM501	50	120	1.7	CWOSE	3/8 Smooth Flatted	1/2
SM502	50	120	1.7	CCWOSE	3/8 Smooth Flatted	1/2
SM503	50	240	0.85	CWOSE	3/8 Smooth Flatted	1/2
SM504	50	240	0.85	CCWOSE	3/8 Smooth Flatted	1/2

SUPCO® Unit Bearing Motors are Manufactured with the Highest Quality Components. They are Manufactured and Tested to Meet Our High Standards and Specifications.



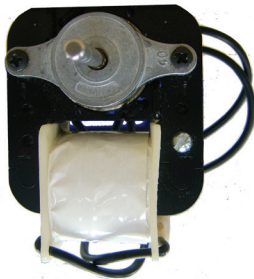
**SM600 SERIES EXACT REPLACEMENT & UTILITY MOTOR KITS**



- Versatile Replacement for All “C” Frame and 3 1/2” Round Style Motors
- Impedance Protected
- SM670, SM672, SM673 and SM690C Include Fan Blades FB402 and FB550
- SM675 is Thermal Protected
- SM675 Includes Fan Blade FB550 Only
- Motor Kits Include Complete Hardware and Mounting Kits

Part No.	Type	Volts AC	RPM	Shaft Dimensions (In.)	Stack Size (In.)	Rotation (Reversible)
SM670	Sleeve	120	3000	3/16 x 1 1/4	5/8	CW/CCW
SM671	Sleeve	120	3000	3/16 x 1 1/4	5/8	CW/CCW
SM672	Sleeve	240	3000	3/16 x 1 1/4	5/8	CW/CCW
SM673	Sleeve	120	3000/1550	3/16 x 1 1/4	5/8	CW/CCW
SM675	Sleeve	120/240	3000	3/16 x 2 3/8	1	CW/CCW
SM690C	Sleeve	120	3000	3/16 x 1 1/4	5/8	CW
SM6700B	Sleeve	120	3000	3/16 x 1 1/4	5/8	CW/CCW

**SM6700B MOTOR KIT ASSEMBLY**



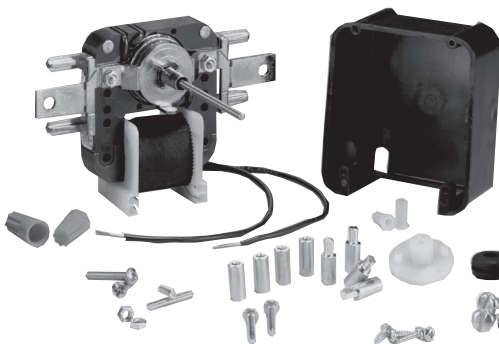
- Replaces Acme Miami® 700
- OEM Replacement for Bohn®, Heatcraft®, Uppco®, Singer®, GE® 33 Series
- Kit Includes Reversible Motor, Three Fan Blades, Hardware Kit and Instructions

**SM6700B Replacement Fan Blades 3/16” Hub**

FB402	4”, CW, 5 Wing
FB455 (Bohn® 5101B)	5 9/16”, CCW, 5 Wing
FB550	5 1/2”, CCW, 4 Wing



**SM999 UNIVERSAL EVAPORATOR FAN MOTOR KIT - 120 VAC & SM998 UNIVERSAL EVAPORATOR FAN MOTOR KIT - 220 VAC**



**SM999**

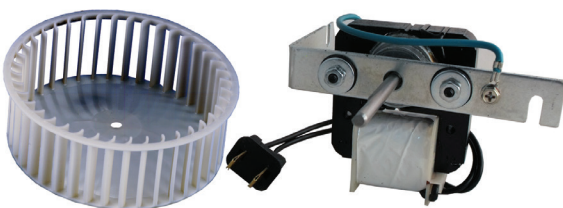
- Replaces Over 450 Different Evaporator Type Motors
- Prefastened Multi Fit, Break Off Mounting Bracket
- Break Off 2” Motor Shaft with Breakaways at 1/2” and 1 1/2”
- Includes All Mounting Accessories and Hardware
- Reversible Rotation
- Single Speed

Part No.	Description
SM999	120 VAC, 3000 RPM, 1/200 hp, .31 Amp Impedance Protected
SM998	220 VAC, 3000 RPM, 1/200 hp, .31 Amp Impedance Protected

**SM998**

- Direct Replacement for the Mars® 90998

**SM140-40A BLOWER FAN ASSEMBLY**



- Direct Replacement Kit for Nutone® Bath Fans
- Replaces Nutone® Motor P/N K5895 and Kit P/N K5894
- Kit Includes Single Speed Motor, 3 3/4” x 2” Blower Wheel and Mounting Bracket
- Motor Includes 6” Wire Leads with Molded Plug

SUPCO® Part No.	Speed	RPM	Volts	Amps	Rotation	Nutone®
SM140-40A	1	2400	115	0.9	CCWSE	K5894 Motor Kit



ST100 SERIES GENERAL PURPOSE TIMER SWITCHES



- Economical
- Electromechanical Switching
- Single Pole or Double Pole
- Non-corrosive NEMA 1 Case
- Switch Rating: 40A, Resistive
- 2 ON and 2 OFF trippers
- Dimensions: 7.9" x 5.3" x 3"
- Operating Temperature: -22°F to 158°F

SUPCO® Part No.	Volts	Switch	Paragon®	Intermatic®	Precision®
ST101	120	SPST	4001-00	T101	CD101
ST102	240	SPST	4002-71	T102	CD102
ST103	120	DPST	4003-00	T103	CD103
ST104	240	DPST	4004-71	T103	CD104

Accessory		
STPIN	Dial Pins	2 Pins Per Pack

S8000 SERIES COMMERCIAL DEFROST CONTROLS



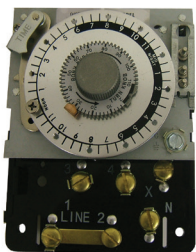
- Heavy-duty Synchronous Motor
- Adjustable Defrost Frequency up to 6 Times Per Day
- Adjustable Cycle Duration from 4 to 110 Minutes
- Heavy-duty Steel Case

Accessory		
X3596	Dial Pins	5 Pins Per Pack

Specifications	
Operating Voltages	120 or 208/240 VAC, 60 Hz
Amperage	40-Amp Non-inductive @ 120, 208 or 240 VAC
Maximum hp	2 hp @ 120, 208 or 240 VAC
Pilot Duty	690 VA @ 120, 208 or 240 VAC
Operating Temperature Range	-35°F to 175°F
Overall Case Dimensions	7.697" H x 4.4" W x 3.8" D
Shipping Weight	S8040 Series 3.5 lbs. & S8141 Series 3.75 lbs.

Part No.	Voltage	Switching		Time Initiated Time Terminated	Time Initiated Temperature or Pressure Terminated	Paragon®
		NO (Normally Open) NC (Normally Closed)				
S804100	120/60 Hz	1 NO / 2 NC		YES	NO	8041-00
S804120	240/60 Hz	1 NO / 2 NC		YES	NO	8041-20
S804500	120/60 Hz	1 NO / 1 NC		YES	NO	8045-00
S804520	240/60 Hz	1 NO / 1 NC		YES	NO	8045-20
S814100	120/60 Hz	1 NO / 2 NC		NO	YES	8141-00
S814120	240/60 Hz	1 NO / 2 NC		NO	YES	8141-20
S814500	120/60 Hz	1 NO / 1 NC		NO	YES	8145-00
S814520	240/60 Hz	1 NO / 1 NC		NO	YES	8145-20
S814521	240/50 Hz	1 NO / 1 NC		NO	YES	8145-21

M814520 COMMERCIAL DEFROST MECHANISM



Exact Drop-in Replacement Mechanism for Paragon® 8145-20 and SUPCO® S814520



Sold in Convenient 6-Pack Counter Display!

**EXACT REPLACEMENT PLASTIC IMPELLERS**



- Broan® & Nutone® Exact Replacement Impellers

SUPCO® Part No.	Replaces	Blade O.D.	Hole I.D.
SB001	Nutone® 68920	4 5/8"	.181
FB460	Broan® 9910379H	4 9/16"	.218

**PLASTIC BLOWER WHEELS**



Part No.	Shaft Rotation	Bottom Diameter	Depth	Top Diameter	Replaces
FB250	1/8" CW	2 1/2"	1"	2 11/16"	
FB590	1/4" CW	5 3/4"	2"	6 1/8"	Nutone® 59000A

**PLASTIC VENT HOOD FAN BLADES**



- Ducted & Non Ducted Vent Hoods

Part No.	Shaft	Diameter	No. Blades	Rotation	Pitch	Volume
FB660	7/32"	6 5/8"	5	CW	25°	High
FB665	7/32"	7/32"	5	CW	12°	Standard

Use with SM500 series or SM700 series that have 7/32" w/ flat shaft.  
Replaces Nutone 68929300 and many Broan blades.

**PLASTIC FAN BLADES - GENERAL PURPOSE**

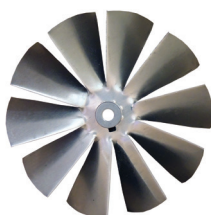


- Celcon Plastic Construction
- Light Weight Design Reduces Bearing Wear & Vibrations
- 2 1/2" to 7" Diameter Sizes Available (1/2" increments)
- Integral Hub Available in 1/8", 3/16", 1/4" & 5/16" Sizes
- Color Coded Rotation White = CW Gray = CCW
- Eliminates Bent or Misaligned Blades
- Low Air Noise

Part No.	Shaft	Diameter	No. Blades	Rotation
FB350	3/16"	3 1/2"	4	CW
FB401	1/8"	4"	5	CW
FB402	3/16"	4"	5	CW
FB403	1/8"	4"	5	CCW
FB404	3/16"	4"	5	CCW
FB501	3/16"	5"	5	CW
FB504	3/16"	5"	5	CCW
FB550	3/16"	5"	4	CCW

Part No.	Shaft	Diameter	No. Blades	Rotation
FB601	3/16"	6"	6	CW
FB604	3/16"	6"	4	CCW
FB650	3/16"	6 1/2"	5	CW
FB651	1/4"	6 1/2"	5	CW
FB702	5/16"	7"	5	CW
FB703	1/4"	7"	5	CCW

**ALUMINUM FAN BLADES - GENERAL PURPOSE**



- 22 Gauge Aluminum Alloy Construction
- Light Weight Design Reduces Bearing Wear & Vibration
- 4" to 6 1/2" Diameter Sizes Available (1/2" increments)
- Slotted Set Screw Hub Sizes 3/16", 7/32" & 1/4"
- Clockwise or Counter Clockwise Rotations

Part No.	Shaft	Diameter	No. Blades	Rotation	Pitch
FB152	3/16"	4"	10	CCW	35
FB159	1/4"	4 1/2"	10	CCW	40
FB180	1/4"	6"	4	CW	20

PLASTIC FAN BLADES - DIRECT REPLACEMENT & HUB TYPE



- Available in Hub or Shaft Mount 1/8", 3/16"
- Clockwise & Counter Clockwise Rotations

Part No.	Shaft	Diameter	No. Blades	Rotation	Replaces
FB450	1/8"	4 1/2"	5	CCW	GE® WR60X114
FB455	3/16"	5 9/16"	5	CCW	Bohn® 5101B

ALUMINUM CONDENSER FAN BLADES



- Aluminum Construction
- 6" to 10" Diameter
- Clockwise & Counter Clockwise Rotations
- 5 Blades

Part No.	Diameter	No. Blades	Rotation	Pitch
FB101	6"	5	CW	30°
FB103	7"	5	CCW	20°
FB104	7"	5	CW	20°
FB105	8"	5	CCW	20°
FB106	8"	5	CW	20°
FB107	8 3/4"	5	CW	20°
FB108	10"	5	CCW	29°
FB109	10"	5	CW	22°

SPC660L, SPC836L, SPC990L COMPRESSORS



SPC600L

Refrigeration Compressors Include Electrical Accessories, Grommets and Sleeves.

- Compact 4" x 6" Footprint
- 60 Hz.
- 110V/120V
- Low Back Pressure
- Relay Start Capacitor Run (PTC)
- Relay Start Capacitor Run (RSCR)



SPC836L

Part No.	HP	BTU	Amps	Watts
SPC660L	1/5	660	1.2	126
SPC836L	1/4	836	2.5	181
SPC990L	1/4	990	2.2	196



SPC990L





**FULL GAUGE® COMMERCIAL CONTROLS**

- Dual Voltage: 115/230 V
- 2 Year Warranty
- °F/ °C Selectable
- Waterproof Front Panel (IP-65)

SUPCO® is the EXCLUSIVE North American Master Distributor for Full Gauge®

**MT512E2HP MEDIUM TEMPERATURE CONTROLLER**



- Single relay output
- Manual defrost control
- Min/ max record
- One temperature sensor

**MT512ELOG MEDIUM TEMPERATURE CONTROLLER**



- Same as MT512E 2HP and
- Communication via USB or RS-485
  - Data logger
  - Serial output for system communication (Sitrad)

**MT512RIPLUS MEDIUM TEMPERATURE CONTROLLER**



**MT512EL2HP MEDIUM TEMPERATURE CONTROLLER**



**MT514E TEMPERATURE CONTROLLER**



- Audible alarm
- Configurable outputs of control
- 1 sensor

**MT516RI TEMPERATURE CONTROLLER**



- Min/ max record
- Time delay
- Temperature controller with cycle timer

**MT530ESUPER TEMPERATURE & HUMIDITY CONTROLLER**



- 3 outputs: temperature, humidity, auxiliary
- Integrated alarm
- Min/ max record
- Serial output for system communication (Sitrad)

**MT543RIPLUS TEMPERATURE CONTROLLER**



- 3 outputs
- Integrated alarm
- Cycle timer
- Serial output for system communication (Sitrad)
- 3 configurable outputs of control
- Multi-stage controller

**TC900EPOWER LOW TEMPERATURE CONTROLLER**



- 3 relay outputs (16A comp relay)
- 2 sensors included
- 2 digital inputs
- Two defrost operating modes including "on demand defrost"

**TC900ELOG LOW TEMPERATURE CONTROLLER**



- Same as TC900E POWER and
- Internal audible alarm
  - Data logging
  - Serial output for system communication (Sitrad)
  - Communication via USB or RS-495



**TC900RICLOCK LOW TEMPERATURE CONTROLLER**



**PHASELOGEPLUS VOLTAGE MONITOR**



- True rms measurements
- Data logger
- 3 phase; monitors for: Undervoltage, Overvoltage, Phase loss, Phase sequence
- Serial output for system communication (Sitrad)

**FULL GAUGE® ACCESSORIES**

**CONV32EX SERIAL INTERFACE**



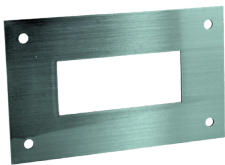
- Connect up to 32 controllers
- Interface via USB or RS-485

**SB412M TEMPERATURE PROBE**



- NTC sensor
- Temperature range: -58°F to 221°F (-50°C to 105°C)

**FGMP203545 MOUNTING PLATE**



- 3.5x5 in
- 4 hole cover plate
- Stainless steel

**SB59 LOW TEMPERATURE SENSOR**



**ECASE PROTECTIVE CASE**



- Prevents moisture in the controller's terminals

**ME01 EXTENSION FRAME**



**BC01 JUNCTION BOX**



- Internal protection to reduce noise

**EASYPROG PROGRAM KEY**



- Allows storage for 9 individual programs
- Copy the information from one controller and download to other controllers without the need for a PC
- USB Connection

**VG640D VACUUM SENTRY**



- DUAL Port Vacuum Gauge
- Multi-Point Sensor Technology
  - BEST Resolution (0.5 Micron)
  - Easy-to-Clean LIFETIME Sensor Never Needs Replacing
  - Large, Backlit Display
  - High & Low, Audible and Visual Threshold Alarms
  - Built-in Hanger
  - 1/4" Male Flare Connection
  - 2 Year Warranty

Specifications		
Sensor Type	Thermistor	
Connector Type	Standard 1/4 Inch Male Flare Fitting	
Vacuum Range	0-19,000 Micron (0-2,600 Pascal)	
Resolution	Measurement Range Resolution	
	0-140	0.5 Microns
	140-400	1 Microns
	400-800	2 Microns
	800-2000	5 Microns
	2000-6000	20 Microns
	6000-9000	100 Microns
	9000-16000	200 Microns
16000-19000	1000 Microns	
Units	Microns, milliBar, Pascal, Torr, milliTorr	
Accuracy	+/-10% or +/-10 Micron, whichever is larger (50 to 2000 Microns) at 75°F	
Update Rate	0.5 sec.	
Alarm	Audible and Visual Alarm for High and Low Vacuum	

Specifications	
Remote Alarm (R100)	Up to 400 ft Remote Audible, Visual and Vibrating Alarm for High and Low Vacuum
Alarm Volume	87 dB for Both Unit and Remote
Op.Temp. Range	0°F to 150°F (-17°C to 65°C)
Overpressure	800 PSI max (55 Bar)
Power Source	3 AA Batteries
Battery Life	600 Hours Continuous Usage, with Battery Indicator
Auto Shutoff	8 Hours when Alarms are Active  When Alarms are Disabled: <ul style="list-style-type: none"> <li>• 10 Minutes when Vacuum Reading is above 19,000 Microns</li> <li>• 1 Hour when Vacuum Reading is below 19,000 Microns</li> </ul>
Weight	6 oz
Dimensions	5.5" H x 2.75" W x 1.5" D

**VG64 DIGITAL VACUUM GAUGE**



- Ultra Fine Resolution
- Reads Vacuum in 7 International Units
- Display Updates Every 1/2 Second
- Convenient Built in Hanger
- Cleaning Port Provides Quick Cleaning and Drying of Sensor
- Low Battery Indicator
- VG64S has Single Port Connection (includes fitting)
- Power Source: 9V Battery (Not Included)
- Auto Shutoff: Yes
- Dimensions: 5 1/2" x 3" x 1 1/4"
- Weight: 6.7 oz.

Specifications		
Sensor Type	Thermistor	
Connector Type	Standard 1/4" Male Flare Fitting	
Vacuum Range	0-12,000 Microns (0-1,600 Pascals)	
Scale	Microns, PSI, InHg, milliBars, Pascals, Torr, milliTorr	
Resolution	Measurement Range Resolution	
	0-200	1 Micron
	201-500	5 Microns
	501-1,000	10 Microns
	1,001-2,000	50 Microns
	2,001-5,000	250 Microns
	5,001-8,000	500 Microns
	8,001-12,000	1000 Microns
Operating Temperature Range	35°F to 125°F (2°C to 52°C)	
Overpressure	500 PSI Max (20 Bar)	
Accuracy	+/- 10% (100-1000 Micron)	

### VGC VACUUM GAUGE COUPLER



- 1/4" Female flare connections
- Brass construction

Accessory to VG640D:

VGC Vacuum Gauge Coupler

### R100 REMOTE ALARM RECEIVER



- Audible, Visual and Vibrating Alarm
- Integrated Belt Clip

Specifications	
Distance	Up to 400 ft.*
Alarm	Audible
Alarm Volume	87 dB
Operating Temperature Range	20°F to 160°F (-29°C to 71°C)
Power Source	9 V Battery
Battery Life	45 Hours Continuous Usage, with Low Battery Audible Indicator.
Weight	3 oz
Dimensions	5.0" H x 2.5" W x 1.0" D

\* Distance is measured when the remote receiver is within a direct line of sight of the VG640D. Obstructions between the remote and the VG640D can reduce this distance.

### VG60 ELECTRONIC VACUUM GAUGE



10 Segment Color Coded LED Readout Provides Fast Response of Vacuum Measurements

- Pocket Size - Only 5 1/2" x 1 3/4" x 1 1/2"
- Cleanable Sensor
- Single Switch Operation
- Low Battery Indication
- Color Coded LED Display
- Built-in Hanger
- Soft Case Included (MCASE)

Specifications	
Sensor Type	Thermistor
Connector Type	Standard 1/4" Male Flare Fitting
Vacuum Range	50-5,000 Microns
Scale	Microns, 10 LED Segments Atmosphere to 50 Microns
Overpressure	500 PSI Max (20 Bar)
Power Source	9 V Battery (not included)
Auto Shutoff	No
Dimensions	5 1/2" x 1 3/4" x 1 1/2"
Weight	6.8 oz.
Operating Temperature Range	35°F to 125°F (2°C to 52°C)

**VG61 ELECTRONIC VACUUM GAUGE**



Enjoy the Same Features as the VG60 in a Durable Hard Case. Sensor Cord Extends to 5 Feet

- Cleanable Sensor
- Single Switch Operation
- Low Battery Indication

Specifications	
Sensor Type	Thermistor
Connector Type	Standard 1/4" Male Flare Fitting
Vacuum Range	50-5,000 Microns
Scale	Microns, 10 LED Segments Atmosphere to 50 Microns
Operating Temperature Range	35°F to 125°F (2°C to 52°C)
Overpressure	500 PSI Max (20 Bar)
Power Source	9 V Battery (not included)
Auto Shutoff	No
Dimensions	9 1/2" x 6 3/4" x 2 3/4"
Weight	1.8 lbs.

**DPG25V/DPG100/DPG1000 DIGITAL PRESSURE GAUGES**



The DPG Series Features Multiple Units, Selectable Zero Reference and Automatic Power Off to Conserve Battery Power. The DPG100/DPG1000 Can be Used with Any Media Compatible with 17-4PH Stainless Steel.

- High Accuracy
- Measurement Units PSI, Bar, kg/cm<sup>2</sup>, ATM
- Easy to Use
- Stainless Steel Sensor

DPG Series Common Specifications	
Stability (1 year)	±0.25% FS (typ)
Overrange Protection	2X Rated Pressure
Burst Pressure	5X or 20,000 psi whichever is less.
Pressure Cycles	>100 Million
Operating Temperature Range	32°F to 130°F (0°C to 55°C)
Storage Temperature Range	-40°F to 150°F (-40°C to 65°C)
Compensated Temperature Range	32°F to 130°F (0°C to 55°C)
Temperature Compensation Zero	<±1.5% of FS
Temperature Compensation Span	<±1.5% of FS
Pressure Sensor Connection	1/8 NPT Female
Update Rate	3 Samples per Second (typ)
Power	9 Volt Alkaline Battery
Automatic Power Off	1 Hour
Battery Life	100 Hours Continuous Operation (typ)

	DPG25V	DPG100	DPG1000
Pressure Range	-14.7 to 25 PSI	-14 to 100 PSI	-14 to 1000 PSI
Measurement Units	InHg, PSI,	PSI, BAR, Kg/cm <sup>2</sup> , ATM	PSI, BAR, Kg/cm <sup>2</sup> , ATM
Resolution PSI	0.1	0.1	1.0
InHg	0.01	*	*
BAR	*	0.01	0.1
Kg/cm	*	0.01	0.1
Atm	*	0.01	0.1
Accuracy		< ± 0.5% (includes Non-linearity, Hysteresis and Non-repeatability)	



**CRTH2 TEMPERATURE/ HUMIDITY/DEW POINT RECORDER**



- Selectable Chart Speeds from 1 1/2 hours to 31 days.
- Measures Temperature, Humidity and Dew Point
- Advanced, Reliable Micro-controller Design
- Built-in "Last Setting" Memory
- Easy-to-use Membrane Keypad
- All Functions User Selectable from Front Panel
- °F/°C Selectable
- Remote Combination Temperature/Humidity Probe with 6 Foot Cable
- Field Calibration of Probe
- Combination of 24 Speed and Temperature Ranges
- Chart Number Displayed when Time & Temperature Ranges Selected
- Two (2) Independent Pens

- Alarm with Delay for Over and Under Temperature & Humidity
- Audible and Visual Alarm Indication
- Remote Alarm or Telephone Dialer Connection (Optional Auto-dialer - ADTA)
- Standard 120-240 VAC Operation
- 48 Hour Battery Back-up
- Low Battery Warning on Display
- Durable Polycarbonate Case with Full-view Cover
- Free Standing or Wall Mount
- Snap-on Extra Support Legs
- Fold Away Carrying Handle

Specifications	
Temp Range/Accuracy	-40°F to 130°F +/- 2°F (-40°C to 55°C +/- 1°C)
RH Range/ Accuracy	0 to 90% (non condensing) at 32°F to 130°F +/- 10% (0°C to 55°C) ambient
Dew Point Range	32°F to 130°F (0° to 55°C)
Chart Diameter	6 inches
Chart Rotation Mode	Continuous or Single turn
Chart Rotation Speed	1.5, 3, 6, 12 & 24 hrs, 7 & 31 days
Chart Speed Accuracy	±1%
Charts	60 assorted included
Display	LCD 16 characters x 2 lines

Specifications	
Temperature Alarm Range	-20°F to 120°F (-30°C to 50°C)
Relative Humidity Alarm Range	0 to 90%
Alarm Delay	NO DELAY, 10 mins., 30 mins., 1 hr. or 2 hrs.
Remote Alarm Connection	NO, 48 VAC/DC, 0.1 A resistive load
Ambient Operating Temperature	32°F to 120°F (0°C to 49°C)
Primary Power	120/240 VAC, 50/60 Hz
Battery backup	8 AA alkaline batteries (not included)
Battery Life	48 hrs. continuous
Dimensions	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs. 15 oz.

**Recorder Charts**

Temperature Range 1	Humidity Range 2	12 Hr	24 Hr	7 Day	31 Day
-20°F to 120°F	0-100% Humidity	E20120F12	E20120F24	E20120F7	E20120F31
-20°F to 50°F	0-100% Humidity	E2050F12	E2050F24	E2050F7	E2050F31
40°F to 110°F	0-100% Humidity	E40110F12	E40110F24	E40110F7	E40110F31
-30°C to 50°C	0-100% Humidity	E3050C12	E3050C24	E3050C7	E3050C31
-30°C to 10°C	0-100% Humidity	E3010C12	E3010C24	E3010C7	E3010C31
5°C to 45°C	0-100% Humidity	E545C12	E545C24	E545C7	E545C31

**Accessories**

Part No.	Description
KTH	Temperature/ Humidity Probe
CABLE10H	Extension Cable for KTH ( 2 max)
CRPENR	Red Recorder Pen
CRPENB	Blue Recorder Pen
ADTA	Auto-Phone Dialer





**CIRCULAR CHART RECORDERS**



The CR87 Six Inch Chart Recorder Series sets the Standard for Reliable and Rugged Reporting.

- Micro-controller Design
- Large LED Display
- Front Panel Controls
- Single or Continuous Chart Rotation
- Battery Backup
- Comes with 2 Cartridge Pens & 60 6" dia. assorted charts
- Convenient Folding Handle
- Fold-out Support Stand
- Free Standing or Wall Mount

**CR87B TEMPERATURE RECORDER**



- Temperature Range: -40°F to 120°F (-40°C to 50°C)
- Remote Readings from Up to 100 ft. (optional sensor wire p/n CABLE10T)
- Programmable Speed and Temperature Ranges

Part No.	Scale	Operating Reading In
CR87B	Fahrenheit	120/240VAC 50/60 Hz
CR87BC	Celsius	120/240VAC 50/60 Hz

**CR87B Series Recording Charts**

Range	6 Hrs.	24 Hrs.	7 Days	31 Days
-40°F to 30°F	CR87-4	CR87-1	CR87-7	CR87-19
-20°F to 50°F	CR87-5	CR87-2	CR87-8	CR87-20
50°F to 120°F	CR87-6	CR87-3	CR87-9	CR87-21
-40°C to 0°C	CR87-13	CR87-10	CR87-16	CR87-22
-30°C to 10°C	CR87-14	CR87-11	CR87-17	CR87-23
10°C to 50°C	CR87-15	CR87-12	CR87-18	CR87-24

**Accessories**

Part No.	Description
TP15	15' wire with 4" stainless steel sensor
CABLE10T	10' Cable 100 ft. Max
PENARM	Pen Arm
CRPEN	Replacement Pen Black

**Specifications**

Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
CR87B Chart	6 Hours, 24 Hours,
Speed Selectable	7 Days, 31 Days
Chart Rotation Mode	Single Turn or Continuous
Chart Speed Accuracy	+/-1%
Chart Diameter	6 inches
Display	3 Digit LED 0.5"
Primary Power	120/240 VAC, 50/60 Hz.
Battery Backup	(8) AA Alkaline Batteries

Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Temperature Scale	-40°F to 30°F,
Selectable (°F)	-20°F to 50°F, 50°F to 120°F
Temperature Scale	-40°C to 0°C,
Selectable (°C)	-30°C to 10°C, 10°C to 50°C
Temperature Accuracy	+/-1°C or +/-2°F
Temperature Sensor	15' Long Sensor Wire with 4" Stainless Steel Submersible Probe

**CR87J TEMPERATURE RECORDER**



- Type J Thermocouple
- Temperature Range: -40°F to 120°F (-40°C to 50°C)
- Remote Readings
- Programmable Speed and Temperature Ranges
- Snap-on Support Legs
- Remote Readings from Up to 200 ft. (see accessory table)

Part No.	Scale	Operating Reading In
CR87J	Fahrenheit	120/240 VAC, 50/60 Hz
CR87JC	Celsius	120/240 VAC, 50/60 Hz

**CR87J Series Recording Charts**

Range	6 Hrs.	24 Hrs.	7 Days
-40°F to 30°F	CR87-4	CR87-1	CR87-7
-20°F to 50°F	CR87-5	CR87-2	CR87-8
50°F to 120°F	CR87-6	CR87-3	CR87-9
-40°C to 0°C	CR87-13	CR87-10	CR87-16
-30°C to 10°C	CR87-14	CR87-11	CR87-17
10°C to 50°C	CR87-15	CR87-12	CR87-18

**Accessories**

Part No.	Description
CR15B	15' wire with 4" stainless steel temperature sensor
PENARM	Pen Arm
CRPEN	Replacement Pen Black

**Type J Thermocouple Wires**

Part No.	Description
TCW25	25' Wire Only
TCW100	100' Wire Only

**Specifications**

Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
Chart	6 Hours, 24 Hours,
Speed Selectable	7 Days, 31 Days
Chart Rotation Mode	Single Turn or Continuous
Chart Speed Accuracy	+/-1%
Chart Diameter	6 inches
Display	3 Digit LED 0.5"
Primary Power	120/240 VAC, 50/60 Hz.
Battery Backup	(8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Temperature Scale	-40°F to 30°F,
Selectable (°F)	-20°F to 50°F, 50°F to 120°F
Temperature Scale	-40°C to 0°C,
Selectable (°C)	-30°C to 10°C, 10°C to 50°C
Temperature Accuracy	+/-1°C or +/-2°F
Temperature Sensor	15' Long Sensor Wire with 4" Stainless Steel Submersible Probe

**TYPE J THERMOCOUPLE WIRE WITH SENSOR FOR CR87J**



Part No.	Description
CR15B	15' wire with 4" stainless steel sensor (included)
CR25B	25' wire with 4" stainless steel sensor



**CR87HT HIGH TEMPERATURE RECORDER**



- Temperature Range: 0°F to 1000°F (0°C to 500°C)
- Remote Readings from Up to 2000 ft.
- Programmable Speed and Temperature Ranges
- Snap-on Support Legs

Part No.	Scale	Operating Reading
CR87HT	Fahrenheit	120/240 VAC, 50/60 Hz.
CR87HTC	Celsius	120/240 VAC, 50/60 Hz.

**CR87HT Series Recording Charts**

Range	6 Hrs.	24 Hrs.	7 Days	31 Days
0°F to 250°F	CR1000-4	CR1000-1	CR1000-7	CR1000-19
0°F to 500°F	CR1000-5	CR1000-2	CR1000-8	CR1000-20
500° to 1000°F	CR1000-6	CR1000-3		
0°C to 120°C	CR1000-13	CR1000-10	CR1000-16	CR1000-22
0°C to 250°C	CR1000-14	CR1000-11	CR1000-17	CR1000-23
250° to 500°C	CR1000-15	CR1000-12	CR1000-18	CR1000-24

**Accessories**

Part No.	Description
HTP5	6' high temperature thermocouple wire
HTP525	25' high temperature thermocouple wire
PENARM	Pen Arm
CRPEN	Replacement Pen Black

Specifications	
Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
Chart	6 Hours, 24 Hours,
Speed Selectable	7 Days, 31 Days
Chart Rotation Mode	Single Turn or Continuous
Chart Speed Accuracy	+/-1%
Chart Diameter	6 inches
Display	3 Digit LED 0.5"
Primary Power	120/240 VAC, 50/60 Hz.
Battery Backup	(8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Temperature Scale	0°F to 250°F,
Selectable (°F)	0°F to 500°F, 500°F to 1000°F
Temperature Scale	0°C to 120°C,
Selectable (°C)	0°C to 250°C 250°C to 500°C
Temperature Accuracy	+/-1°C or +/-2°F
Temperature Sensor	6' Long High Temperature Type "J" Thermocouple Wire Probe. Can Not Be Used in Liquid or Semi-Solid.

**COMMON RECORDER ACCESSORIES**



**Power Adapter**  
(For CR87B, CR87E, CR87P, CR87HT, CR86, CRTH2, & CRTT2)

Part No.	Input	Output
CRT (USA)	120/240 VAC	12 VDC

For Custom Series

Part No.	Input	Output
DPGT (USA)	120 VAC	9 VDC



**Extension Cable for Event Sensors (KEV,KEL,KES) & CR87PA Pressure Sensor**

Part No.	Description
CABLE15	15' cable



**Replacement Pens**

Part No.	Description
CRPEN	Black pen
CRPENR	Red pen
CRPENB	Blue pen

**CR87P / CR87PB PRESSURE RECORDER**



- Pressure Range 0 to 500 psi (0 to 35 BAR)
- Stainless Steel 17-4 Pressure Sensor with Port 1/4" NPT
- 2500 PSI Burst Pressure
- Rated for Any Gas or Fluid Compatible with 17-4 Stainless Steel
- Programmable Speed and Pressure Ranges
- Snap-on Support Legs

Part No.	Scale	Operating Reading In
CR87P	PSI	120/240 VAC, 50/60Hz.
CR87PB	BAR	120/240 VAC, 50/60Hz.

**Accessories**

Part No.	Description
CR87PA	Replacement pressure sensor and adapter
PENARM	Pen Arm
CRPEN	Replacement Pen Black

**CR87PB Series Recording Charts**

Range	24 Hrs.	7 Days
0 - 35 BAR	24H35BAR	7D35BAR
0 - 10 BAR	24H10BAR	7D10BAR
0 - 3.5 BAR		7D3.5BAR

**CR87P Series Recording Charts**

Range	6 Hrs.	24 Hrs.	7 Days	31 Days
0 - 500 PSI	6H500PSI	24H500PSI	7D500PSI	31D500PSI
0 - 150 PSI	6H150PSI	24H150PSI	7D150PSI	31D150PSI
0 - 50 PSI	6H50PSI	24H50PSI	7D50PSI	31D50PSI

Specifications	
Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
Chart	6 Hours, 24 Hours,
Speed Selectable	7 Days, 31 Days
Chart Rotation Mode	Single Turn or Continuous
Chart Speed Accuracy	+/-1%
Chart Diameter	6 inches
Display	3 Digit LED 0.5"
Primary Power	120/240 VAC, 50/60 Hz.
Battery Backup	(8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Pressure Range	0 to 500 psi, 0 to 150 psi
PSI Model	0 to 50 psi
Pressure Range	0 to 35 BAR, 0 to 10 BAR
BAR Model	0 to 3.5 BAR
Pressure Accuracy	+/- 1% F.S.
Temperature Sensor	+/- 1% F.S.

**CR4 UNIVERSAL RECORDER**



The CR4 six (6) inch Universal Chart Recorder Offers the Ultimate in Flexibility. Choose One of 5 Sensors for Your Application, Connect it to the CR4 Universal Recorder, Make Desired Speed Selection and Start Recording. When Your Application Calls for a Different Sensor, just Change Probes for the Same Recorder.

- Automatic Probe Recognition
- Front Panel Touch Pad
- Real Time Data View
- Battery Backup
- Field Replaceable Probes

**5 Interchangeable Probes**

- KTH Temperature and Humidity Probe
- KTT Dual Temperature Probes
- KTP Temperature and Pressure Probes
- KPP Dual Pressure Probes
- KTE Temperature/Event Probes

**Accessories**

Part No.	Description
CRPENR	Red Recorder Pen
CRPENB	Blue Recorder Pen
CRT	120/240 VAC Power Adapter

**Probe Accessories**

Part No.	Description	KTH	KTT	KTP	KPP	KTE
CABLE10H	Extension cable for KTH (2 max)	*				
CABLE15	15 ft. cable for sensor probes	*	*	*	*	
TP15	Temperature sensor with 15 ft. wire	*	*			

Specifications	
Chart Diameter	6 inches
Chart Rotation Mode	Continuous or Single turn
Memory	
Chart Rotation Speed	1.5, 3, 6, 12 & 24 hrs, 7 & 31 days
Chart Speed Accuracy	±1%
Charts	60 assorted included
Display	LCD (2 line)
Temperature Alarm Range	-20°F to 120°F (-30°C to 50°C)
Relative Humidity Alarm Range	5 to 90% RH (Non-Condensing)
Pressure Alarm Range	0 to 500 PSI ( 0 to 35 Bar)
Alarm Delay	NO DELAY, 10 mins., 30 mins., 1 hr. or 2 hrs.
Remote Alarm Connection	NO, 48 VAC/DC, 0.1 A resistive load
Operating Temperature	32°F to 120°F (0°C to 49°C)
Primary Power	120/240 VAC, 50/60 Hz
Battery backup	8 AA alkaline batteries
Battery Life	48 hrs. continuous

**KTH TEMPERATURE/ HUMIDITY PROBE**



Allows for Precision Measurement of Temperature, Humidity and Dew Point, (Non-Condensing). Probe Can Be Extended up to 25 Feet, Use p/n CABLE10H (2 max).

Probe Type	Part No.	Temperature Range/ Accuracy	RH Range/ Accuracy	Dew Point Range
Temp/RH	KTH	-40°F to 130°F +/- 2°F (-40° to 55°C +/- 1°C)	10 to 90% RH 32° to 130°F +/- 5% (0° to 55°C) ambient	32° to 130°F (0° to 55°C)

KTH Range 1	KTH Range 2	12 Hrs.	24 Hrs.	7 Days	31 Days
-20°F to 120°F	0-100% HUMIDITY	E20120F12	E20120F24	E20120F7	E20120F31
-20°F to 50°F	0-100% HUMIDITY			E2050F7	E2050F31
40°F to 110°F	0-100% HUMIDITY	E40110F12	E40110F24	E40110F7	E40110F31
-30°C to 50°C	0-100% HUMIDITY	E3050C12	E3050C24	E3050C7	E3050C31
-30°C to 10°C	0-100% HUMIDITY	E3010C12	E3010C24	E3010C7	E3010C31
5°C to 45°C	0-100% HUMIDITY	E545C12	E545C24	E545C7	E545C31

**KTT DUAL TEMPERATURE PROBES**



Complete with Two Precision Temperature Probes. Allows for Two Independent Temperature Measurements. Includes Adapter and Connecting Cable. Perfect for Refrigerators, Freezers, Indoor/Outdoor Recording, etc. Temperature Probe Can be Extended 20 Feet, Use p/n CABLE10T (2 max/probe).

Probe Type	Part No.	Temperature Range/Accuracy
Temp/RH	KTT	-40°F to 130°F +/- 2°F (-40° to 55°C +/- 1°C)

KTT Range 1	KTT Range 2	12 Hrs.	24 Hrs.	7 Days	31 Days
-20°F to 120°F	-20°F to 50°F	CRTT2-2	CRTT2-1	CRTT2-3	CRTT2-21
-20°F to 50°F	40°F to 110°F	CRTT2-5	CRTT2-4	CRTT2-6	CRTT2-19
40°F to 110°F	-20°F to 120°F	CRTT2-8	CRTT2-7	CRTT2-9	
-30°C to 50°C	5°C to 45°C	CRTT2-11	CRTT2-10	CRTT2-12	
5°C to 45°C	-30°C to 10°C			CRTT2-15	CRTT2-24
-30°C to 10°C	-30°C to 50°C		CRTT2-16	CRTT2-18	CRTT2-23

**KPP DUAL PRESSURE PROBES**



Complete with Two Pressure Probes. Measures and Records Two Pressures Simultaneously. Includes Connecting Cable and Adapter.

Probe Type	Part No.	Press. Range / Accuracy
Temp/RH	KPP	0-500 psi (0-35 BAR) +/- 1% FS

KPP Range 1	KPP Range 2	12 Hrs.	21 Hrs.	7 Days
0-50 PSI	0-150 PSI		CRPP2-7	
0-150 PSI	0-500 PSI	CRPP2-3	CRPP2-9	
0-10 BAR	0-35 BAR			CRPP2-18

**KTP TEMPERATURE / PRESSURE PROBES**



Complete with Independent Precision Pressure and Temperature Probes. Measures and Records Temperature and Pressure Simultaneously. Ideal for Solving Intermittent Problems. Includes a Connecting Cable and Adapter. Perfect for Refrigerators, Freezers, Indoor/Outdoor Recording, etc. Temperature Probe Can Be Extended 20 Feet, Use p/n CABLE10T (2 max/probe).

Probe Type	Part No.	Temp. Range/ Accuracy	Press. Range/Accuracy
Temp/RH	KTP	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	0-500 psi (0-35 BAR) +/-1%FS

KTP Range 1	KTP Range 2	12 Hrs.	24 Hrs.	7 Days
-20°F to 120°F	0-150 PSI		CRTP2-11	CRTP2-38
-20°F to 120°F	0-500 PSI	CRTP2-3	CRTP2-12	CRTP2-39
-20°F to 50°F	0-50 PSI		CRTP2-13	
-20°F to 50°F	0-500 PSI		CRTP2-15	
-30°C to 50°C	0-3.5 BAR	CRTP2-19		
-30°C to 50°C	0-10 BAR			CRTP2-47
-30°C to 50°C	0-35 BAR		CRTP2-30	
5°C to 45°C	0-3.5 BAR	CRTP2-25		
5°C to 45°C	0-10 BAR	CRTP2-26		CRTP2-53

**KTE TEMPERATURE / EVENT PROBES**



Complete with Precision Temperature Probe, Event Probe, a Connecting Cable and Adapter. Allows the Service Engineer to Analyze Various Equipment Running Cycles.

Probe Type	Part No.	Temp Range/Accuracy	Voltage Range
Temp/RH	KTE	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	24 VAC-270VAC (24VDC-180VDC)

KTE Range 1	KTE Range 2	24 hrs.	7 Days
-20°F to 120°F	ON/OFF		V20120F7D
-30°C to 50°C	ON/OFF	V3050C24	V3050C7

**DR SERIES**



The DR Disposable Temperature Recorder is an Inexpensive, One Time Use Temperature Recorder - Indispensable for HVAC/R Uses.

It Gives an Accurate Strip Chart Recording of a Wide Ambient Temperature Range. It can be Easily Changed on the Job!

- Pull TAB to Start
- Detachable Three Part Water Resistant Job Information Form
- Unique Serial Number on Chart and Recorder for Positive Identification
- HACCP Documentation
- NIS Traceable Calibration
- ABS Plastic Enclosure

Part No.	
DR10	10 Days
DR20	20 Days
DR40	40 Days
DR75	75 Days

Specifications	
Temperature Range	-20°F to 100°F (-28°C to 38°C)
Temperature Accuracy	+/-2°F (+/-1°C) or Better
Day Spans	DR10 10 Day (°F & °C) DR20 20 Day (°F & °C) DR40 40 Day (°F & °C) DR75 75 Day (°F & °C)
Chart Resolution	10 Day 2.50" Per Day 1.5 volt AA Battery 1 Year from date of Purchase
Calibration	NIST Traceable
Tamper-Proof Security Seal	Pre-sealed at the Factory
Case Quantity	40 Instruments
Enclosure	ABS Plastic
Weight/Dimensions	10.5 oz (297.7 gm) 6.50" L x 3.50" W x 2.56"H 16.51 cm x 6.50 cm x 8.89 cm

DATA VIEW DATA LOGGERS



- Text Display: Logging Summary, Sample Rate, Memory Used and Memory Left
- Graph Display: Shows Memory Trends Graphically, with Scrolling Feature
- Visual Over and Under Alarm Indicators for Temperature and Humidity
- USB Connection (Cable Included)

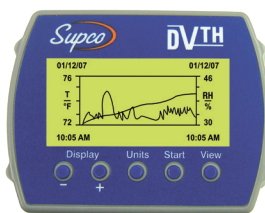
Common Logger Specifications

Calibration	User Single Point Offset Calibration is Available Through Software. Calibration can be Password Protected
Operating Temperature	15°F to 150°F (-10°C to 65°C)
Storage Temperature	-5°F to 160°F (-20°C to 70°C)
Time Accuracy	+/- 100ppm @ 75°F
Temperature Accuracy	+/-1°F (0.5°C)
Temperature Resolution	0.01°F or 0.01°C
Dimensions	4" x 3.05" x 1.5" (10.2cm x 7.7cm x 3.8cm)
Weight	7 oz. (200 g)
Power Source	Three AA Batteries
Battery Life	2 Years Average Use

Common Software Specifications

PC Interface	USB port. USB Cable is Included
Sampling Interval	User Selectable from 1 Second to 9 Hours, in 1 Second Increments
Data Security	Unique Factory Set Logger ID. Recording Session Counter. Password Protected Calibration
Operating System Compatibility	Windows® XP, Vista and Above Compatible with 32 and 64 bit systems. Not Compatible with Windows® NT or 95
Minimum System Requirements	5MB of Free Disk Space, 800 x 600 Screen Resolution, 1 Free USB Port
Recording Start	On Button Press, Immediate After Setup, or at a User Specified Date and Time
Recording Mode	Stop on Memory Full, or Continuous Recording with Memory Rollover
Real Time Status	Visual Indication Through the LED. Software Real Time Status
User Calibration	Password Protected Calibration for Each Channel
User Information	Up to 30 Characters
Logger Channels	User Selectable. Disabling Channels Increases the Storage Capacity
Units	US and Metric
Data Format	Exportable to Text or Excel Files

DVTH TEMPERATURE HUMIDITY LOGGER WITH DISPLAY

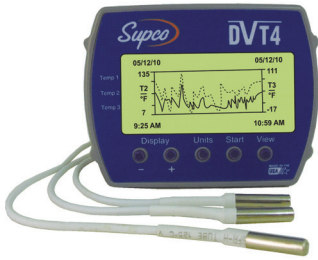


Record and INSTANTLY Display Trends for Temperature, Humidity and Dew Point with the DVTH. Monitor Real Time Measurements for Instant Environmental Conditions. When You're Ready, Download Over 40,000 Data Points to Your PC for Further Analysis. Data Logging has Never Been this Visual!

Specifications

Sample Point Capacity	43,344 Points for Temperature Only. 21,672 Points for Temperature, Humidity and Dew Point
Relative Humidity Range	0% to 90% RH, Non-condensing
Relative Humidity Accuracy	+/-2% RH, from 10% to 90% RH
Relative Humidity Resolution	0.01%RH

**DVT4 FOUR CHANNEL TEMPERATURE DATA LOGGER WITH DISPLAY**



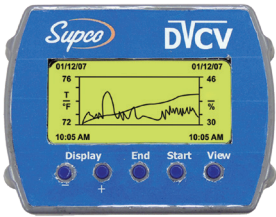
INSTANTLY Record and View Up To 4 Temperatures Using 1 Internal and 3 15' External Sensors. The Large, Clear Display Shows All Channels Simultaneously, as well as the Temperature Difference Between Channels. Up to 87,000 Data Points are Available for Download to Your PC for Further Analysis.

Specifications	
Sample Storage	21,760 Points for 4 Temperatures. 29,013 Points for
Capacity	3 Temperatures. 43,520 Points for 2 Temperatures. 87,040 Points for Single Temperature
Internal Probe	15°F to 150°F
Temperature Range	(-10°C to 65°C)
External Probe	-40°F to 160°F
Temperature Range	(-40°C to 70°C)

Accessories

Part No.	Description
TMPROBE15	Replacement Sensor
DVT4PA	15 ft. Probe Assembly

**DVCV DATA VIEW DATA LOGGER CURRENT & VOLTAGE**



- Displays Real Time Current, Voltage and Watts
- Displays Logging Summary, Sample Rate, Memory Used and Memory Left
- Sample Point Capacity: 43,344 Points for Voltage or Current Only.  
21,672 Points When Both Current and Voltage are Logged
- Three AA Batteries Included



Specifications	
Operating Temperature Range	15°F to 150°F (-10°C to 65°C)
Current Range	1A to 300A AC
Current Accuracy	+/- 1A
Current Resolution	0.2A
Voltage Range	1V to 600V AC
Voltage Accuracy	+/- 0.4V
Voltage Resolution	0.2V



**SL500 SERIES DATA LOGGERS WITH LCD REAL TIME DISPLAY**



SL500T



SL500TH



SL500XT



SL500TC

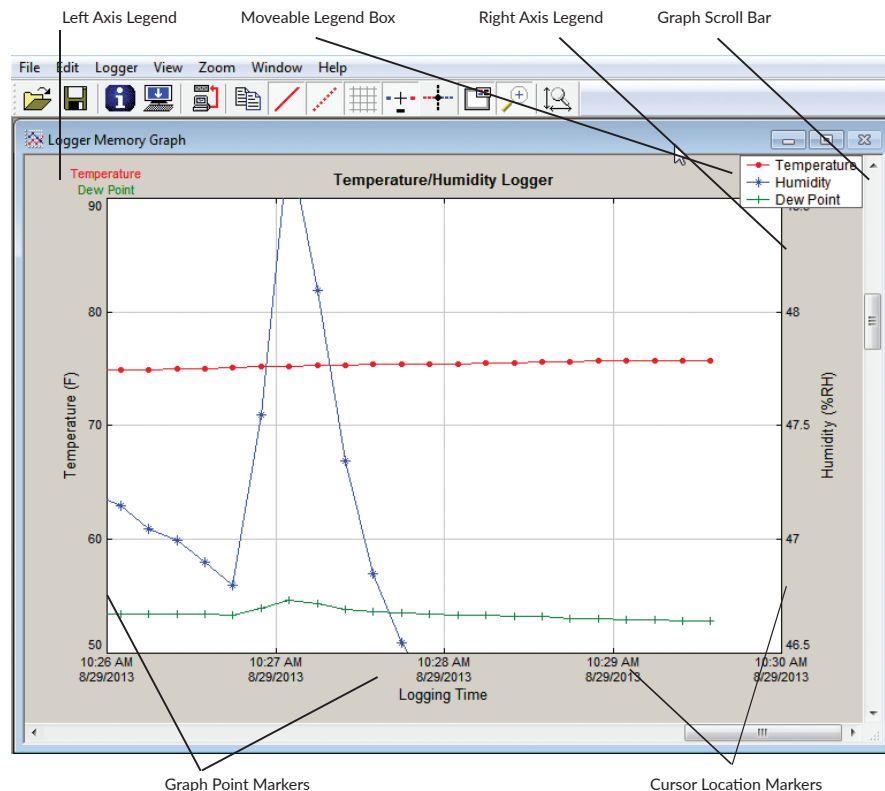
The SL500 Series of Temperature and Temperature/Humidity Data Loggers are Simple to Use, Versatile Test Instruments Which Can Be Used in a Multitude of Applications.

- LCD Real Time Display of Temperature (°F or °C), Relative Humidity (SL500TH Only), Time, Date, Alarm Status, Logging Status and Battery Life
- Windows® Software Included
- Sample Rate from 1 Second to 9 Hours
- User Selectable Stop on Memory Full or Memory Rollover for Continuous Logging
- Delayed Start or Push Button Logging Control
- Read Data on Logger Display
- Displays Alarm Icon for High/Low Alarm Status
- Non-volatile EEPROM Memory Retains Data Even if Battery Fails
- USB Interface for Fast Data Transfer (3' Cable Included)
- Compact, Light-weight, Simple to Use
- 1 Year Warranty
- Optional NIST (National Institute of Standards & Technology) Calibration Available

Part No.	Description
SL500T	Temperature Data Logger
SL500TH	Temperature & Humidity Data Logger
SL500XT	External Probe Temperature Data Logger
SL500TC	Thermocouple Temperature Data Logger

**Working the Data Graph**

Clicking Anywhere Within the Graph Window Activates the Graph Toolbar Buttons and the Graph Window Features



## SL500 SERIES SOFTWARE FEATURES

- Selectable Language (English/French/Spanish)
- Software Compatibility: Windows® XP/Vista/7/8/10
- Minimum System Requirements: 800 x 600 Resolution, 1 Free USB Port
- Complete Data Summary to Read Statistics and Alarm Information in a Simplified Format
- Tabular view of Data including Detailed Dates, Times and Values of Recorded Data
- Graph Function Displays Data in Graphical Format
- Cursor Displays Exact Data of Any Point in the Graphical Display
- Magnify Data with Powerful Zoom and Auto Scale Functions
- Auto Scale Function Fits Data to Screen or Allows User to Manually Enter their Own Values
- Export Data in Excel or Text Format
- Print Graph or Text Data with Print Preview and Set Up Options
- Set Up and Launch Data Loggers with Immediate or Delayed Start, Preferred Sample Rate, Alarm Set Up and Custom ID up to 30 Characters
- Password Protected Calibration Function. A Calibration Window is Included in the Software to Simplify the Calibration Procedure
- Convenient Status Displays ID of Logger, Battery Life, Memory Used, Sample Rate, Duration, Alarm Condition and Logging Status
- Menu Bar Provides One Click Access to Most Software Functions

## Data Listing Window

Logger Memory Information

Logger Information

Logger Type: SL500TH  
Unit Description: Temperature/Humidity Logger  
Logging Rate: 10 Secs

Data Listing | Data Summary | Alarm Thresholds

Samp	Temp (F)	Hum (%RH)	Dew Point (F)	Date
40	75.90	44.45	52.71	8/29/2013
41	75.90	44.45	52.71	8/29/2013
42	75.90	44.35	52.65	8/29/2013
43	75.90	44.15	52.53	8/29/2013
44	75.90	44.15	52.53	8/29/2013
45	75.95	44.25	52.63	8/29/2013
46	75.95	44.10	52.54	8/29/2013
47	75.95	44.05	52.51	8/29/2013
48	76.00	44.20	52.65	8/29/2013
49	76.00	44.10	52.59	8/29/2013
50	76.00	43.90	52.46	8/29/2013
51	76.00	43.80	52.40	8/29/2013
52	76.00	43.65	52.31	8/29/2013
53	76.00	43.55	52.25	8/29/2013
54	76.10	43.50	52.31	8/29/2013
55	76.10	43.40	52.24	8/29/2013
56	76.10	43.30	52.18	8/29/2013
57	76.10	43.15	52.09	8/29/2013
58	76.15	44.90	53.21	8/29/2013
59	76.15	44.65	53.06	8/29/2013
60	76.15	44.00	52.66	8/29/2013
61	76.25	43.50	52.44	8/29/2013
62	76.30	43.15	52.27	8/29/2013
63	76.30	42.95	52.14	8/29/2013

Adjustable Column Width



SL500T/SL500XT/SL500TH SPECIFICATIONS



Specifications	
Sample Point Capacity	43,344 Temperature Points for the SL500T and SL500XT. 21,672 each Temperature and Humidity Points for the SL500TH
Display	Current Reading Time, Logging Status, Alarm Status, Recorded Sample History, Battery Level. SL500TH Alternates the Display Between Temperature and Humidity Every Two Seconds
Alarms	Visual Over and Under Alarm Indicator for Temperature and/or Humidity
Calibration	User Single Point Offset Calibration is Available Through Software. Calibration can be Password Protected
Operating Temperature	-5°F to 160°F (-20°C to 70°C)
External Probe Temperature	-40°F to 176°F (-40°C to 80°C)
Measurement Range External Probe Length (SL500XT)	6' (1.8m)
Storage Temperature Range	-20°F to 175°F (-30°C to 80°C)
Time Accuracy	+/- 100ppm @ 75°F (24°C)
Temperature Accuracy	+/-0.9°F (0.5°C) for the Range 0°F to 120°F (-17°C to 50°C)
Temperature Resolution (PC Software)	0.05°F (0.03°C)
Relative Humidity Accuracy (SL500TH)	+/-2% RH for the Range of 10% RH to 90% RH
Relative Humidity Resolution (SL500TH)	0.05% RH
Dimensions	2.15" x 2.25" x 0.55" (5.5cm x 5.57cm x 1.4cm)
Power Source	3V CR2032 Lithium (Included)
Battery Life	3 Years Average Use

SL500TC SPECIFICATIONS



Specifications	
Sample Point Capacity	32,638 Temperature Points
Includes:	Type K Insulated Beaded Wire Thermocouple 40" (1m)
Other Supported Thermocouples	J, E, B, T, S, R, B, C
Display	Current Reading and Time, Logging Status, Alarm Status, Recorded Sample History, Battery Level, Thermocouple Type. Displays Temperature up to 1999°F or 1999°C
Alarms	Visual Over and Under Temperature Alarms
Display Temperature Resolution	0.2°F (0.1°C) up to 199.9°F or °C. 1°F or 1°C Above 200°F or 200°C
Logged Temperature Resolution	0.2°F (0.1°C)
Thermocouple Impedance	50 Ohms Maximum for Specified Accuracy
Cold Junction Temperature	+/-0.5°F (0.3°C)
Accuracy Calibration	User Single Point Offset Calibration is Available Through Software. Calibration can be Password Protected
Operating Temperature	0°F to 131°F (-18°C to 55°C)
Storage Temperature	-20°F to 175°F (-30°C to 80°C)
Time Accuracy	+/-100ppm @ 75°F (24°C)
Dimensions	2.15" x 2.25" x 1.2" (5.5cm x 5.7cm x 3.0cm)
Power Source	3 AAA Batteries (Alkaline or Lithium Recommended), Included
Battery Life	2 Years Average Use

Thermocouple	Accuracy	SL500TC Temperature Range
K	+/- 1.3°F (0.7°C)	-418 to 2372°F (-250 to 1300°C)
J	+/- 1.0°F (0.6°C)	-274 to 1832°F (-170 to 1000°C)
E	+/- 0.8°F (0.4°C)	-328 to 1508°F (-200 to 820°C)
N	+/- 1.5°F (0.8°C)	-328 to 2372°F (-200 to 1300°C)
T	+/- 1.3°F (0.7°C)	-328 to 752°F (-200 to 400°C)

Thermocouple	Accuracy	SL500TC Temperature Range
S	+/- 5.0°F (2.8°C)	-58 to 3200°F (-50 to 1760°C)
R	+/- 5.0°F (2.8°C)	-58 to 3200°F (-50 to 1760°C)
B	+/- 6.0°F (3.3°C)	68 to 3308°F (20 to 1820°C)
C	+/- 3.0°F (1.7°C)	32 to 4208°F (0 to 2320°C)

The accuracy stated is for the SL500TC only. Inaccurate readings increase based on the thermocouple wire grade being used. The logger supported range is for stored temperature.



SL SERIES MINIATURE DATA LOGGERS

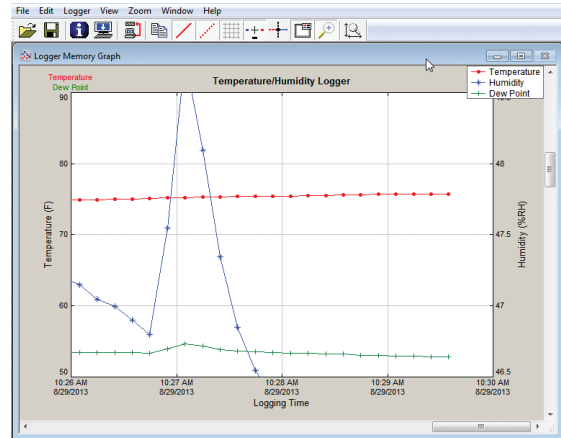


Choose from Temperature, Humidity and Dew Point, or Temperature only Data Logging in a Miniature, Self-contained Device. The SL Series Data Loggers Provide Concise Measurements for Critical Environmental Conditions.

- Windows® XP, Vista and above Compatible Software (included). Not Compatible with Windows® 95/98 or NT
- PC, Delayed Start or Push Button Recording Control
- Temperature and Humidity Alarm with Visual Indication on Demand
- User Selectable Stop on Memory Full or Memory Rollover for Continuous Recording
- Real Time Monitoring
- View Graph and Text Simultaneously
- Can Calibrate Through Software
- Displays Temperature in °F or °C
- USB Interface Standard (Cable Included)

SL Series Common Specifications

Sample Rate	1 Second to 9 Hours
Alarms	High and Low Temperature and Humidity Alarms with Visual Indication on Demand
Temperature	+/-1°F
Accuracy	(+/-0.5°C)
Time	+/-100ppm @ 75°F
Dimensions	3" x 1.6" x 0.6" (7.6cm x 4.0cm x 1.5cm)
Weight	1.0 oz. (28g)
Power Source	3 V (CR2032) Lithium Battery (Included)
Battery Life	6 Years Average Use



SL300TH



Measures Temperature, Humidity and Dew Point Simultaneously.

- Temperature and Humidity Alarm with Visual Indication on Demand

Specifications

Sample Point Capacity	43,344 for Temperature only. 21,672 for Temperature, Humidity and Dew Point
Temperature	-40°F to 160°F
Range	(-40°C to 70°C)
Temperature Resolution	0.01°F or 0.01°C
Relative Humidity Range	10% to 90% RH, Non-condensing
Relative Humidity Accuracy	+/-2% RH from 10% to 90% RH
Relative Humidity Resolution	0.01% RH
Calibration	Single Point Offset Calibration Available Through Software for both Temperature and Humidity. Can be Password Protected

SL300T



Measures Temperature Only.

- Temperature Alarm with Visual Indication on Demand

Specifications

Sample Point Capacity	43,344 Temperature Samples for Temp. Only
Temperature Range	-40°F to 185°F (-40°C to 85°C)
Calibration	Single Point Offset Calibration Available Through Software for Temperature. Can be Password Protected

**LOGIT SERIES**

Select the Right Logger for your Application...

- Stores Over 10,000 Measurement Points
- 1 Second to 18 Hour Sample Rate; 1 Second Increments
- Custom User Identification (30 Characters)
- Real Time Data Monitoring
- Over/Under Alarm Threshold Settings
- Visual Alarm Indication
- User Selectable Recording Start
- Tamper Proof
- 20 Month Battery Life (at 1 Minute Sample Rate)
- Data Rollover Option
- Unique Logger ID
- One PC Software Operates withall Loggers (LLSU not included)
- Graphic or Text Data
- Zoom Capability
- 1 Year Warranty

**LT2 TEMPERATURE LOGGER (INTERNAL & EXTERNAL)**



- One Internal and One External Temperature Measurement, Simultaneously

Accessory

Part No.	Description
TMPROBE15	15' Remote Temperature Sensor

Specifications	
Sample Point Capacity	21,500 points (single channel), 10,750 points and differential (dual channel)
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Each Probe
Temperature Range (Internal Sensor)	32° to 140°F (0°C to 60°C) with Alkaline Battery -40°F to 150°F (-40°C to 65°C) with Lithium Battery
Temperature Range (External Sensor)	-40°F to 150°F (-40°C to 65°C)
Accuracy Resolution	+/-1.0°F (0.5°C), 0.1°F (0.05°C)
Time Accuracy	+/-100ppm @ 75°F
Operating Range	0% to 90% RH,
Humidity	Non-condensing
Storate Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)
Battery Life	18 Months using Alkaline, 36 Months using Lithium

**LTT DUAL TEMPERATURE LOGGER**



- 2 Independent External Temperature Measurements & Temperature Differential
- 2 DLTP6 Sensors (Included)

Accessory

Part No.	Description
DLTP6	4" Stainless Steel 6' Temperature Sensor

Specifications	
Sample Point Capacity	21,500 points (1 Probe), 10,750 points and differential (2 Probes)
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Each Probe
Temperature Range (External Sensor)	-50°F to 300°F (-46°C to 150°C)
Accuracy Resolution	+/-2°F (1°C) 0.1°F (0.05°C)
Time Accuracy	+/-100ppm @ 75°F
Operating Range Humidity	0% to 90% RH, Non-condensing
Temperature Using Alkaline	32°F to 140°F (0°C to 60°C)
Temperature Using Lithium	-40°F to 150°F (-40°C to 65°C)
Storate Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)
Battery Life	20 Months using Alkaline, 40 Months using Lithium



**LPT/LPT1000 PRESSURE & TEMPERATURE LOGGER**



- External Pressure and Temperature Measurements

Specifications	
Sample Point Capacity	10,750 Points for Pressure & Temperature. 21,500 Points for Pressure OR Temperature
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Pressure & Temperature
Temperature Range (External Sensor)	-40°F to 150°F (-40°C to 65°C)
Accuracy Resolution	+/-1°F (0.5°C) 0.1°F ( 0.05°C)
Time Accuracy	+/-100ppm @ 75°F
Pressure Range	0-500 psi (LPT), 0-1000 psi (LPT1000)
Pressure Sensor Temperature Range	-4°F to 185°F (-20°C to 85°C)
Compensated Temperature Range	32°F to 130°F (0°C to 55°C)
Pressure Accuracy	+/-3 psi
Pressure Resolution	0.15 psi
Pressure Connection	1/4" MPT Pressure Sensor Connection
Temperature Using Alkaline	32°F to 130°F (0°C to 54°C)
Temperature Using Lithium	-40°F to 170°F (-40°C to 77°C)
Operating Range Humidity	0 to 90% RH Non-condensing
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software. Pressure is Factory Calibrated
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz ( 71g)
Power Source	9V Alkaline or Lithium Battery (not included)

Accessory

Part No.	Description
TMPROBE15	15' Remote Temperature Sensor

**L420 4-20 MA LOGGER**



- Connection for 4-20 ma Loop Measurements

Specifications	
Sample Point Capacity	21,500 Points
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarm
Time Accuracy	+/-100ppm @ 75°F
Input Current Range	0-40 ma
Current Accuracy	+/-0.05 ma
Current Resolution	0.01 ma
Temperature Using Alkaline	32°F to 140°F (0°C to 60°C)
Temperature Using Lithium	-40°F to 150°F (-40°C to 65°C)
Operating Range Humidity	0 to 90% RH, Non-condensing
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software. Current and Voltage are Factory Calibrated
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz ( 71g)
Power Source	9V Alkaline or Lithium Battery (not included)



**LCV CURRENT & VOLTAGE LOGGER**



- External Current Probe and Voltage Measurements
- AC Only, Single Phase

Specifications	
Sample Point Capacity	10,750 Points for Current & Voltage. 21,500 Points for Current OR Voltage
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Pressure & Temperature
Time Accuracy	+/-100ppm @ 75°F
Input Current Range	0-300 Amps
Current Accuracy	+/-5%
Current Resolution	0.1 Amp AC
Voltage Range	0-500 Volts AC
Voltage Accuracy	+/- VAC
Voltage Resolution	0.1 VAC
Temperature Using Alkaline	32°F to 130°F (0°C to 54°C)
Temperature Using Lithium	-40°F to 150°F (-40°C to 65°C)
Operating Range Humidity	0 to 90% RH, Non-condensing
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software. Current and Voltage are Factory Calibrated
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz ( 71g)
Power Source	9V Alkaline or Lithium Battery (not included)

**LLSU LOGIT PC SOFTWARE & INTERFACE FOR USB CONNECTION**



- PC Software on CD ROM
- LINT Interface
- Cable From Logger to Interface (12283-001)
- Cable From Interface to USB (MINIUSB)

**Common Features**

- Compatible with Windows® 95 through Windows® 10
- Graphic and Text Data
- 3 Memory Modes: Stop on Full, Record Continuously, or Memory Rollover
- Real Time Monitoring
- Password Protected Calibration
- Data Exportable to Text or Excel
- Minimum System Requirements: 8MB RAM, 2MB Disc Space, 800 x 600 Resolution, COM Port or USB Port

**LOGIT OPTIONAL ACCESSORIES**

Part No.	Description	LT2	LTH	LTC	LTT	LPT	LCV	L420
USBS	USB to Serial Interface	*	*		*	*	*	*
LLS	LOGIT PC Software w/ Serial Interface	*	*	*	*	*	*	*
LLSU	LOGIT PC Software w/ USB Interface	*	*	*	*	*	*	*
SW25	25' Temperature Sensor Extension Wire	*				*		
SW50	50' Temperature Sensor Extension Wire	*				*		
SW75	75' Temperature Sensor Extension Wire	*				*		
SW100	100' Temperature Sensor Extension Wire	*				*		
CABLE10T	10' Sensor Extension Wire					*		
CABLE10H	10' Sensor Extension Wire (Max 3)					*		



**CO1000 CARBON MONOXIDE METER**



- Backlit LCD
- Automatic Calibration
- Above 200ppm, the Beeper Sounds Continuously
- Max Hold and Data Hold
- Auto Power Off
- Audible Alarm
- From 35ppm to 200ppm, the Beeper Sounds Periodically

Part No.	Description	Part No.	Description
Measurement Range	0 to 1000 PPM	Storage Temperature	-22°F to 140°F (-30°C to 60°C)
Measurement Resolution	1 PPM	Operating Humidity	0-99% Relative Humidity (non-condensing)
Accuracy	5% or ±10 PPM (0-100 PPM)	Battery	9V (included)
Warm Up Period	< 2 Seconds	Auto Power Off	After 15 minutes of inactivity
Operating Temperature	32°F to 122°F (0°C to 50°C)	Sensor Type	Stabilized electrochemical Gas-specific (CO)
		Typical Sensor Life	3 years

# O N E S O U R C E  
FOR TEST INSTRUMENTS

OUR M500 MEGOHMMETER IS A TOP RATED PRODUCT WITH CONTRACTORS. FIND IT ON PAGE 128.



“Accurate and saves time”



“Easy to use to explain the findings to a customer. Exactly what I needed.”



“This has paid for itself.”



**IAQ SERIES**

IAQ Series Measures Carbon Dioxide, Temperature and Humidity with Dew Point and Wet Bulb. Ideal for a Quality Diagnosis, they can be used in Identifying Sick Building Syndrome due to High Levels of CO2. Choose From a Hand Held Meter or Wall Mounted/Desktop Monitor. Both Come Equipped with a Triple LCD Display and Programmable Alarms.

- Non-Dispersive Infrared (NDIR) Sensor
- Visible/Audible (80db) CO2 Alarm
- Min./Max., Average Recall
- Alarm Output Relay
- Long Time Drift Compensation
- TWA (Time-Weighted Average) 8 Hours
- STEL (Short-Term-Exposure Limit) 15 Minutes

**IAQ50 WALL MOUNTED INDOOR AIR QUALITY MONITOR**



- Desktop or Wall Mounting
- Alarm Output Relay
- 12V Power Adapter (Included)

**IAQ55 HANDHELD INDOOR AIR QUALITY MONITOR**



- Portable
- Backlight LCD Display Function
- Auto Shut-Off

Specifications

CO2	IAQ55	IAQ50
Range	0-2000ppm 2001-9999 (out of scale)	
Resolution	1ppm	
Accuracy	+75ppm+5%rdg (0-2000 ppm) Not specified for out of scale	+50ppm+5%rdg (0-2000 ppm) Not specified for out of scale
Pressure Dependence	+1.6% reading per kPa deviation from normal pressure, 100kPa	
Temperature		
Range	14 to 140°F (-10.0 to 60.0°C)	
Resolution	0.1°F (0.1°C)	
Accuracy	+- 0.9°F (± 0.6°C)	
Humidity		
Range	0.0 to 99% Non-Condensing	
Resolution	0.1%	
Accuracy	+-3% (10 to 90%) +-5% (others)	
General		
Warm Up	30 seconds	
Operating	32°F to 122°F (0 to 50°C) 0-95% RH Non-Condensing	
Storage	4°F to 140°F (-20 to 60°C) 0-99% RH Non-Condensing	
Power	4 AA batteries (Included)	12V adapter (Included)
Battery Life	N/A	24 hours (Alkaline)

**MFD10 DIGITAL CAPACITOR TESTER**



- New, Rugged Case
- Rubber Grips for Easy Handling
- Range 0.01  $\mu$ F to 9999  $\mu$ F
- Accuracy +/- 5%
- Auto-Ranging
- One Button Operation
- Magnetic Leads
- Includes Alligator Clips
- 12" Test Leads
- Sliding Door to Easily Store Test Leads & Clips
- Includes Soft Carrying Case
- Dimensions: 2 5/8" x 1 3/8" x 4 1/4"
- Operates on 3 AAA Batteries (not included)

Accessories

Part No.	Description
MDFUSE	Replacement Fuse
MCASE	Soft Carrying Case



**M500 INSULATION TESTER/ELECTRONIC MEGOHMMETER**



- Measure Insulation Values up to 1000 Megohms @ 500VAC
- Range: 20 to 1000 Megohms
- Zone Scale to Indicate Insulation Condition
- Hand Held
- Test Leads Store in Case
- Operates on 2 C Batteries (Not Included)
- Impact Resistant
- Soft Carrying Case Included

Accessories

Part No.	Description
MCASE	Soft Carrying Case

**M501 INSULATION TESTER / ELECTRONIC MEGOHMMETER**



- Enjoy the Same Great Features of the M500 in a Sturdy Service Case

**M1000D DIGITAL MEGOHMMETER**



The Versatile M1000D Provides the User Selectable Test Voltage Ranges of 250V/500V/1000V to Test Insulation Resistance and Can Also be Used to Measure AC Voltage up to 750AC.

- User Selectable Resistance and Voltage Ranges
- Large Backlit LCD (3.25" x 2.00")
- Data Hold Button
- Auto Power Off After 15 Minutes
- Low Battery Indicator
- 1 Year Warranty



### DDM55 DUAL DIGITAL MONOMETER



- Dual Input
- Range: -55.0 to +55.0 Inches Water Column
- Resolution to 0.01"
- Provides Differential Measurements
- 11 Units of Measure
- Data Hold
- LCD Display w/ Backlight
- Auto Power Off
- 9V Battery Included
- Soft Carrying Case Included
- Left Port - Negative Pressure
- Right Port - Positive Pressure

General Specifications	
Display	Dual LCD
Accuracy	+/-0.3% FSO
Repeatability	+/-0.2% (Max. +/-0.5% FSO)
Linearity/Hysteresis	+/-0.29% FSO
Maximum Pressure	10 psi
Response Time	0.5 Seconds Typical
Low Battery Indicator	Yes
Over Range Indicator	Err. 1
Under Range Indicator	Err.2
Operating Conditions	32°F to 122°F (0 to 50°C)
Storage Conditions	14°F to 140°F (-1 to 60°C)
Power Supply	1 x 9V Battery (Included) or External 9V DC

Specifications

Function	Range	Resolution
InH2O	+/-55.40	0.01
psi	+/-2.000	0.001
Mbar	+/-137.8	
kPa	+/-137.9	
inHg	+/-0.407	0.001
mmHg	+/-103.4	

Specifications

Function	Range	Resolution
ozin2	32.00	0.01
FtH2O	4.612	0.001
cmH2O	140.6	0.1
Kgcm2	0.140	0.001
Bar	0.137	0.001

Accessories Included

- Soft Pouch
- Flexible Tubing
- 1/8" MPT x 1/8" Barb Access Fitting

### TPC8000 TEMPERATURE PRESSURE CLAMP



The Intelligent Pressure Clamp is 3 Tools in One! Great for SUPERHEAT or SUBCOOL Temperatures, it Quickly and Accurately Measures Temperature (pipe), Temperature and Relative Pressure and has a PT Chart.

- Set Up and Change Refrigerant in Seconds
- PT Chart has 64 Refrigerants
- Durable Moisture Resistant Keypad
- LED BackLight
- Automatic Shut Off
- Spring-Loaded Clamp Design. Easily Attaches to Tubing from 3/8" to 1 1/8"
- Battery Operated (200 hr. run time, batteries included)

Refrigerants

- R11, R12, R13, R14, R21, R22, R23, R32, R41, R113, R114, R115, R116, R123, R124, R125, R134, R134A, R141B, R142B, R143, R143A, R152A, R161, R176, R218, R290, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R408A, R409A, R409B, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R415A, R415B, R416A, R417A, R418A, R419A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R423A, R424A, R425A, R426A, R427A, R428A, R429A, R430A, R431A, R432A, R433A, R434A, R435A, R436A, R436B, R437A, R438A, R500, R501, R502, R503, R504, R507, R507A, R508A, R508B, R509A, R510A, R600, R600A, R601, R601A, R717, R744



Specifications

Temperature Range	23°F to 158°F (-5°C to 70°C)
Accuracy	+/- 2% (typ.)
Resolution	0.1°F/°C
Operating Temperature	50° F to 113° (10°C to 45°C)
Auto Shut Off	20 Seconds
Dimensions	4 1/2" x 2 3/8" x 1 1/2" (114.3 mm x 60.325 mm x 38.1 mm)
Weight	5 oz. (141.7 g.)

DAVM+ DIGITAL AIR FLOW / VOLUME METER



- Measures Feet Per Minute (FPM) and Cubic Feet Per Minute (CFM)
- Easy CFM Set-Up Flow Chart with Grill Free Area Chart (Included)
- Measures Temperature and Humidity
- °F/°C Selectable
- Standard K-Type Thermocouple Connector
- Measures Light Levels (LUX)
- Multi-Channel Display
- Data Hold
- One-Hand Operation
- Carrying Case Included

Specifications		Measurement	Area Set
Measurement	Anemometer, Humidity, Temperature, Light, Air flow (CFM/CMM).	CFM	0.01 to 322.92 Feet Square
Operating Humidity	80% RH Max	CMM	0.001 to 30.000 Meter Square
Operating Temperature	32°F to 122°F (0°C to 50°C)		
Over Input Display	Indication of " - - - "		
Power Supply	9V battery (not included)		
Power Consumption	Approx. 6.2 mA DC		
Weight	5.6 oz (160g)		
Dimension	6.14" x 2.36" x 1.29" 156 x 60 x 33 mm		

Measurement	Range	Resolution	Accuracy
Air Velocity	ft/min	80 to 5,910 ft/min	1 ft/min
	m/s	0.4 to 30.0 m/s	0.1 m/s
	km/h	1.4 to 108.0 km/h	0.1 km/h
	MPH	0.9 to 67.0 mile/h	0.1 MPH
	knots	0.8 to 58.3 knots	0.1 knots
Temperature (thermistor)	° F	32° to 122 °F	0.1 °F
	° C	0° to 50 °C	0.1 °C
Air Flow	CFM	0 to 1,908,400 CFM	0.001 to 100
	CMM	0 to 54,000 CMM	0.001 to 1 (cube meter/min)
Humidity	% RH	10 to 95 % RH	0.1 % RH
		< 70% RH : ± 4% RH ≥ 70% RH : ± (4%rdg+1.2%RH)	
Light	Lux	0 to 2,200 Lux	1 Lux
		1,800 to 20,000 Lux	10 Lux
		0 to 20,000 Lux 0 to 2,000 Fc	
Temperature (Type K)	-148 to 2,372 °F		± 5% rdg ± 8 dgt
			±(1% rdg + 2°F)
*auto range	Ft-cd	-100 to 1,300 °C	± (1% rdg + 1°C)
		0 to 240.0 Fc 170 to 2,000 Fc	1 Ft-cd 1 Ft-cd

### EM5 ENVIROMENTAL METER



Combining the Measurements of 5 Critical Environmental Parameters, the EM5 Provides the User with Complete Information for Real Time Environmental Conditions; SOUND, AIR VELOCITY (AND VOLUME), TEMPERATURE, HUMIDITY AND LIGHT.

- Measures Air Velocity (fpm) and Air Volume (cfm)
- Measures Sound in dB
- Measures Temperature and Humidity
- Measures Light (Lux)
- Standard and Metric Units
- Backlit LCD Display
- Min/Max/Avg/DIF Modes
- Auto-Ranging
- Auto Power Off
- Low Battery Indicator
- One-Hand Operation
- Air Measurement Set Up and Register CFM Pocket Chart Included
- Carrying Case Included
- Instrument Tripod Included
- One Year Warranty

Range	Resolution	Accuracy
Temperature 14°F to 140°F (-10°C to 60°C)	0.1°F (0.1°C)	+/- 2.7°F (+/- 1.5°C)
Relative Humidity 20% RH to 80% RH < 20% RH and > 80% RH	0.1% RH 0.1% RH	+/- 3% RH @ 75 °F +/- 5% RH @ 75 °F
Sound Level 30 dB to 130 dB	0.1 dB	+/- 1.5 dB
Light Level 0 to 2000 Lux 2001 LUX to 20,000 Lux 20,001 LUX to 50,000 Lux	1 Lux 10 Lux 100 Lux	+/- 5% of Rdg plus 10 +/- 5% of Rdg plus 10 +/- 5% of Rdg plus 10
Air Flow 1.6 ft/s to 65.7 ft/s 0.5 m/s to 20 m/s 0.9 knots to 38.9 knots 1.8 km/h to 72 km/h	0.1 ft/s 0.1 m/s 0.1 knots 0.1 km/h	+/- 3% of Rdg plus 10 +/- 3% of Rdg plus 10 +/- 3% of Rdg plus 10 +/- 3% of Rdg plus 10
Air Volume 0 to 999,900 CFM 0 to 999,900 CMM	0.1 to 100 CFM 0.1 to 1000 CMM	+/- 3% of Rdg plus 10 +/- 3% of Rdg plus 10

Specifications	
Display	4 1/2 Digit Backlit LCD
Response Time	2/Second (app.)
Operating Temperature	14°F to 140°F (-10°C to 60°C)
Storage Temperature	14°F to 122°F (-10°C to 50°C)
Power Requirements	9V Battery (Included)
Weight	15.5 oz. (430 g.)
Dimensions	11" x 3.5" x 2" (280 mm x 89 mm x 50mm)

### EM SERIES ENVIRONMETERS

Measure Critical HVAC/R Parameters to Maximize Productivity and Performance. Choose the Environmeter(s) for the Best Solution.

### EM20 THERMO-ANEMOMETER



Diagnose and Solve Air Flow Problems

- Measures fpm, m/s, mph, km/h, kts, Beaufort Scale
- Measures °F/°C
- Velocity Range: 80 fpm to 4000 fpm
- Temperature Range: 14°F to 122°F
- Min/Max
- Data Hold
- Backlit LCD
- Auto Power Off
- Hard Carrying Case Included

Specifications	
Velocity Range:	80 fpm to 4000 fpm, 0.4 m/s to 20 m/s
Temperature Range:	14°F to 122°F (-10°C to 50°C)
Velocity Resolution:	1 fpm (0.1 m/s)
Temperature Resolution:	0.1°F (0.1°C)
Battery:	1.5V AAA x 3 (included)
Dimensions:	6.2" X 2.4" X 1.2" (157mm X 60mm X 30mm)
Weight:	6.3 oz. (180g)

**EM30 TACHOMETER**



Analyze and Solve Motor Rotation Problems

- Measures rpm & rps
- Range: 100 rpm to 30,000 rpm
- Min/Max
- Data Hold
- Backlit LCD
- Auto Power Off
- Hard Carrying Case Included

Specifications	
Range:	100 rpm to 30000 rpm / 1.7 rps to 500 rps
Resolution:	0.1 rpm for 100 rpm to 999.9 rpm 1 rpm for 1000 rpm to 30000 rpm 0.1 rps for 1.7rps to 100rps 1 rps for 100 rps to 500 rps
Accuracy:	±0.1% reading for 100.0 rpm to 9,999 rpm ±0.02% reading for 10,000 rpm to 30,000 rpm
Auto power off:	2 min.(app.)
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.7" X 2.4" X 1.2" (121mm X 60mm X 30mm)
Weight:	6.3 oz (180g)

**EM80 SOUND LEVEL METER**



Analyze and Solve Excessive Sound Level Problems

- Range: 30 dB to 120 dB
- Auto or Manual Range
- Analog Bar Indicator
- Field Calibratable
- Auto Power Off
- Hard Carrying Case Included

Specifications	
Frequency range:	31.5Hz to 8KHz
Measuring range:	30dB to 120dB
Frequency weighting:	A
Resolution:	0.1 dB
Accuracy:	1.5 dB (under 94 dB)
Four ranges:	60dB / 80dB / 100dB / 120 dB
Time response:	Analog bar: 0.25 sec / Digital: 0.75 sec
Operating temperature:	-32°F to 104°F (0°C to 40°C)
Operating humidity:	10% to 80% RH
Battery:	1.5V AAA x 3 (included)
Dimensions:	6.1" X 2.4" X 1.2" (156mm X 60mm X 32 mm)
Weight:	5.2 oz (180g)

**ON THE JOB QUESTIONS?  
WE HAVE ANSWERS!**

**SUPCO's in-house Technical Support team has over 50 years of combined experience serving as hands-on HVACR technicians.**

**We are available to help you and your technicians with post-sale product questions.**

**EMAIL: [TECHSUPPORT@SUPCO.COM](mailto:TECHSUPPORT@SUPCO.COM)  
PHONE: 1-800-333-9125 Ex: 261**





## PCS220 PROGRAMMABLE REFRIGERANT CHARGING SCALE



Using the Latest Technology, the PCS220 Makes Charging a System Fast and Reliable. Just Set the Desired Amount of Refrigerant to Charge the System and the Built-In Solenoid Delivers the Precise Weight, then Sounds the Alarm Signaling the Completed Job.

- Compatible with ALL Refrigerants
- Range: 0 to 220 lbs (0 to 100 kg)
- Solenoid Activated for Real-Time Charging
- User Programmable
- Audible Alarm
- Built-In Memory for All Settings
- Measures Weight in lbs, ozs and kgs
- Large LCD Display w/ Backlight
- Auto Power Off (15 Mins)
- Field Calibration Available
- Hard Carrying Case Included
- 1 Year Warranty

Specifications	
Capacity	220 lbs (100 kg)
Accuracy	0.5% of Reading
Best Resolution	0.005 lbs/ 0.1 oz/ 2 g
Auto Shut Off	15 min
Operating Temperature	50°F to 122°F (10°C to 50°C)
Weight	6.03 lbs (2.74 kg)
Dimensions	9.1 in x 9.1in x 2.4 in (23 cm x 23 cm x 6 cm)
Power Source	5 X AA (included)
Battery Life	60 hrs

Applications	
• HVAC and Refrigeration Service	
• Precise Measurement of Refrigerant Containers	
• Automated Charging of Refrigerant Systems	
• Scales MUST be removed from case before use	

## RCS220 REFRIGERANT CHARGING SCALE



For Fast and Accurate Measurements.

- Compatible with ALL Refrigerants
- Range: 0 to 220 lbs (0 to 100 kg)
- Built-In Memory
- Measures Weight in lbs, ozs and kgs
- Large LCD Display w/ Backlight
- Auto Power Off (15 Mins)
- Field Calibration Available
- Hard Carrying Case Included
- 1 Year Warranty
- Scales MUST be removed from case before use

Specifications	
Capacity	220 lbs (100 kg)
Accuracy	0.5% of Reading
Best Resolution	0.01 lbs
Auto Shut Off	15 min
Operating Temperature	50°F to 122°F (10°C to 50°C)

Specifications	
Weight	6.03 lbs (2.74 kg)
Dimensions	9.1 in x 9.1in x 2.4 in (23 cm x 23 cm x 6 cm)
Power Source	5 X AA (included)
Battery Life	60 hrs

## DHS55 DIGITAL HANDHELD SCALE



This Compact Handheld Scale Provides Quick Measurements for your Refrigeration Applications.

- 55 lbs Max Scale
- 2% Accuracy
- One Button Operation
- Lbs/Kgs Selectable
- 9V Battery

### Specialty Instrument Selection Guide

- Measurement/Function-Weight
- Range: 0 to 55 lbs.



**HLD200 REFRIGERANT LEAK DETECTOR**



By Pinpointing a System Leak Quickly, the HLD200 Takes the Time and Frustration Out of Leak Detection.

- Detects All Halogen Refrigerants and Blends
- Auto Zero When Powered On
- High Efficiency Pump for Fast Response
- Audible Tick
- Seven Segment LED Indicators
- 12" Gooseneck
- Replaceable Sensor Tip
- Protective Sheath Included
- Hard Carrying Case Included
- Extra Sensor Tip (p/n HLDTIP) Included
- 1 Year Warranty

Specifications	
Sensor Type	Negative Corona
Sensitivity	0.1 oz/ yr
Sensitivity Levels	5
Audio Indicator	Variable Tick
Visual Indicator	Flashing LED
Warm Up Time	6 sec

Specifications	
Response Time	< 1 sec
Duty Cycle	Continuous
Probe Length	12"
Operating Temp	32° to 125°F
Power Source	2 X AA (included)
Battery Life	30 hrs



HLDTIP

**RPT61 PRESSURE TEMPERATURE CHART MASTER**



For Instant Information, the PT Chart Master Eliminates the Need for Traditional Pressure/Temperature Charts. Accurate and Easy to Use, the RPT61 Provides Pressure and Temperature Correlation for 66 Different Refrigerants.

- Choose Pressure in PSI, BAR or Mpa
- Choose Temperature in °F or °C
- 66 Refrigerant Tables
- Large LCD
- Auto Off (After 5 Minutes)
- Pocket Size
- Battery Included Power: 3V (CR2032)
- Soft Carrying Case Included
- 1 Year Warranty

Pressure Units	Range
PSI	5.1 to 462.5
BAR	0.35 to 31.88
MPa	0.035 to 3.188
Temperature Units	
Fahrenheit	-40°F to 155°F
Celsius	-40°C to 68°C

**WS100 WISCOPE INSPECTION CAMERA**



Makes Inspection of Hard to Reach Areas Simple. Easily Connects to MOST Android Phones, iPhones, or iPads. Its Internal Wifi Network Eliminates the Need to be Right Next to the Area being Inspected.

- High Speed Wi-Fi Network
- High Definition Camera (720p)
- 8.5mm diameter Scope Probe
- Waterproof Camera & Probe
- Integrated LED light (1W)
- Integrated Phone Mount
- Android and iPhone Apps easily downloaded
- 3 Foot Camera Probe (Included)
- Hook, Mirror, and Magnet attachments
- Carrying Case Included



Accessories	
WSC3	3 Ft Replacement Camera Probe
WSC10	10 ft Replacement Camera Probe

**DM10T ECONOMY DIGITAL MULTIMETER WITH TEMPERATURE**



- 1000 Volts DC
- Continuity
- 2MΩ Resistance
- 10 Amps DC
- 750 Volts AC
- Temperature

**Optional Accessories**

- TLA Test Leads**
- 1000V AC or DC Max
  - 10 Amps Max
  - Includes Screw-On Alligator Clips

**TPFDA**  
 FDA Approved  
 Temperature Probe

**SCCP**  
 Deluxe Soft Case

Specifications		Specifications	
Volts AC	750	Temperature Accuracy	±3°F (1.5°C)
Volts AC Best Resolution	1 V	Display (Counts)	2,000
Volts DC	1000	Operating Temperature	32° F to 74° F (0°C to 23°C)
Volts DC Best Resolution	0.1 mV	Relative Humidity	0% to 75% RH
Amps AC	10	Fuse Protection	mA: 0.2A/ 250V
Amps AC Best Resolution	0.1mA	Power	9 V Battery (included)
Base Accuracy (DC Volts)	± 0.5%	Size	5.5"L x 3"W x 1.5"D (140mm x 76mm x 36mm)
Resistance max. (Ohms)	2 M	Weight	8 oz (227 g)
Continuity	Yes	Warranty	1 Year
Temperature	-4 °F to 2,498° F (-20° C to 1370 °C)		

**CPH100 HVAC CURRENT PROBE**



- 400 Amps AC
- DC μAmps
- Continuity
- Temperature
- Frequency
- Includes Test Leads
- AC/DC Volts
- Resistance
- Capacitance
- Auto Shut Off
- 1 Year Warranty



Specifications		Specifications	
Temperature	-50°F to 2372°F -5°C to 1300°C	Volts AC	600
Temperature Accuracy	±3%	Volts AC Best Resolution	0.1mV
Display (Counts)	4,000	Volts DC	600
Data Hold	Yes	Volts DC Best Resolution	0.1mV
Sleep Mode	Auto Shut Off	Amps AC	400A
Operating Temperature	14°F to 122°F (-10°C to 50°C)	Amps AC Best Resolution	0.1A
Storage Temperature	-22°F to 140°F (-30°C to 60°C)	Frequency (Hz)	150.0KHz
Relative Humidity	0% to 90% RH	Frequency Best Resolution	0.001Hz
Power	2 1.5V AAA Batteries (included)	Base Accuracy (DC Volts) (AC Amps)	± (1.5% +3 dgts) ± (2.0% + 3 dgts)
Size	7.9"L X 2.0"W X 1.4"D (200mm X 50mm X 35mm)	Resistance max. (Ohms)	40M
Weight	7.1oz (200g)	Continuity	Yes
Warranty	1 Year	Capacitance	100.0μF
		Best Resolution	0.01nF

**VDL1000 VOLTAGE DETECTOR W/ LIGHT**



- Detects Voltage in Cables, Cords, Circuit Breakers, Lighting Fixtures, Switches, Outlets and Wires.
- Detects 90 to 1000 VAC
  - Beeps and Flashes RED when Voltage is Detected
  - Integrated LED Light
  - 2 AAA Batteries Included

### DSP1000 DIGITAL PSYCHROMETER



The DSP1000 Provides Fast, Accurate Measurements for Analysis of Critical Environmental Conditions.

- Fast Response Time
- High Accuracy
- Temperature
- Humidity
- Dewpoint Temperature
- Wet Bulb Temperature
- Max Hold
- Data Hold Function
- Micro Processor-based Design
- Dual Display Temperature & Humidity
- Auto Power Off (Disable Sleep Mode)
- Backlight
- 1 Year Warranty

Specifications	
Humidity Range	0-100% RH (Non-Condensing)
Temperature	-22°F to 212°F (-30°C to 100°C)
Dewpoint Temperature	-22°F to 212°F (-30°C to 100°C)
Wet Bulb Temperature	32°F to 176°F (0°C to 80°C)
Humidity	±2% RH (20% RH to 80% RH)
Accuracy	±2.5% RH (all other ranges)
Temperature	±0.9°F/±0.5°C (at 77°F/25°C)
Accuracy	±1.5°F/±0.8°C (all other ranges)
Resolution	0.01% RH, 0.01°F/0.01°C
Response Time	10 seconds

Specifications	
Battery Type	9V Battery NEDA 1604, IEC 6F22 (included)
Operation Temperature	32°F to 104°F (0°C to 40°C) (<80%RH)
Storage Temperature	14°F to 140°F (-10°C to 60°C) (<70%RH)
Size (H X W X D)	8.86" X 1.77" X 1.34" (225mm X 45mm X 34mm)
Weight	7.05oz (200g)

### THP2 THERMO-HYGROMETER PEN



- Measures Temperature & Humidity, Simultaneously
- Dual Display
- Temperature in °F or °C
- Pocket Clip
- Battery Included 1.5V (LR44)

Specifications	Temperature	Humidity (%RH)
Range	-4°F to 122°F (-20°C to 50°C)	10% to 90%
Resolution	0.1°F	1%
Accuracy	+/-2°F (+/-4°C)	+/-5% (for 40% to 80%)

### PT100 DIGITAL POCKET SURFACE THERMOMETER



- Ultra Sensitive Air and Surface Reading Probe
- Provides Fast Response - Within Seconds
- Temperature "HOLD" Switch - Keeps Readings Fixed
- Power: 9V Alkaline
- Size: 1.5" x 6.75" x 0.8"
- Weight: 7.2 oz.
- 1 Year Warranty

Part No.	Description
PT100	Fahrenheit Model
PT100C	Celsius Model
PT100H	High Temp. Fahrenheit

Specifications	
Range	<b>PT100/PT100C</b> -40°F to 199.9°F (-40°C to 93.28°C) <b>PT100H</b> -40°F to 250°F (-40°C to 121.1°C)
Resolution	0.1°F (-40°F to 199.9°F) 1.0°F (-40°F to 250°F)
Accuracy	0.2 Surface, 1.0 Air



### EM10 TEMPERATURE & HUMIDITY METER



- Diagnose and Solve HVAC System Problems
- Measures Temperature, Humidity & Dew Point
  - Temperature Range: 14°F to 122°F
  - Humidity Range: 0% to 99.9% RH
  - Min/Max/Avg
  - Data Hold
  - Backlit LCD
  - Auto Power Off
  - Hard Carrying Case Included

Specifications	
Temperature range :	14°F to 122°F (-10°C to 50°C)
Humidity range:	0% to 99.9% RH
Temperature Resolution:	0.1°F (0.1°C)
Humidity Resolution:	0.1% RH
Temperature Accuracy:	±1.8°F (± 1.0°C)
Humidity Accuracy:	3% RH (5 to 95% RH)
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.8" X 2.4" X 1.2" (121mm X 60mm X 30mm)
Weight:	6.2 oz (180g)

### EM60 DUAL DIFFERENTIAL THERMOMETER



- Make Fast Inlet/Outlet Temperature Comparisons
- Dual Thermocouple (J, K) Inputs
  - Temperature Range (K): -328°F to 2,372°F
  - Measures T1, T2 & T1-T2
  - High & Low Alarms
  - Data Storage
  - Min/Max/Avg for T1 & T2
  - Backlit LCD
  - Auto Power Off
  - Hard Carrying Case Included
  - Includes two (2) K-Type Thermocouples

Specifications	
Range:	K-Thermocouple: -328°F to 2372°F (-200°C to 1300°C) J- Thermocouple: -328°F to 2192°F (-200°C to 1200°C)
Resolution:	0.1°F ; (0.1°C)
Best Accuracy:	
K-Thermocouple:	± 0.2% of Reading ± 2°F (± 0.1% of Reading ± 1.4°F)
J- Thermocouple:	± 0.2% of Reading ± 2°F (±0.1% of Reading ± 1.4°F)
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.8" X 2.4" X 1.2" (121mm X 60mm X 30 mm)
Weight:	6.2 oz (180g)

### EM90 DUAL THERMOMETER (INFARED & THERMOCOUPLE)



- Choose the Most Convenient Method for the Application
- IR Range: -58°F to 518°F
  - Thermocouple Range (K): -328°F to 2,372°F
  - Min/Max/Avg
  - Data Hold
  - Backlit LCD
  - Auto Power Off
  - Hard Carrying Case Included
  - Includes One (1) K-Type Thermocouple

Specifications	
Temperature Range:	
- Infrared:	-58°F to 572°F (-50°C to 300°C)
- K-Thermocouple:	-58°F to 572°F (-50°C to 300°C)
Resolution:	0.1°F (0.1°C)
Best Accuracy:	
Infrared:	± 1.5% of Reading ± 4°F (± 1.5% of Reading ± 2°C)
K-Thermocouple:	± 0.1% of Reading ± 1.4°F (± 0.2% of Reading ± 1°C)
Emissivity:	0.95
Optical Ratio:	2:1
Laser power:	less than 1 mw
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.8" X 2.4" X 1.2" (121mm X 60mm X 30mm)
Weight:	6.2 oz (180g)

**ST09 DIGITAL POCKET THERMOMETER**



- Range: -40°F to 392°F (-40°C to 200°C)
- Accuracy: -14°F to 212°F (-40° to 100°C)
- Min/Max
- °F/°C Switch
- Updates Every Second
- Data Hold
- Battery Included
- Waterproof
- Auto Off
- Stainless Steel Stem
- Stem Length: 2-1/2"
- STBAT 1.5V (LR44)

**ST10 DIGITAL POCKET THERMOMETER**



- Range: -50°F to 392°F (-45°C to 200°C)
- Accuracy: +/- 2°F (+/- 1°C) Full Scale
- °F/°C Switch
- Updates Every Second
- Battery Included (Supco # STBAT) Spare Included
- Auto Off
- Stainless Steel Stem
- Stem Length: 4-23/32"

**ST11 DIGITAL POCKET THERMOMETER**



- Range: -58°F to 572°F (-50°C to 300°C)
- Accuracy: +/- 2°F (+/- 1°C) -4°F to 392°F (-20°C to 200°C)
- °F/°C Switch
- Updates Every Second
- AAA Battery Power (Not Included)
- Auto Off
- Stainless Steel Stem
- Stem Length: 6"
- Data Hold

**DIAL POCKET THERMOMETER**



- Recalibration Adjust

Part No.	Range	Dial Size	Scale	Stem Length
ST01	-40°F to 160°F (-40°C to 71°C)	1"	°F Scale Only	5"
ST02	0°F to 220°F (-18°C to 104°C)	1"	°F Scale Only	5"
ST08	-40°F to 160°F (-40°C to 71°C)	1-3/4"	°F and °C Scales	5"

**ST03 APPLIANCE POCKET THERMOMETER**



- Range: -20°F to 80°F (-29°C to 27°C)
- Mounting: Hangs or Stands
- °F and °C Scales
- Unbreakable Lens
- For Refrigerators and Freezers

**ST04 APPLIANCE POCKET THERMOMETER**



- Range: 100°F to 600°F (-38°C to 315°C)
- Mounting: Hands or Stands
- °F and °C Scales
- Unbreakable Lens
- For Ovens

**ST06 APPLIANCE POCKET THERMOMETER**



- Range: -40°F to 80°F (-40°C to 27°C)
- Mounting: Hangs Horizontally
- °F and °C Scales
- Unbreakable Lens
- For Refrigerators and Freezers

**REMOTE DIAL VAPOR TENSION THERMOMETERS**



- Stainless Steel Housing
- Analog Dual Scale Dial °F or °C
- 48" Capillary
- Back Connection Mounting Points
- Temperature Range -40°F to 60°F (-40° to 16°C)

Part No.	Dial Size	Flange
S6020BB	2"	Back
S6020FB	2"	Front
S6025FB	2.5"	Front
S6020HL	2"	Front
S6025HL	2.5"	Front

**SSDF20 SOLAR POWERED LCD THERMOMETER**



- Stainless Steel Housing
- °F or °C Selectable
- Easy to Read LCD Display
- Temperature Update Every 10 Seconds

Specifications	
Mounting	Surface front flange / Back connection
Range	-60°F to 160°F (-51°C to 71°C)
Accuracy	+/- 2°F
Dial Size	2"
LCD Display Size	3/8"
Sensor Length	60"
Update Time	10 seconds
On/Off Switch	Yes

**THC120 INDOOR DIGITAL THERMO-HYGROMETER WITH CLOCK**



- Table Top or Wall Mount
- Measure Temperature & Humidity Simultaneously
- Real Time Clock
- Large Triple Display
- Batteries Included 1(AAA)
- Min/Max Temperature and Humidity Memory Function
- 1 Year Warranty

Specifications	Temperature	Humidity
Range	32°F to 120°F 0°C to 50°C	10% to 90%
Resolution	0.1°F	1%
Accuracy	+/-1.8°F or 1.0°C	+/-5%

**ST1236-31 SURE TEMP THERMOMETER**



- The Sure Temp Thermometer is the Least Expensive Device Manufactured Today to Show Exact Temperature in a Case, Reach-In, or Walk-In Cooler.
- Simulates Internal Temperature of a Refrigerated or Frozen Product
  - Meets Food Service Criteria
  - Includes Bracket and Screw for Easy Mounting
  - Operating Temperature -40°F to 180°F

**TPFDA K-TYPE THERMOCOUPLE PROBE**



- Subminiature Connector with 4' Bead Tip Probe
- FDA Approved Insulation
- Temperature Range -40°F to 550°F, -40°C to 288°C

**LIT11TC INFRARED THERMOMETER**



- 11:1 Optical Ratio
- Laser Pointer
- High & Low Temperature Range
- Backlight
- Carrying Case Included
- K-Type Thermocouple (probe included)

Specifications	
Operating Range	32°F to 122°F (0°C to 50°C)
Measurement Range	-76°F to 932°F (-60°C to 500°C)
Best Resolution	.1°F (.1°C)
Accuracy	±2% of reading or 4°F. (whichever is greater)
Emissivity	0.95 Adjustable
Automatic Shut Off	Yes
Power Supply	2 AAA Batteries (Included)
Weight	6.3 oz. (179g)
Dimensions	6.9" x 1.5" x 2.8" (175mm x 39mm x 71mm)

**LIT6P INFRARED THERMOMETER WITH PROBE SENSOR**



- 2 Measurement Modes: Infrared & Probe Sensor
- 6:1 Optical Ratio
- Single Dot Laser Targeting
- °F/°C Selectable
- Data Hold
- Low Battery Indication
- Carrying Case Included

Infrared Specifications	
Temperature Range	-4°F to 518°F (-20°C to 270°C)
Resolution	0.1°F (0.1°C)
Accuracy	+/-9°F for -4°F to 32°F (+/-5°C for -20°C to 0°C) +/- 1.5% of Readings for 32°F to 518°F (0°C to 270°C)
Emissivity	0.97

Probe Sensor Specifications	
Temperature Range	-58°F to 518°F (-20°C to 270°C)
Resolution	0.2°F for -58°F to 392°F (0.1°C for -50°C to 200°C) 2°F for 392°F to 518°F (1°C for 200°C to 270°C)
Accuracy	1.5% of Reading for -58°F to -4°F (-50°C to -20°C) 1% of Reading for -4°F to 392°F (-20°C to 200°C) 2% of Reading for 392°F to 518°F (200°C to 270°C)

Probe Sensor Specifications	
Over Range Indication	"OL" or "-OL"
Auto Power Off	After 30 Seconds
Battery	1.5V x 3 (AAA)
Dimensions	7.1" x 1.9" x 1.7" (182mm x 49mm x 43mm)
Weight	4.2oz. (120g)

**PIT6L MINI INFRARED THERMOMETER WITH AMBIENT TEMPERATURE**



- 6:1 Optical Ratio
- Single Dot Laser Targeting
- Ambient Temperature (Tamb) Measurement
- °F/°C Selectable
- Data Hold
- Back Light
- Low Battery Indication

Specifications	
Temperature Range	-4°F to 518°F (-20°C to 270°C)
Accuracy	+/-9°F for -4°F to 32°F (+/-5°C for -20°C to 0°C) +/-1.5% of Reading +/-6°F for 32°F to 518°F (+/-1.5% of Reading +/-3.0°C for 0°C to 270°C)
Tamb Range	32°F to 122°F (0°C to 50°C)
Resolution	1°F (1°C)

Specifications	
Emissivity	0.95
Over Range Indication	"OL" or "-OL"
Auto Power Off	After 20 Seconds
Battery	1.5V x 3 (AAA)
Dimensions	3.9" x 2.3" x 0.9" (98mm x 58mm x 22mm)
Weight	2.5oz. (72g)

**PIT1 INFRARED THERMOMETER**



- 1:1 Optical Ratio
- Pocket Size
- Min/Max Measurements

Specifications		Specifications	
Optical Ratio	1:1	Emissivity	0.95 Adjustable
Temperature Range	-27°F to 428°F (-33°C to 220°C)	Automatic Shut Off	Yes
Best Resolution	.1°F (.1°C)	Power Supply	CR2032 (Included)
Accuracy	+/-2% of Reading or +/-4°F (2°C)	Weight	1.3 oz. (32g)
		Dimensions	.7" x 1.5" x 2.7" (18mm x 37mm x 68mm)



**TA SERIES COMPLETE LINE OF TEMPERATURE ALARMS**

Protect All Your Temperature Sensitive Areas.

- Adjustable Alarm Temperature Ranges
- Audible dB and Visual Alarm
- Switch for “No Delay” or “1 Hour Delay”
- Built-In Terminals for Remote Alarm or Telephone Dialer Connection (Except TA7)
- Switch for “No Delay” or “1 Hour Delay”

**TA33 TEMPERATURE ALARM WITH DISPLAY & BATTERY BACKUP**



The Battery Backup Allows Continuous Monitoring Even During Power Outages.

- Adjustable Range From -40°F to 160°F (-40°C to 71°C)
- Backlit Display
- 90 dB Audible Alarm

**Accessories**

- TA33P Replacement Sensor
- 21392 50' Probe Extension
- ADTA Phone Dialer

Specifications	
Alarm Adjustment Range	-40°F to 160°F (-40° to 71°C)
Temperature Accuracy	+/- 2°F (+/- 1°C)
Alarm Channels	1
Probe	Precision Thermistor with 6 ft. cable (TA33P)
Sensor Type	Thermistor
Maximum Probe Extension	200 ft.
Unit Operating Temperature Range	-10°F to 130°F (-23°C to 54°C)
Remote Alarm Connections	Screw type, 120VAC, 10 Amps.
Power	12 V Adapter 120 VAC with 6 ft. cable included (220V available). 24 Hrs 9V Battery backup.
Case	Hi-impact thermoplastic
Mounting	Flat Surface, external holes provided
Dimensions	4.8" x 3.2" x 1.4" (12.2cm x 8.1cm x 3.6cm)
Warranty	1 year

**TA22 SINGLE SET POINT TEMPERATURE ALARM WITH DIGITAL DISPLAY**



Easy to Read Display Shows Current Temperature, Alarm Status, Over/Under Mode Indicator, Alarm Set Point and Temperature (°F or °C)

- Adjustable Range From -40°F to 160°F (-40°C to 71°C)
- Back Lit Display
- 90 dB Audible Alarm

Specifications		Specifications	
Alarm Channels	1	Remote Alarm Connections	Screw Type, 120 VAC 5 Amp max (dry contacts)
Alarm Adjustment Range	-40°F to 160°F	Power	120/240 VAC
Range	(-40°C to 71°C)	Case	Hi-impact thermoplastic
Probe (TMPROBE15)	Encapsulated Sensor with 6 ft. cord	Mounting	Surface, external holes provided
Sensor Type	Thermistor	Dimensions	3" x 5" x 1 1/2" (76.2mm x 127mm x 38.1mm)
Maximum Probe Extension	200 ft.	Weight	13 oz.
Temperature Accuracy	+/-2°F (+/-1°C)	Warranty	1 year

**TA2 SINGLE SET POINT TEMPERATURE ALARM**



A Reliable, Inexpensive Alarm for Refrigerators and Freezers. Just Flip a Switch to Activate on a Rise or Fall in Temperature.

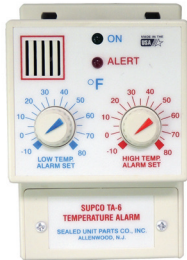
- Adjustable Range From -10°F to 80°F (-25°C to 30°C)
- 90 dB Audible Alarm

Specifications	
Alarm Channels	1
Alarm Adjustment	-10°F to 80°F
Range	(-25°C to 30°C)
Probe (TMPROBE15)	Encapsulated Sensor with 6 ft. cord
Sensor Type	Thermistor
Maximum Probe Extension	200 ft.

Part No.	Description
TA2	120/240 VAC Fahrenheit Model
TA2C	120/240 VAC Celsius Model

Specifications	
Remote Alarm Connections	Screw Type, 120 VAC 5 Amp max (dry contacts)
Power	120/240 VAC
Case	Hi-impact thermoplastic
Mounting	Surface, external holes provided
Dimensions	3" x 4 7/8" x 1 5/8" (76.2mm x 101.6mm x 25.4mm)
Weight	13 oz.
Warranty	1 year

**TA6 DUAL SET POINT TEMPERATURE ALARM**



Alarms on a Rise and Fall in Temperature.

- Adjustable Range From -10°F to 80°F (-25°C to 30°C)
- 90 dB Audible Alarm

Specifications	
Alarm Channels	1
Alarm Adjustment	-10°F to 80°F
Range	(-25°C to 30°C)
Probe (TMPROBE15)	Encapsulated Sensor with 15 ft. cord
Sensor Type	Thermistor
Maximum Probe Extension	200 ft.
Case	Hi-impact thermoplastic

Part No.	Description
TA6	120 VAC Fahrenheit Model
TA6C	120 VAC Celsius Model
TA6220	220 VAC Fahrenheit Model
TA6C220	220 VAC Celsius Model

Specifications	
Remote Alarm Connections	Screw Type, 120 VAC 5 Amp max (dry contacts)
Power	120/240 VAC
Mounting	Surface, adhesive pads/key hole slot
Dimensions	3" x 4 7/8" x 1 5/8" (76.2mm x 101.6mm x 25.4mm)
Weight	13 oz.
Warranty	1 year

**TA7 BATTERY OPERATED TEMPERATURE ALARM**



- For Sensitive Temperature Applications in Remote Areas
- Alarms on Rise in Temperature Only
- Adjustable Range From -10°F to 80°F (-25°C to 30°C)
- Battery Operated (9V)

Specifications	
Alarm Channels	1
Alarm Adjustment	-10°F to 80°F
Range	(-25°C to 30°C)
Sensor Type	Thermistor
Maximum Probe Extension	100 ft.
Remote Alarm Connections	None

Part No.	Description
TA7	Fahrenheit Model
TA7C	Celsius Model

Specifications	
Power	9 VAC alkaline battery (not included)
Case	Hi-impact thermoplastic
Mounting	Surface, external holes provided
Dimensions	5 3/4" x 1 1/2" x 1" (127mm x 38.1mm x 25.4mm)
Weight	5 oz.
Warranty	1 year

**TAP4 FOUR (4) PROBE TEMPERATURE ALARM**



Set Alarms for 4 Separate Temperature Applications. Provides a Quick Alert for a Multitude of Temperature Problems.

- Adjustable Range From -40°F to 100°F (-40°C to 38°C)
- 90 dB Audible Alarm

Part No.	Description
TAP4	-40°F to 60°F, 0°F to 100°F
TAP4C	-18°C to 38°C, -40°C to 16°C

Specifications	
Alarm Channels	4
Alarm Adjustment	-40°F to 60°F, 0°F to 100°F
Range	(-18°C to 38°C, -40°C to 16°C)
Probe (TMProbe15)	Encapsulated Sensor with 15 ft. cord (4 included)
Sensor Type	Thermistor
Maximum Probe Extension	300 ft.
Remote Alarm Connections	Terminal stop screw, connection

Specifications	
Power	120/240 VAC
Battery Backup	9V alkaline (not included)
Case	NEMA 3 type
Dimensions	6" x 7 1/2" x 3" (152.4mm x 190.5mm x 127mm)
Weight	1.9 lbs. (0.86 kg)
Warranty	1 year

**ADTA AUTO DIALER FOR TEMPERATURE ALARMS**



Operates with All SUPCO® Temperature Alarms, except TA7.

- Call Up to 4 Telephone Numbers
- 16 Second Message
- Non-Volatile Memory for Numbers and Voice Messages
- Internal 9V Back up Battery (not included)
- LCD Display
- 120/240 VAC Power Adapter (included)

**TMProbe15 THERMISTOR PROBE**



Thermistor probe for TAP4 Alarms, and LOGiT Series data loggers.

- 15 Foot probe
- NOT FOR USE IN LIQUIDS

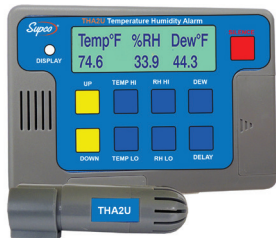
**ACCESSORIES**



Part No.	Description	TA22	TA2	TA6	TA7	TAP4
SW25	25' Extension Wire	*	*	*	*	*
SW50	50' Extension Wire	*	*	*	*	*
SW75	75' Extension Wire	*	*	*	*	*
SW100	100' Extension Wire	*	*	*	*	*
11093	Replacement Sensor 24 AWG (red tip)		*	*		

Part No.	Description	TA22	TA2	TA6	TA7	TAP4
USBS	USB to Serial Interface			*		
ADTA	Auto Dialer (Supplied)	*	*	*		*
TMProbe15	Thermistor Probe	*	*	*		*

**THA2U TEMPERATURE HUMIDITY ALARM WITH LOGGIN CAPABILITY**



- Measures and Logs Temperature, Humidity, Dew Point
- Audible and Visual Alarms
- Digital Display
- Log Up to 170 Days of Data
- Relay Contacts for Remote Alarm or Auto Dialer (ADTA)
- PC Software Included
- Remote Sensor Up to 300 ft.
- Direct USB Connection

Sensor Probe	
Operating Temperature Range	-40°F to 140°F (-40°C to 60°C)
Operating Humidity Range	0 to 90% RH, non condensing
Temperature Accuracy	+/- 2°F (+/- 1°C)
Temperature Resolution	0.1°F or °C
Humidity Accuracy	+/-2% RH
Humidity Resolution	0.1% RH
Calibration	User calibration for Temperature and Humidity
Dimensions	3.8 inches length with a diameter of 1.1 inches
Weight	0.9 oz.
Cable Length	300 ft. maximum

Base Unit	
Operating Temperature Range	32°F to 130°F (0°C to 54°C)
Storage Temperature	0°F to 130°F (-18°C to 54°C)
Operating Humidity	0% RH to 90% RH, non condensing*
Power Source	12V to 24 VAC/VDC, 0.78W alarm active
Battery Backup	9V alkaline battery for 35 hours operation during power outage
Clock Battery	CR2032, 10 years typical
Relay	N.O and N.C dry contact 5A 250V, resistive load
Dimensions	5.5" x 4.5" x 1.6"
Weight (without battery backup)	8.6 oz.

Alarm Specifications	
Temperature Alarm	High and Low Temperature and Humidity alarms. Condensation alarm
Alarm Delay	User selectable, up to 2 hours
Alarm Indication	Audio, Visual and a relay for remote alarm and phone dialer

Logging Specifications	
Sample Rate	1 second to 30 minutes
Data History Storage	2 hours to 170 days, depending on the sample rate
Memory Capacity	8150 samples for Temperature, Humidity and Dew Point

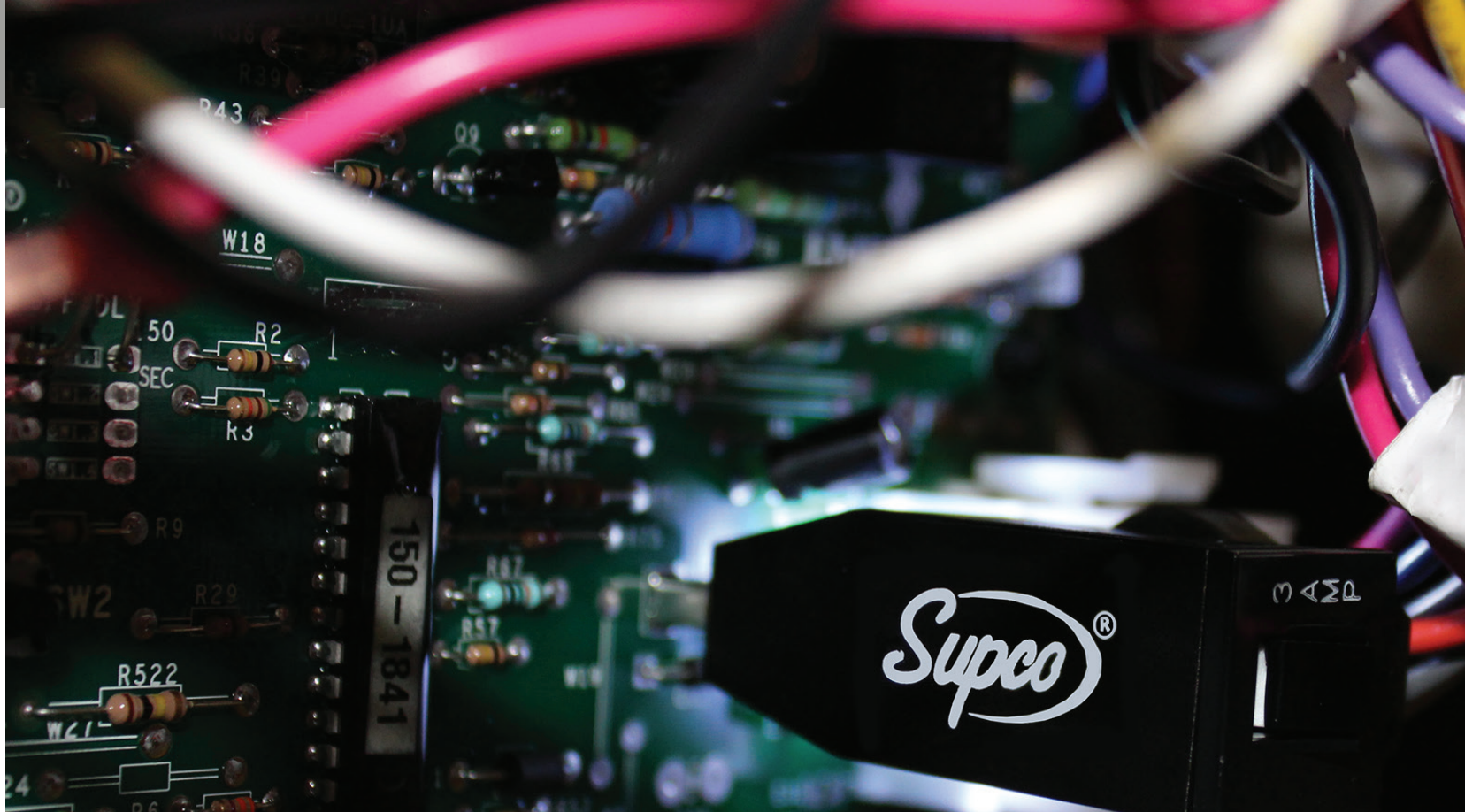
\* The sensor probe is not designed for continuous exposure to high humidity or caustic and or corrosive chemicals such as, but not limited to, concrete, liquids or chlorine.

**THA2P TEMPERATURE HUMIDITY PROBE**



- 15' replacement probe





# ACCESSORIZE APPROPRIATELY

**SOMETIMES IT'S THE LITTLE THINGS THAT MATTER.**

ON A JOB, THE RIGHT VALVE, BRACKET, CHEMICAL OR TOOL CAN BE A TIME SAVER AND AN EFFICIENCY MAKER FOR A TECHNICIAN. FOR YOU, IT'S THE PERFECT UPSELL OPPORTUNITY.

SUPCO IS YOUR ONE SOURCE FOR:

- SERVICE AND INSTALLATION ACCESSORIES
- THE FULL LINE OF HIGHSIDE® CHEMICALS
- OUR TECH TOOLKIT LINE OF UNIQUE AND INNOVATIVE TOOLS TO MAKE TECHNICIANS' JOBS EASIER



Pictured above: The Fuse PRO service tester accessory with a built in light helps diagnose control circuit failures by plugging directly into any system with a fused printed circuit board saving both time and money on low voltage testing by not wasting fast blow ATC fuses. See page 147 for full details.



**MINI-SPLIT CONDENSATE PUMPS**

Flowwatch® Design



GC1KFX2010



DE05LUA720

- Removes Condensate for Systems up to 42,000 BTUs
- 4 GPH
- 24 Foot Maximum Lift
- Vertical Suction: 6 Foot Maximum
- USA & Canada Agency Affiliations: ETL Listed 4000786/ CSA Certified C22.2 NO. 108/ Conforms to UL STD 778
- Noise Level: <21 dB @ 3.3' Distance
- Thermally Protected
- Alarm Level to Prevent Overflow
- Waterproof Connections Prevent Water Ingress
- Piston Pump Provides Long Life
- Optional Mounting Kit: #GC1KFX2010
- 2- Year Warranty

**FLOWWATCH® DESIGN MINI-SPLIT CONDENSATE PUMP WITH PLASTIC DUCT & INSTALLATION**

- Includes Mini FLOWWATCH® 2 Pump
- Includes Over 2 1/2 Feet of Plastic Duct
- Includes All Mounting Hardware
- Pre-mounted and Wired in Plastic Duct
- 2- Year Warranty

**SICCOM® Condensate Pump Line Up**

Part No.	115V	230V	N.O. Safety Switch	N.O. / N.C. Safety Switch	Pump Only	Pump w/ Plastic Duct
DE05LUA520	X		X		X	
DE05LUB100	X			X	X	
DE05LUB110		X		X	X	
DE05LUB120	X			X		X
DE05LUB130		X		X		

**MINI-SPLIT ACCESSORIES**



Universal mini split mounting brackets available in 7 sizes, with a capacity range of 240 to 440 lbs.

- Study Steel Construction
- Mounting Hardware Included

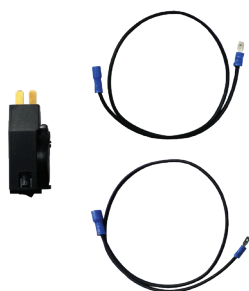
Part No.	Size	Max Lbs	BTU
MB100	14 1/2" x 17 3/4"	240	7,500 to 12,000 BTU
MB200	15 1/2" x 17 3/4"	240	7,500 to 12,000 BTU
MB300	16 1/2" x 21 5/8"	265	18,000 to 24,000 BTU
MB400	16 1/2" x 21 5/8"	240	12,000 to 24,000 BTU
MB500	19 1/4" x 21 5/8"	265	12,000 to 24,000 BTU
MB600	15 3/8" x 17"	330	7,500 to 18,000 BTU
MB700	18" x 18"	440	9,000 to 18,000 BTU

### CONTROL BOARD CIRCUIT BREAKER



- Lil Popper**
- Temporary Fix for Control Board Fuses
  - Stay Up and Running While Servicing Unit
  - Includes Quick Setting Thermal Cutout

Part No.	Description
POP3	3 Amp Breaker
POP5	5 Amp Breaker



- Fuse Pro**
- Two available sizes: 3 or 5 amp
  - Plugs into PC board for furnace, boilers, air handlers, unit heaters, roof top units, water heaters and any system with a fused printed circuit board
  - Auxiliary wires for more applications and hard to reach areas
  - Built in light for dark control board locations
  - For low voltage control circuit testing without wasting fast blow ATC fuses

Part No.	Description
BRK3	3 Amp Breaker
BRK5	5 Amp Breaker

### MAGTRACT RETRACTABLE MAGNETIC JUMPER



- For diagnostic use only
- Not intended for permanent installation

Specifications	
Maximum Voltage	30V
Maximum Amperage	5A
Maximum Length	20"

### MAGJUMPER® MAGNETIC TEST LEADS



- 30 VAC/VDC 5 Amps Maximum
- Ideal for Low Voltage Troubleshooting for Recessed Terminals
- Thermostats
- Control Boards
- Sensors
- Switches

Available in 5 Colors

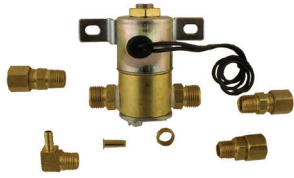
Part No.	Color
MAG1YL	Yellow
MAG1GR	Green
MAG1BL	Blue
MAG1BK	Black
MAG1RD	Red

### HYB1YL HYBRID JUMPER



- The Hybrid Jumper is a useful addition to a service technicians tool pouch. Included is an alligator clip with a magnet in the tip, making this a versatile accessory for low voltage troubleshooting.
- 20" Leads
  - Used for low voltage troubleshooting
  - For use up to 30V / 5A

**UHS UNIVERSAL HUMIDIFIER SOLENOID VALVE REPLACEMENT KITS**



- Each Kit Includes Solenoid Valve, Mounting Bracket and All Fittings to Remove and Replace the Existing Solenoid Valve
- Easy “Wrench-in” Installation
- Adjustable Water Flow Valve
- Time Saving
- Universal Replacement Reduces Inventory
- Economically Priced Compared to OEM Versions

Part No.	Volts	Replaces
SUHS24	24 V	Aprilaire® 4040, General® 990-53, Honeywell® 320016939-002, Skuttle® A01-0814-148
UHS120	120 V	Aprilaire® 4005, General® 990-52

**NEOPRENE AIR TUBING**



- Temperature Range: 0°F to 160°F (-17°C to 71°C)
- Pressure Range: -20 to 20 in. W.C.

Part No.	Dimensions	Length
SNAT3165	3/16" ID	5 ft.
SNAT316100	3/16" ID	100 ft.
SNAT185	1/8" ID	5 ft.

**SILICONE AIR TUBING**



- NSF 51, Soft, Red
- Temperature Range: -100°F to 500°F (-73°C to 260°C)
- 5 Foot Rolls

Part No.	Dimensions	Working Pressure	Burst Pressure
SSRT185	1/8" ID x 5/16" OD	25 psi	75 psi
SSRT3165	3/16" ID x 5/16" OD	20 psi	60 psi
SSRT145	1/4" ID x 3/8" OD	5 psi	15 psi

**TR10 TEFLON O-RING KIT**



- Package of 12 O-Rings
- 3 of Each Size

OD Size	ID Size
9/16"	7/16"
3/4"	5/8"
1"	7/8"
1 1/2"	1 3/8"

**GB10 FINNY'S GASKET BOOK**



- Replacements for Gaskets in Expansion and Solenoid Valves and Pumps
- 36 Different Gaskets Replace Most Common Gaskets Used Today
- Garlock Material Replaces All Older Materials

### HVAC STRAP™ HVAC MANIFOLD HANGER



Attaches Quickly and Easily to the Manifold Gauge, and its Magnet Allows the Technician to Hang the Gauge Almost Anywhere. Constructed from Heavy-Duty Woven Material, Coated, Metal Magnet.

- Safety (No High Voltage Near Gauges)

- Decreased Work Time (Put Gauges Where You Want Them)
- Non-Damaging to the Unit (Coated so it Won't Scratch or Damage)
- Increased Readability

### MB55 MOTOR BRACKET MOUNTING KIT - 3 LEGS



- Designed For Direct Drive Blower Motors Using the Flexible Bracket Mounting Arrangement
- Grommets & Eyelets Included

Specifications	
Motor Diameter	5.5", Bolt Circle 9" & 10.18"

### MB54 MOTOR BRACKET MOUNTING KIT - 4 LEGS



- Flexible Bracket
- Grommets & Sleeves Included

Specifications	
Motor Diameter	5.5", Bolt Circle 9" & 10.18"

### EL10 EASY LEVELER FURNACE LEGS



- Four Sturdy Bolt-adjusted Leg Extensions
- Mounting Hardware Included
- Adjustments Made with Standard Wrench

### ECAP321 HIGH EFFICIENCY PVC FLUE CAP



The Affordable Approach to Flue Pipe Problems Starts at the Top! The ECAP321 PVC Flue Cap Protects Today's High Efficiency Furnaces from Dirt, Moisture and Other Debris.

- Protection for High Efficiency Furnaces

- Universal Flue Cap Fits 1.5", 2" and 3" PVC Pipe
- Reduces Draft Inducer Motor Rust
- Helps to Eliminate Pressure Switch Service Calls
- Resistant to UV Radiation and Oxidative Degradation

**MO98 ZOOM SPOUT® OILER**



A Paraffin Based, Non-Gumming, High Quality Lubricating Oil

- All-Purpose Lubricating Oil
- Flexible Spout Extends and Retracts, Adjusts to Any “In-Between” Length
- Withstands High Temperatures Without Breaking Down
- Viscosity 92-99 @ 140°F
- 4 oz. Bottle
- 12 Per Case

**MO44 RUST BUSTER® SOLVENT**



Dissolves Rust

- Telescoping Pullout Spout
- Loosens Rust in Seconds
- No Lingering Odor
- Counter Display Case
- 4 oz. Bottle
- 12 Per Case

**S132 SIL GLYDE**



Long Lasting, High Film Strength Lubricant for All Surfaces Including Rubber, Metal, Wood and Glass.

- Weatherproof
- -20°F to 600°F Range
- 1.5 oz. Tubes
- 12 Per Case

**S8 SUPCO88 OIL ADDITIVE**



Introduced in 1954 and Valued Worldwide, this Super Lubricant is a “Must Use” in Repair and Preventative Maintenance Programs

- Compatible with ALL Refrigerant Oils
- Dissolves Sludge Buildup on Bearing and Valve Surfaces
- Prevents Binding of High Speed Compressors
- Prevents Excess Wear in Motors and Compressors
- 8 oz. Bottle
- 24 Per Case

**Application Notes**

**To Prevent Excess Wear on Expansion Valves and Capillaries Mix 1 Part SUPCO88 to 9 Parts Refrigeration Oil.**

- Prevents Excess Wear on Expansion Valve Needles and Seats
- Penetrates the Pores of ALL Moving Metal Parts of the Expansion Valve for Constant Lubrication

**Extend the Life of ALL Motors (i.e. for blowers and air conditioners)**

- A Few Drops Will Help Free a “Frozen” or Sticking Motor Shaft
- Mix 9 to One for Regular Bearing Maintenance
- Decreases “Bearing to Shaft” Friction and Sludge Accumulation when Mixed 9 to 1

**More Efficiency for High Speed Compressors**

- Increases the Lubricating Capability of Mineral Oils in High Speed Compressors
- Used in New Units to Reduce Current Draw by Reducing Friction and Preventing Overloading
- SUPCO88 Can be Left in the System Permanently

**HS2200 GREEN PANTABS**



Economical Condensate Drain Pan Treatment

- Helps Eliminate Odors
- Prevent Overflows & Water Damage
- Non-Corrosive
- Easy to Install
- Cleans Scale & Sludge
- Non-Toxic

- Acceptable for Computer Room Use
- Suitable for Use in Humidifiers
- Ideal for Fan Coils and Window Units
- Great for Refrigerated Food Cases
- Use 2 to 4 Tablets Per Month for Every 1 Ton of Air Conditioning/Refrigeration



**SO100/ST200 SLIMEOUT® CONDENSATE PAN CONDITIONING TABS**



- Prevent Plugging of the Air Conditioning Condensate Drip Pans and Drain Lines
- Does Not Release Any Chlorine or Other Noxious Fumes
- Eliminates Odors

Part No.	SO100	ST200
Description	Slime Out	Slime Tab
Tablets Per Jar	100	200
Tablet Size	35 grams	20 grams
Initial Application	2 tabs/3 tons	3 tabs/3 tons
Maintenance	2 per month	3 per month

**HS6002 R3 AC LEAK REPAIR QUICK SERVICE KIT**



- All-In-One
  - Quick Sealing Small Leak Repair
  - Lubricator
  - UV Dye to Reveal Larger Leaks Needing Repair
- Extends System Life and Quiets Noisy Compressor

- Seals Existing Leaks in Condensers, Evaporators, Hoses, Gaskets and O-Rings
- Renews O-Ring and Seal Elasticity
- Lubricates Moving Metal Parts
- Prevents Future Leaks
- Refills Available (HS60022)
- Includes 2 oz Preloaded Injectors

**REPAIR • RESTORE • REVEAL**

**R3 Quantity Chart for System Injection**

One injector unit contains 2 oz. (59ml) of R3

Tons	Injector Unit(s) (2 oz.)
1-6	1
7-12	2
13-19	3
20-26	4

\*For Automotive Use: Remove 1 oz. of oil from system and replace with 1 oz. of R3. 1/2 injector unit.

**Will R3-AC LEAK REPAIR® fix my leak?**

In general, R3 is designed to seal an AC system that has slow leaks and loses refrigerant over time. Maximum leak size approximately 0.50 mm. The system must be able to hold a vacuum on the low side for 15 minutes, at a minimum. If the vacuum leaks out or changes, the hole is too large to be sealed and mechanical repairs may be needed.

**R3-AC Leak Repair®** Extends system life and quiets a noisy compressor. It improves system lubrication up to 1200% and reduces energy consumption. It also improves the efficiency of older AC systems.



HS60022- Refill

**HS17002 THAWZONE® QUICK SERVICE KIT**



- Frees a Frozen System
- The Original Liquid Dehydrant for Control of Moisture in Refrigeration Systems
  - Compatible with All Refrigerants and Lubricants
  - Aids with Oil Return in Low Temperature Systems
  - Enhanced Moisture Control in Even the Most Advanced Systems
  - Helps Prevent the Formation of Acid
  - Refills Available (HS17022)



HS17022- Refill

**HS18002 ACID NEUTRALIZER QUICK SERVICE KIT**



- Keeps the Acid Away
- No Solids or Solid Residuals
  - Easy to Use, No Complicated Charts
  - Compatible with ALL Refrigerants and Lubricants
  - Neutralizes Acid in Recovery Equipment
  - Safe, Will Not Harm System Components
  - Refills Available (HS18022)



HS18022- Refill



**HS21002 TRACE 2® QUICK SERVICE KIT**



- Internal Refrigerant Leak Detector
- Works Under ALL Conditions
  - Not Affected by Noise or Wind
  - Visible in Bright Light
  - Visible Under Ultraviolet Light
  - For Refrigeration, Air Conditioning and Hydraulic Systems
  - Refills Available (HS21022)



HS21022- Refill

**HS32098 HVAC SUPER PRO**



- Perfect Solution for Bonding Copper, Aluminum and Brass in Any Combination
- Bonds Dissimilar Metals
  - Compatible with ALL Refrigerants
  - Formulated to Exceed all Requirements for R-410A Refrigerant and POE Oils
  - Vibration Tested for HVAC and Refrigeration Applications
  - Maximum Pressure > 850 psi
  - Bonds in 3-5 Minutes
  - 1 Bottle = 200 Bonds (5/8" Tube)
  - Non-toxic
  - Sold in Display Case (12/case)



Scan for the HS32098 video

**HS32032 INSTANT HVACR PATCH**



- A Space-Age Bonding System that Seals Holes, Cracks and Leaks
- Repairs are Made in a Minute
  - Safe to Use with ALL Refrigerants
  - Rated at 350 psi, 200°F
  - Should Only be Used on the Low Pressure Side of Systems
  - Non-toxic
  - Available 12/Case



Scan for the HS32032 video

**HS31032 HEAT SHIELD GEL**



- Protects Heat-Sensitive Components
- Prevents Heat Damage with No Drip, No Clean up
- Non-corrosive, Non-toxic and Non-staining
- Evaporates Within 24-48 Hours
- For Use on All Surfaces, Including Wood, Insulation, Valves, Piping and Drywall
- Available 12/Case



**LEAK LOCK® & LEAK LOCK® GOLD WITH TEFLON**



**HS10002 LEAK LOCK**  
1-1/3 oz. Tube  
Sold in Individual Pkg



**HS11002 LEAK LOCK GOLD**  
1-1/3 oz. Tube  
Sold in Individual Pkg

Resin Based Soft Setting Brushable Paste Pipe Joint Compound Resistant to All Refrigerants, Oils, Water and Most Chemicals, Liquids and Gases.



- Use with Pressures to 10,000 psi to Full Vacuums
- Temperature Range -200°F to 400°F (-93°C to 204°C)
- It Never Hardens and it Never Becomes Brittle
- Ideal for Joining all Metals, Plastics and Other Materials
- Will Stick to All Clean Surfaces
- Guarantees a Perfect Seal Under All Conditions
- Prevent Vibration From Loosening Nuts, Bolts, Plugs and Fittings
- Non-toxic



Leak Lock Part No.	Size	PKG
HS10001	1-1/3 oz. Tube	12/Case
HS10004	4 oz. Brush Top Plastic Jar	12/Case
HS10016	16 oz. Brush Top Plastic Jar	12/Case
HS10128	1 Gallon Can	1

Leak Lock Gold Part No.	Size	PKG
HS11001	1-1/3 oz. Tube	12/Case
HS11004	4 oz. Brush Top Plastic Jar	12/Case
HS11016	16 oz. Brush Top Plastic Jar	12/Case
HS11128	1 Gallon Can	1

**HS12001 RED EPOXY**



- When You Need a Sealant You Can Count On. High Performance, Heat Cured, Two Part Epoxy Kit
- Exhibits a Color Change When Cured (Turns Gold)
  - May be Cured with a Hot Air Gun or Open Flame in Minutes
  - -100°F to 300°F (-73°C to 149°C)
  - Working Pressure in Excess of 3000 psi
  - Tensile Strength: 6000 psi
  - Works on Vertical Surfaces
  - Pressure Tested to 3000 psi
  - Simple, Quick Mixing Application
  - Oil, Gas, Fuel & Solvent Resistant
  - No Rush, No Wait, You Control Curing Time
  - Kit Includes 2-1/2 oz. Tubes
  - 12/Case

**HS30004 & HS30016 SOLDERLENE®**



- High Quality, Paste Type, Non-Acid Soldering Flux
- Industrial Strength Wetting Agents to Promote Solder Flow
  - For Use with Low and Mid-Temp Soft Solders, Both Lead and Lead-Free
  - Effective on All Metals Except Aluminum and Magnesium
  - Brush Top Plastic Jars

Part No.	Size	PKG
HS30004	4 oz.	12/Case
HS30016	16 oz.	12/Case



**THAWZONE®**



- Enhanced Moisture Control in Even the Most Advanced Systems
- Aids with Oil Return in Low Temperature Systems
- Compatible with ALL Refrigerants and Refrigeration Lubricants
- Helps Prevent the Formation of Acid
- No Methanol
- Environmentally Sound

Part No.	Size	PKG
HS17001	1 oz.	24/Case
HS17004	4 oz.	12/Case
HS17016	16 oz.	6/Case

**HS13001 THREADLOCKER®**



- Prevents Loosening Nuts, Bolts, Brushings, Plugs and Fittings From Shock and Vibration
- Use on All Metals and Rigid Plastics
  - Disassembles with Standard Hand Tools
  - Excellent for Use with Dissimilar Metals and Materials
  - Single Component - Easy To Use
  - Helps Prevent Rust and Other Corrosion
  - Use on a Wide Range of Fastener Types and Sizes
  - Non-toxic
  - Lower Cost than Mechanical Fastener

**HSUVB001 SPIRO LITE UV BULB**



- 120 Volt Fluorescent UV Light Source
- 50 Watts
- UV Bulb for Leak Detection

**HSINJ001 HIGHSIDE® SYSTEM INJECTOR**



- Use For Introducing Any Liquid Into the Low Side of a Chemical Hermetic System
- Entirely Reusable
  - Constructed of Rugged Aluminum for Long Life
  - Designed For Use with Any Standard Manifold Gauge and Requires No Extra Valves or Fittings
  - Drip Proof, No Spill Design Takes the Mess Out of the Atmosphere

- Prevents the Introduction of Air Into an Operating System
- Can be Used on Sealed Operating Systems to Avoid Shutdowns
- Use with Trace, Trace 2, Thawzone and Acid Neutralizer
- Compatible with All Refrigerants

**GAS LEAK DETECTOR LOW TEMP**



- Leaks Appear as Large Strong Bubbles Which Cling to the Surface and are Fluorescent Under a Black Light
- Non-freezing
  - Fluorescent
  - Rated to -30°F (-34°C)
  - Non-toxic
  - Non-hazardous
  - Bubble-type Gas Leak Detector
  - Use on Hot and Cold Piping, Natural Gas, Most Gases, Air, All Refrigerants

Part No.	Size	Type	PKG
HS22008	8oz.	Plastic Bottle w/ Dauber	24/Case
HS22032	32 oz.	Trigger Sprayer Bottle	12/Case
HS22128	1 Gal.	Plastic Bottle	6/Case



### GAS LEAK DETECTOR MID TEMP



Leaks Appear as Large Strong Bubbles Which Cling to the Surface and are Fluorescent Under a Black Light

- Non-freezing
- Fluorescent
- Rated to 27°F (-3°C)
- Non-toxic
- Non-hazardous
- Bubble-type Gas Leak Detector
- Use on Hot and Cold Piping, Natural Gas, Most Gases, Air, All Refrigerants

Part No.	Size	Type	PKG
HS23008	8oz.	Plastic Bottle w/ Dauber	24/Case
HS23032	32 oz.	Trigger Sprayer Bottle	12/Case
HS23128	1 Gal.	Plastic Bottle	6/Case

### TRACE 2®



A Red Penetrant Dye in a Polyolester Base that is Completely Compatible with All Refrigerants and Lubricants, Old and New. Use to Locate the Hardest to Find Leaks Under the Toughest Conditions in Low Light or Dark Areas

- Leaks Show as Bright Red Stains
- For Refrigeration and Hydraulic Systems
- Fluorescent with Any Ultraviolet Light Source
- Non-volatile and Will Not Sludge or Deposit Gum
- Clearly Visible, Even Through Ice and Frost
- Locates Leaks Exactly, No False Positives
- Use 1/8 Ounce Per Pound of Refrigerant

Part No.	Size	Type	PKG
HS21004	4oz.	Plastic Bottle	12/Case
HS21016	16 oz.	Plastic Bottle	6/Case
HS21128	1 Gal.	Can	4/Case

### TRACE®



A Red Penetrant Dye in a Mineral Oil Base that is Completely Harmless to Refrigeration, Air Conditioning and Hydraulic Equipment

- Leaks Show as Bright Red Stains
- For Refrigeration and Hydraulic Systems
- Fluorescent with Any Ultraviolet Light Source
- Non-volatile and Will Not Sludge or Deposit Gum
- Clearly Visible, Even Through Ice and Frost
- Locates Leaks Exactly, No False Positives
- Use 1/8 Ounce Per Pound of Refrigerant

Part No.	Size	Type	PKG
HS20004	4oz.	Plastic Bottle	12/Case
HS20016	16 oz.	Plastic Bottle	6/Case
HS20128	1 Gal.	Can	4/Case

### HYDRO TRACE®



Locate Hard-To-Find Leaks in Any Closed System Containing Water And/Or Antifreeze Compounds Such as Propylene Glycol and Ethylene Glycol. When Added to a System Leaks are Easily Visible as Bright Red Stains Under Normal Lighting Conditions and as a Bright Orange Glow when Exposed to an Ultraviolet Light Source

- Use 1 Ounce Per 2 Gallons of Water

**Applications:**

- Refrigeration
- Hydronics
- Automotive
- Process Cooling
- Chemically Inert
- Will Not Harm Equipment or Seals

Part No.	Size	Type	PKG
HS26004	4oz.	Plastic Bottle	12/Case
HS26016	16 oz.	Plastic Bottle	6/Case
HS26128	1 Gal.	Can	4/Case

TRAX®



Bubble-type Liquid Leak Detector Formulated to Produce Long Lasting Bubbles Under 'Job-Site' Conditions

- Clear
- No Cleanup
- Environmentally Friendly
- Evaporates Leaving No Residue
- Temp Range: 27°F to 200°F (-3°C to 93°C)
- Non-toxic
- Does Not Pit Surfaces
- Detects Leaks as Small as 1 Micron
- Oxygen Compatible
- Meets the Performance Requirements of Military Specifications: MIL 25567 Type 1 A, B & C

Part No.	Size	Type	PKG
HS24001	1 1/3 oz	Squeeze Bottle	24/Case
HS24010	10 oz	Squeeze Bottle w/ Extendable Spout	12/Case
HS24128	1 Gal.	Bottle	6/Case

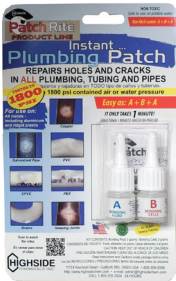
HS51032 DYE WASH



Removes Any Type of Leak Detecting Dye from Equipment and Pipe Surfaces to Prevent False Readings During Future and Follow-up Leak Detection

- Non-toxic
- Environmentally Friendly
- Non-corrosive
- Easy To Use
- 32 oz. Spray Bottle
- 12/Case

HS33033 INSTANT PLUMBING PATCH



A space-age bonding system that seals holes, cracks and leaks. The right patch for leaks in all HVAC/R tubing and equipment. No toolbox is complete without it.

- Two part - Bonding Fluid and Micro Cells
- For permanently sealing holes in all metals and rigid plastics
- Forms a high strength bond in seconds
- Full cure in 20 minutes - put equipment back in service
- Rated at 200psi contained pressure
- Handles 200°F (93.3°C) continuous temperature

HS16501 OIL CHECKER®



Easily Identify All Refrigeration, Air Conditioning and Heat Pump Lubricants in Just Seconds

- Easy To Use Two Step Process that Identifies All Types of Oils
- Test Results Within Seconds
- Each Kit Includes Two Complete Tests
- Should Be Used to Check the Type of Oil in a System Before Adding Any Additional Oil
- Compatible with Mineral, Alkybenzene and Polyolester Type Oils
- Saves Time and Money by Eliminating the Need for a Refractometer or Expensive Laboratory Tests
- Avoids the Costly Mistake of Mixing POE and Mineral Refrigeration Oils
- 12/Case



### HS16001 THE ACID TEST



For Detecting the Presence and Formation of Acid in Air Conditioning and Refrigeration Systems

- Easy to Use
- No Complicated Charts
- Results in Seconds
- Very Inexpensive
- Non-toxic
- Non-hazardous
- Accurate Results
- Eliminates Guess Work
- Safe Formula
- Biodegradable
- Non-flammable
- For Use With All Refrigerants
- 4 Complete Tests in Each Kit
- 12/Case

Color Change Indicators	Color	Acidity
	Blue or Violet	No Acid Present
	Green	Moderately Acidic
	Yellow	Acidic

### HS18004 ACID NEUTRALIZER



The BEST Acid Treatment Available, Neutralizes Residual Acid Caused by Compressor Burnout

- Works Fast
- Circulates Quickly
- Compatible with ALL Lubricants
- Safe, Will Not Harm System Components
- No Complicated Charts
- 4 oz. Bottle
- No Solids or Solid Residuals
- Compatible with ALL Refrigerants
- Neutralizes Acid in Recovery Equipment
- Easy To Use
- Can Prevent Compressor Burnout
- 12/Case

### SUPER FLUSH AC/R INTERNAL SYSTEM CLEANER



Neutralizes and Removes Acid Caused by Compressor Burnout

- Biodegradable
- Easy To Use
- Cleans in a Single Treatment
- Compatible with All Refrigerants and Refrigeration Oils
- Does Not Contain Halogenated Solvents
- Cleaning Agent for All A/C and Refrigeration Parts
- Environmentally Safe
- Non-flammable
- Saves Time and Money

**Use:**

- Before a System Retrofit
- After a Compressor Burnout
- Recovery, Recycling and Reclamation Equipment
- On Automotive (Remove Immediately)

**One Treatment Cleans & Removes:**

- Sludge
- Gum
- Debris
- Moisture
- Carbon Deposits
- Tar
- Grease
- Organic Acids
- Soot
- Mineral Acids

Part No.	Size	PKG
HS55032	32 oz Plastic Bottle	12/Case
HS55128	1 Gal. Plastic Bottle	6/Case

### HS58128 PINK STUFF



Heavy Duty, Foaming, Acid Based Concentrated Liquid Coil Cleaner Foaming Action Pushes Dirt Out of Coils to be Rinsed Away

- Non-flammable
- Easy To Use
- Non Oily
- Biodegradable
- 1 Gal. Plastic Bottle
- 4/Case

**Cleans & Brightens:**

- Condenser Coils
- Evaporator Coils
- Equipment Surfaces

**Effective On:**

- Heavy Oxidation
- Mold
- Lint
- Oily Dirt
- Algae
- Mildew
- Grease
- Oils



**HS59128 GREEN STUFF**



- Concentrated Alkaline Based Liquid Coil Cleaner
- Non-flammable
  - Fast Acting
  - Non Oily
  - Biodegradable
  - Brightens
  - 1 Gal. Plastic Bottle
  - 4/Case

**For Heavy Duty Cleaning & Degreasing of:**

- Condenser Coils
- Equipment Surfaces
- Permanent Filters
- Fins
- Evaporator Coils
- Electronic Coils

**Effective On:**

- Grease
- Lint
- Tar
- Mold
- Dirt
- Mildew
- Oil
- Dust
- Algae
- Nicotine

**HS56008 EV COIL MAX™**



Powerful Coil Cleaner in Powder Form to Avoid Dangerous Liquid Spills

- Environmentally Friendly
- Virtually Odorless
- Easy to Use and Clean Up
- Lowers Freight Costs
- Extra Long Shelf Life
- Its Powder Form is a Safer Alternative to Liquid Coil Cleaners
- No Acidic Residue
- Fast Acting
- Prevents Corrosion
- Less Storage Space
- 16 oz. Plastic Jar
- 12/Case

**HS58520 COIL BLASTER SOLVENT**



Solvent Based High Pressure Aerosol Coil Cleaner

- Pleasantly Scented
- Non-flammable
- Degreases
- Fast Drying
- Nonconductive
- Safe to Use on Equipment While Running
- Blasting Aerosol Nozzle
- No Residue
- 18 oz. Aerosol Can
- 12/Case

**Use On:**

- Evaporator Coils
- Electrical Equipment
- Condenser Coils
- Automotive Parts
- All HVAC/R Equipment
- Electrical Components

**Effective On:**

- Dirt
- Grime
- Grease
- Oil

**HS59520 HD JET FOAMER COIL CLEANER**



Heavy Duty Foaming Coil Cleaner in an Aerosol Can

- Convenient
- Pleasant Scent
- Environmentally Safe
- No Ozone Depleters
- 360° Spray Nozzle
- No Chlorinated Solvents
- Easy to Store
- Water Based
- Corrosion Inhibitors
- 19 oz. Aerosol Can
- 12/Case

**Quickly & Easily Liquifies:**

- Dirt
- Oil
- Deposits
- Grease
- Residues

**Use On:**

- Evaporator Coils
- Condenser Coils



### HS50004 ICEMAX® NICKEL SAFE ICE MACHINE CLEANER



- Prevents Liquid Spills
- Inhibits Formation of Scale
  - Prevents Corrosion
  - Environmentally Friendly
  - Will Not Separate or Chemically Change Over Time
  - Indefinite Shelf Life (When Kept Sealed)
  - Saves Freight Costs
  - Maximum Scale Removing Power
  - No Acidic Residue
  - Makes 1 Gallon of Concentrated Cleaner
  - 4.4 oz.
  - 12/Case

### FILTER FAN & VENT CLEANER



Heavy Duty Cleaner Specifically Formulated for the Heating, Ventilation, Air Conditioning and Refrigeration Industry

- Biodegradable
- Non-corrosive
- Easy To Use
- Environmentally Friendly
- Non-toxic
- Safe & Effective

Part No.	Size	PKG
HS52032	32oz Plastic Spray Bottle	12/Case
HS52128	1 Gal. Plastic Refill	6/Case

Removes:

- Dust
- Grease
- Tar Deposits
- Dirt
- Oil

Use On:

- Electronic Cells
- Permanent Air Filters
- All Vents & Vent Surfaces
- Equipment Surfaces
- Most Air Cleaning Equipment
- Permanent Pre-Filters
- Fan Blades, Plastic & Metal

### PRO-A SYSTEM CONDITIONER



Quick service kits come ready to use with a 2 ounce injector, pre-filled with Highside® PRO-A, along with a 12" charging hose with control valve and caps.

- Compatible with all refrigerants and oils.
- Polymer free
- Tested to be non-clogging
- Decreases equipment maintenance
- Frees sticking expansion valves
- Reduces seal degradation
- Extends system life and quiets noisy compressors
- Use 2 ounces for every 3 tons
- Safe for reclamation equipment

Part No.	Description
HS19002	PRO-A System Conditioner
HS19022	QSK Refill

### ONE-STEP PVC CEMENT



Multi-purpose, one step PVC cement. All weather, low VOC Blue medium Bodied PVC cement.

- Fast setting, One Step Cement
- Suitable for all weather conditions
- Works well on wet or dry pipe
- Allows for immediate pressure testing
- Meets ASTM D2564

Part No.	Description
HS10604	PVC Cement 4 oz.
HS10608	PVC Cement 8 oz.



### HS15128 ICE BLOCK HEAT TRANSFER & ANTI-FREEZE



Propylene Glycol Based Anti-Freeze and Heat Transfer Fluid Capable of Providing Pipe Burst Protection to Temperatures as Low as -100°F (-73°C). All Ingredients are Generally Regarded as Safe by the FDA, Making ICE BLOCK the Recommended Anti-Freeze Protection Where There is Possible Contact with Potable Water Sources

- Non-toxic
- Chemically Stable - Will Not Separate
- Maximum Heat Transfer
- Protects Pipes and Other System Components From Freeze Damage
- Safe & Easy To Use
- Lubricates As It Works
- Safe For Use Where Contact with Potable Water is Possible
- Maximum Corrosion Protection
- Will Not Leave Deposits
- 1 Gallon
- 6/Case

Applications Include:

- Refrigeration Systems
- Chilled Water Systems
- Coil Defrosting
- Ice Making Machines
- Water Based Heat Extraction System
- Snow Melting Systems
- Winterization of Any Water Based Systems
- Hydronic Heating Systems
- Solar Heating & Hot Water Systems
- Cooling Systems & Chillers
- Immersion Freezing
- Air Hydronic, Heat Pumps & Furnaces
- Process Cooling
- Ground Water Coupled Heat Pumps
- Cooling Towers
- Industrial Heat Transfer Systems
- Fire Hydrant & Sprinkler System

### KA12 KLEEN-AIR ODOR ABSORBER



- Simply Open the Spout to Absorb and Remove All Kinds of Odors
- One 8 Ounce Bottle Works for 1 Year in a 9' x 12' Room
- 12/Case

### HS31058 JUST-FOR-COPPER PRO BONDING KIT



Just-for-Copper is a permanent cold-weld for installing and repairing rigid copper pipe in gas and potable water applications.

- Use between 2 copper surfaces to repair, and prevent loosening
- Designed for flat joints in rigid copper and copper alloys
- Does not conduct electricity
- Not for use on threaded joints or flexible copper pipes

### HS53128 SPOREGO® BROAD SPECTRUM CLEANER



Uniquely stabilized specialty oxidant, combined with the essential oil of Australian Tea Tree, which is considered nature's most powerful fungicide, germicide and deodorizer

- Cleans Away Mold and Mildew
- Mitigates Moisture and Water Damage
- Multi-Surface, Broad Spectrum Cleaner
- Coil Cleaner - Evaporator and Condenser



### R410AG R410A ADAPTER & GAUGE



- Push Button Operation
- Reusable
- 5/16" Connection to System

### R134AG R134A ADAPTER & GAUGE



- Push Button Operation
- Re-Usable
- 1/4" Connection to System

### UV12K UNIVERSAL UV DYE KIT



- Kit Includes UVCONN Adapter
- Adapter has Push Button Operation and Standard 1/4" Connection

### UV12 UNIVERSAL DYE



- Convenient Aerosol
- Up to 12 Applications
- Compatible with All Refrigerants
- 12/Case

### HS76006 UV TRACE LIGHT



- Military grade aluminum
- Corrosion resistant coating
- 90mm UV LED flashlight w/ 26mm lens
- Requires 3 AAA batteries (not included)

### ATP1 ATTIC PRO® UTILITY LIFT



- Adjustable from 14" to 24"
- 20 ft. Cable Length
- Integrated Locking Hook
- Lifts Up To 250 lbs.
- Sturdy Steel Construction
- Equipment Strap Included
- Carrying Case Included
- Replacement Strap ATPSTRAP



Scan for ATP1 video

### BEARING BUSTERS



The Bearing Buster is designed for fast, painless removal of old, rusty, or corroded bearings in need of replacement. Choose from three sizes to fit the application.

- Slide Hammer Action
- Breaks bearing loose from shaft and bracket
- Reducing bearing replacement time
- Ergonomic rubber hand grips

Part No.	Description
BB34	Bearing Buster 3/4"
BB10	Bearing Buster 1"
BB114	Bearing Buster 1 1/4"

### FSC10 FLAME SENSOR CLEANER



Handy flame sensor cleaner useful in any service technician's tool kit.

- Easily clean sensors
- Prevents false starts
- Convenient key ring

### FPRO100 FURNACE PRO



For use with all furnace interlock switch types, rocker and push-button, Furnace Pro simplifies repair preparation in all furnace applications.

- Temporarily engages the furnace interlock switch for servicing
- Simplifies repair preparation
- Strong, rare earth magnetic ends
- Durable nylon construction

### ACS50 AC SHOULDER SLING



Constructed of heavy duty woven material, the ACS50 makes it easy to get parts and tools to the job quickly.

- Makes carrying gear safer and easier
- Holds up to 50 lbs.
- Integrated clasp hooks
- Pockets for storing parts and hardware
- 4" D-shaped gate hooks
- Adjustable length, up to 5 feet

**LD2000 SHOULDER DOLLY**



- Includes two harnesses & one 12' x 5' wide lifting strap
- Carrying capacity up to 800 lbs \*
- \* Subject to lifter's ability

**HD3500 PRO LIFT**



- Mesh padded harness & advanced strap system design
- Includes two harnesses & one 12' x 5' wide lifting strap
- Carrying capacity up to 1,000 lbs\*
- \* Subject to lifter's ability

**FP18 FILTER PULLER**



Makes Getting to Hard-To-Reach Filters Easy!

- 18" Extension
- Magnetic Tip
- Ergonomic Handle

**FP48 FILTER PULLER**



Makes Getting to Hard-To-Reach Filters Easy!

- 48" Extension
- Magnetic Tip
- Ergonomic Handle

**ESPRO1 STATIC PRO WRIST STRAP**



Dissipates Static During Electronic Repair and Maintenance

- Current Limiting Resistor
- Adjustable

**CAPDIS CAPACITOR DISCHARGE PEN**



- LED indicator to let you know if capacitor is charged
- Standard magnetic connector or alligator clip adapter
- Intended for Professional Use ONLY

FIN COMBS



- Straighten and Clean Evaporator and Condenser Fins

Standard Part No.	Fins per Inch	Color	High Efficiency Part No.	Fins per Inch	Color
FC0810	8 and 10	Orange	FCH0810	8 and 10	Orange
FC0915	9 and 15	Yellow	FCH0915	9 and 15	Yellow
FC1113	11 and 13	Blue	FCH1113	11 and 13	Blue
FC1214	12 and 14	Green	FCH1214	12 and 14	Green
FC1617	16 and 17	Lime	FCH1617	16 and 17	Lime
FC1820	18 and 20	Red	FCH1820	18 and 20	Red
FC2224	22 and 24	Purple	FCH2224	22 and 24	Purple
			FCH2830	28 and 30	Orange

FCR6/FCRH6 HANDY RING FIN COMB SET



- Six of the Most Popular Fin Combs Covering Twelve Different Size Fins on a Convenient Ring. Includes FC0810, FC0915, FC1113, FC1214, FC1617 and FC1820
- FCH6 Includes All Above, But "FCH" Instead of "FC, and are High Efficiency.

UFC1 FIN COMB



- Cleans and Straightens Fins for Better Operating Efficiency
- Ergonomic Handle

FPT10, FPT13 & FPT15 FIN JACK



- Straightens and Separates Bent Fins Quickly and Easily. One Tool Can Be Used For Up To 3 Sizes Of Fins

Part Number	Fins per Inch	Color
FPT10	9 and 10	Black
FPT13	11, 12 and 13	Orange
FPT15	14, 15 and 16	Red

FWB1 FIN WHISK BRUSH

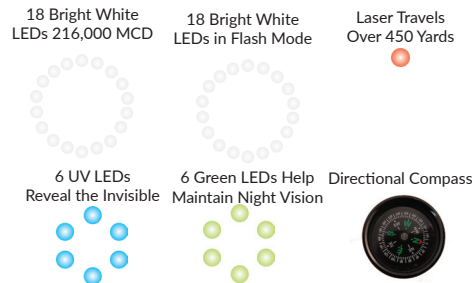


- Long Lasting, Sturdy Bristle Design

### FL6N1 6 IN 1 FLASHLIGHT



- 6 Distinct Functions
- 18 Powerful Ultra Bright White LEDs
- Red Laser Pointer
- 6 Pack Counter Display
- 18 Bright White LEDs Emergency Flasher
- 6 Powerful UV LEDs Reveal the Invisible
- Directional Compass



### PL6 STICK LIGHT



- 6 Super Bright LEDs
- Long Life
- Pocket Clip
- 3 AAA Batteries Included
- Water Resistant
- Sold in 12-pack Counter Display

### PSL8 SWIVELSTICK 8 LED FLASHLIGHT



Eight brilliant LEDs produce a floodlight effect that is easily moveable with a 180° magnetic swivel clip. The PSL8 features a water resistant case, and is sold in a handy 12 pack counter display.

- 8 brilliant high power LEDs
- Produces floodlight effect
- 3 AAA Batteries Included

### FLT3M TELESCOPING LED FLASHLIGHT



- Multi-Function LED Flashlight
- 3 Super Bright LEDs with Handy On/Off Button
- Powerful Magnet on Grip Handle & Light Tip
- Flexible Shaft for Hard to Reach Places
- Extendable to 21" (53cm)
- 1.5" (3.81cm) Round Inspection Mirror Attachment
- Pocket Clip for Secure Storage
- Batteries: 4-LR44 Included & Installed in Light Tip

### PWSL900 PORTABLE WORKSHOP LIGHT



- Portable workshop light brings ultra-bright 900 lumens just about anywhere! PWSL900 is 42 inches in length, with a rechargeable lithium-ion battery, and 180° rotating hooks on each handle.
- Ultra bright 900 Lumens
  - 36 SMD, non-replaceable LED's
  - Rechargeable Lithium-ion battery
  - 180° Rotating hooks on each handle
  - Switching modes: Low (18 LEDs), High (36 LEDs), Off
  - Charging status LED
  - 12V car adapter included
  - Wall adapter included
  - Drawstring carry bag included

### MWL300 MULTI WORK LIGHT



Multifunction work light provides versatility and an ultra bright work space.

- Ultra Bright 300 Lumens
- 1 Watt LED Torch
- Red Warning Light
- Strong Pivoting Magnetic Base
- 100,000 Hour LED Life
- Fold Away Swivel Hook
- Sold in 12 Pack Counter Display

**FIM20 FLEXIBLE INSPECTION MIRROR**



- 20" Mirror
- Flexible to 75° Angle
- Polished Stainless Steel
- Integrated Flashlight
- Ergonomic Handle
- Carrying Pouch Included
- 6 Per Display Case

**TELESCOPING MIRRORS**



- Double Ball Joint Head Adjustment
- Extendable/Retractable Design
- Carrying Pouch Included
- Glass Mirrors

Part No.	Description	Extended Length
IM1	1.25" Round Glass Mirror, Pocket Clip	27"
IM2	1" x 2" Oval Glass Mirror, Pocket Clip	28"
IM3	2.25" Round Glass Mirror, Vinyl Grip Handle	14 1/2"
IM4	2.25" Round Magnifying Glass Mirror, Vinyl Grip Handle	14 1/2"
IM5	2.25" x 3.25" Rectangular Glass Mirror, Vinyl Grip Handle	15 1/2"
IMK3	Combination Tool, Pocket Clip Includes: Match Clip, Magnet, 2" Round Mirror & PVC Pouch	27"

**RSIM1 RITE SITE® INSPECTION MIRROR**



The RITE SITE® Inspection Mirror presents a true, non-inverted image, making it a MUST for every engineer & technician.

- Optical quality glass prism
- Chrome plated telescoping arm extends to 16"
- Convenient pocket clip

**RSML1 RITE SITE® MIRROR LIGHT**



New technology uses bright LED lights and rare earth magnets in a compact, ruggedized package.

- 2 Bright LEDs
- Rare earth magnets
- 2 CR2032 batteries (included)
- Securely clamps to any inspection mirror
- Easily attaches to metal or plastic using the adhesive backed metal strip

**UVL200 UV LEAK DETECTION LIGHT & GLASSES**



- 9 LED Bulbs for High Intensity
- Impact Resistant Glasses
- Compatible with All Refrigerants

**RCB1 REFRIGERATION COIL BRUSH**



- 27 1/2" Long
- 12" Brush Length
- 1 1/2" and 3/4" Bristle Length

**CCB100 COIL CLEANING BRUSH**



The Coil Cleaning Brush makes cleaning of all types of coils easier than ever.

- Adjustable Brush Head pivots up to 120 degrees to allow cleaning from virtually any angle
- Patented stiffness adjustment slide allows for mild to aggressive cleaning action
- Dual Head Brush has two cleaning heads built into a single unit for different cleaning action
- Adjustable extension handle that extends up to 4 ft
- Heavy Duty cleaning head made of tempered stainless steel

**HVT2 SAFE-T-TESTER SCREWDRIVER**



- 110-220 VAC
- Light in Handle Indicates Power

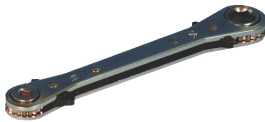
**SN347 PISTOL GRIP HOSE NOZZLE**



Universal, pistol grip hose nozzle

- Solid Metal
- Body plated for extra durability

**AIR CONDITIONING & REFRIGERATION WRENCHES**



Part No.	Description
RW516	1/4" and 3/16" Square x 3/8" and 5/16" Square
RW916	1/4" and 3/16" Square x 1/2" and 9/16" Hex
RWA10	Wrench Socket Adapter, 3/16" and 5/16" Male Hex x 1/4" Male Square

**UW1 UNIVERSAL WRENCH**



- Hex Sizes: 1/4", 5/16", 11/32" and 3/8"
- Square Sizes: 1/4" and 3/16"

**BJ10 BELT-JACK INSTANT BELT TIGHTNER**



Designed to Set Belt Tension and to Help Align Pulleys on All Belt Driven Units Including Blower Motors, Compressors, Transmissions and Automotive Components

- Opens from 4 1/2" to 15" with Extender
- Heavy Duty 3/8-16 Thread

**TC103 TEST CORD**



- 6' Length, Heavy Duty, 16 Gauge Wire
- Standard NEMA 1-15-P Male Plug to Medium Duty Spring Clips
- 2 Wire, Black/Red

**GFK1 GREASE KIT**



- One Time Installation
- Provides Easy Access to Hard-To-Reach Lubrication Points
- Makes Preventative Maintenance (PM's) Routine
- Eliminates Need for Cover Removal and Equipment Disassembly
- Complete with 10' High Pressure Tubing and Required Fittings
- Tubing Rated -60°F to 200°F

**TB123A SPANNER WRENCH**



- Wrench for Removing and Installing Washer Tub Retainer Nut
- Approximately 14" L x 2 1/2" W x 3/8" H

**445 KD® INTERNAL SNAP RING PLIER**



**446 KD® EXTERNAL SNAP RING PLIER**



**447 KD® REPLACEMENT TIPS FOR 445 & 446**



**145 KD® HOSE PINCH OFF PLIER**



**3793 2.5" OD HOSE PINCH-OFF PLIERS**



- Extra Long Cushioned Hand Grips for Comfort and Control
- Patented Clamping Mechanism Locks Automatically. No Screws or Levers to Set or Adjust
- Black Oxide Coated to Resist Rust and Corrosion

**3975 KD® CORBIN HOSE CLAMP PLIERS**



**FBP100 FAN BLADE PULLER**



- Sturdy, Heavy Duty Steel
- 5/8" Steel Center Shaft
- 4 Pull Fingers
- Alignment Tool Included
- Has Flats for Wrench
- Fine Thread Version Provides Additional Torque & Pulling Power



**CTP1 CAPILLARY TUBE CUTTER**

- 5" Stripper and Cutter. Fast, Efficient and All Purpose

**FP1 FAUCET PRO**

- For Easy Installation
- Slots Fit Most Hose Fittings
- Integrated Torque Amplifier

**TC2 HEAVY DUTY TUBE CUTTER**

- For Clean Cuts in Hard or Soft Copper, Aluminum, Brass, Thin Wall Steel and Stainless Steel
- Rollers have Flared Cut Off Groove
- Complete with Foldaway Reamer Blade and Spare Cutting Wheel
- Cuts Tubes from 1/8" Thru 1 1/8" O.D.
- Replacement Cutting Wheel P/N: TC2W

**ELB201 6" DIAGONAL WIRE PLIERS**

- Diagonal cutting pliers, two skinning holes for stripping 16 and 22 AWG wire
- The most efficient pliers for telecom use - cut, strip and crimp with one tool
- Quality construction, drop-forged chrome Vanadium steel with hot-riveted joint
- Induction hardened cutting edges and crimper features between handles
- Velcro® close, ripstop nylon holster included with each tool

**ELB351 HEAVY DUTY 10" LOCKING PLIERS**

- Fingertip release opens jaws instantly
- Adjustment screws set quickly and stay adjusted for repetitive jobs.
- Constructed of high grade, heat treated alloy steel

**RZS1 RAZOR BLADE SCRAPER**

- Ergonomic Grip
- Uses standard straight edge blades
- Thumbscrew blade lock

**SR6N1 6 IN 1 RATCHET SCREWDRIVER**



- Ratchet Action
- 3-Settings: Forward, Manual, Reverse
- Bit Sizes: Slotted 3/16" and 1/4", Phillips #1 and #2, Nut Driver 1/4" and 5/16"
- 12 Pack Counter Display

**LBIT LARGE PHILLIPS/SLOTTED REPLACEMENT BIT**



- SR6N1 Replacement Bit

**SBIT SMALL PHILLIPS / SLOTTED REPLACEMENT BIT**



- SR6N1 Replacement Bit

**DA86420 4 IN 1 MULTI-SOCKET**



- Replaces the Four Most Common Nut Drivers
- SAE Socket Sizes 1/4", 3/8", 5/16", 7/16"
- Telescoping Action Provides Two Socket Sizes at Each End
- High-Torque Grip Textured, Non-Slip Surface
- 12/Display Box

**SAB454 SECURITY MULTI-DRIVER**



- Features Extra-Long 3" Nosepiece Reaches Even Recessed Fasteners
- Includes 14 Security Tips Plus 2 Standard Tips on Eight 3" Long, Double-Ended Bits
- Countertop Display of 12

Bits Included	
Hex Security	1/8", 9/64", 5/32", 3/16"
Spanner	4, 6, 8, 10
Roberts Security	1, 2
Torx Security	10, 15, 20, 25
Phillips	2
Slot	7/32"

**SAB233 CLASSIC MULTI-DRIVER**



- Standard Size Driver. Replaces 16 of the Most Frequently Used Bits

Bits Included	
Hex Security	3/32", 1/8", 5/32", 3/16"
Roberts Security	2, 3
Torx Security	15, 20, 25, 30
Phillips	0, 1, 2, 3
Slot	1/4", 3/16"

**SAB710 RATIO MULTI-DRIVER**



- Multi-Driver Replaces 16 Screwdrivers
- 4 to 1 Ratio Nosepiece Turns Four Times with Each Turn of the Handle
- 1 to 1 Ratio Nosepiece Turns with the Handle
- Reversible Ratchet Changes Direction Quickly with One Hand, Even During Use
- 8 Extra-Long (3") Double-Ended Bits. Bits Stored in the Handle and a 1/4" Nut Driver in the Nose

Bits Included	
Hex Security	3/32", 1/8", 5/32", 3/16"
Roberts Security	2, 3
Torx Security	15, 20, 25, 30
Phillips	0, 1, 2, 3
Slot	1/4", 3/16"

**DA76070 2 IN 1 CUTTER/STRIPPER**

- Cuts Wire with One End, Grabs and Strips Wire with the Other
- Stripper Self-Adjusts to Wire; No Stripping Holes
- Cutting Head is Full-Flush Cutting and Low Profile with Stainless Steel, Induction-Hardened Jaws

**ELB320 HEAVY DUTY PLIERS - 11" EXTENDED**

- Specialty Pliers, 11" Reach
- Professional Quality
- Two-Color Textured Handles

**DA76190 DUAL SNAP RING PLIERS**

- Lighten Your Toolbox
- All-In-One Tool Removes Both Internal and External Snap Rings
- Spring-Loaded Oversized Handle, Cushioned for Comfortable Use

**RC2108 & RC2110 PRECISION ADJUSTABLE WRENCHES**

- Oversized Jaw Opens 18% Wider than Standard Wrenches
- Dual Calibrated Jaw
- Oversized Grip has Superior Balance to Reduce Hand Fatigue
- Constructed of Heavy-Gauge, Industrial-Quality Steel Insuring Durability

**ELB721 MINI CABLE TIE GUN**

- The Right Cable Tie Gun for Small Jobs
- Compact Size Accommodates Plastic Cable
- Ties up to 0.25" in Width
- Twist Cable Gun to Cut and Trim Off Excess Cable Tie Length

**CABLE TIE GUN & ACCESSORIES**

Never have the wrong size cable tie again! Never have to link multiple ties together! Quick and easy custom length cable ties for every application

- Choose between black or white cable ties
- No limits on cable lengths
- Economical, no more cable tie waste
- Fast & easy, makes traditional cable ties obsolete

Part No.	Description
507CW	Cable Tie Clips, White
507CB	Cable Tie Clips, Black
506SW	Cable Tie Spool, White
506SB	Cable Tie Spool, Black
510KB	Cable Tie Gun Kit, Black
510KW	Cable Tie Gun Kit, White
508PB	Cable Tie Plugs, Black (100)
508PW	Cable Tie Plugs, White (100)
509B5	Cable Tie Gun Blades (5)

**FLEXIBLE VALVE CORE TOOL**



With its flexible shaft, it allows the service technician to easily access valve cores that may be blocked. The center section of the tool has a slip fit design to allow the user to hold and spin the knurled end to loosen or tighten the valve.

- Flexible to over 120° angle
- CNC Finished

Part No.	Description
FVCT4	4.5" in length
FVCT4PLUS	5.5" in length. Cap stores up to 3 cores (Included)

**VCGT3 VALVE CORE GRIPPER TOOL**



The VCGT3 is designed to easily and safely replace standard valve cores. Its unique patent pending gripping action, and rugged stainless steel construction make this a 'must-have' tool for anyone who works with valve cores.

- 1/4" and 3/8" Gasket Installer
- Easy to use

**ET478 EXPRESS TORCH WITH TIP**



This self-lighting hand torch, with its pistol grip, provides a better ergonomic solution for the user. The integrated lighter is easy to replace. Works with 14.1oz. MAP//PRO gas cylinder ONLY. Additional tips are available.

- Dual mode trigger (momentary & locked)
- Replaceable piezo igniter
- Included ET4728 tip brazes up to 1 1/8"
- Use with 14.1oz. MAP//PRO gas cylinder ONLY (Not included)
- Lightweight

Accessories



Part No.	Description	Part No.	Description
ET4770	Express Torch Extension Hose	ET47014	Express Torch Gas Nozzle for ET4714
ET4714	Express Torch Tip 3/4", 7800 BTU	ET47022	Express Torch Gas Nozzle for ET4722
ET4722	Express Torch Tip 7/8", 9900 BTU	ET47028	Express Torch Gas Nozzle for ET4728
ET4728	Express Torch Tip 1 1/8", 12,600 BTU	ET47035	Express Torch Gas Nozzle for ET4735
ET4735	Express Torch Tip 1 3/8", 18,900 BTU	ET47050	Express Torch Gas Nozzle for ET4750
ET4750	Express Torch "Hot Air" Tip, 9820 BTU	ET4701	Express Torch Piezo Igniter and Trigger

**COVER GRIP DROP CLOTHS**



- PVC dots reduce slips and falls
- Liquid and tear resistant
- Fits snugly on stairs and corners
- 100% washable canvas
- US Patent No. 7833619

Part No.	Description
CGC3.5X12	Safety Drop Cloth, 3.5' x 12'
CGC5X8	Safety Drop Cloth, 5' x 8'
CGC8X10	Safety Drop Cloth, 8' x 10'
CGQD3.5X4	Safety Drop Cloth, 3.5' x 4'
CGHD4X15	Heavy Duty Drop Cloth, 4' x 15'
CGHD9X12	Heavy Duty Drop Cloth, 9' x 12'
CGHD12X15	Heavy Duty Drop Cloth, 12' x 15'

## SPECIALTY TAPES FROM INTERTAPE®



Part No.	Color	Dimensions	Backing	Adhesive	Temp.	Min/Multi
<b>AC698 Premium BOPP Film HVAC Tape. UL® Listed. 1818-FX</b>						
89306	Silver	1.88" x 359'	40 micron BOPP	Emulsion Acrylic	-65°F to 212°F	24
89307	Black	1.88" x 359'	40 micron BOPP	Emulsion Acrylic	-65°F to 212°F	24
<b>AC50-UL 14 Mil Cloth Duct Tape. UL® Listed. 181B-FX</b>						
99521	Silver	1.88" x 179'	PE Film	Rubber/Resin	32°F to 200°F	24
99522	Black	1.88" x 179'	PE Film	Rubber/Resin	32°F to 200°F	24
99540	Metalized	1.88" x 179'	PE Film	Rubber/Resin	32°F to 200°F	24
<b>AC36 11 Mil Medium Grade Duct Tape</b>						
4137	Silver	1.88" x 179'	PE Film	Rubber/Resin	32°F to 180°F	24
4382	Black	1.88" x 179'	PE Film	Rubber/Resin	32°F to 180°F	24
<b>AC20 9 Mil Utility Duct Tape</b>						
91407	Black	1.88" x 179'	PE Film	Rubber/Resin	32°F to 160°F	24
91410	Silver	1.88" x 179'	PE Film	Rubber/Resin	32°F to 160°F	24
<b>ALF Mastic Specialty Mastic Foil Tape. Tested to UL-723</b>						
99631	-	2" x 100"	Aluminum	Acrylic	-30°F to 350°F	12
99632	-	3" x 100"	Aluminum	Acrylic	-30°F to 350°F	12
<b>ALF201L-UL2 Mil Premium Aluminum Foil Tape. UL® Listed UL181A-P and UL181B-FX</b>						
ALF201LUL2560HR	-	2.5" x 60 yd	Aluminum Foil	Acrylic	-30°F to 350°F	16
ALF201LUL360HR	-	3" x 50 yd	Aluminum Foil	Acrylic	-30°F to 350°F	16
<b>ALF175L Medium Grade "Cold Temp" Aluminum Foil Tape. Tested to UL-723</b>						
ALF175L0250HR	-	2" x 50 yd	Aluminum Foil	Acrylic	-58°F to 200°F	24
ALF175L0350HR	-	3" x 50 yd	Aluminum Foil	Acrylic	-58°F to 200°F	16
<b>FSK1 Foil-Scrim-Kraft Specialty Tape. Tested to UL-723</b>						
99712	-	3" x 50 yd	Foil/Scrim/Kraft	Acrylic	-30°F to 350°F	12
<b>Thread Sealing Tape</b>						
TS260	White	1/2" x 260"	Virgin PTFE Film	-	-400°F to 700°F	200
TS520	White	1/2" x 520"	Virgin PTFE Film	-	-400°F to 700°F	200
<b>607 Medium Grade Vinyl Electrical Tape</b>						
85835	-	3/4" x 66'	PVC Film	Rubber/Resin	176°F	120
<b>Black Gaffers Tape</b>						
99736	Black	1.88" x 36 yd		Water Resistant		24

## 82758 SPRAY ADHESIVE



Designed for temporary to permanent bonding on several surfaces, such as wood, concrete, and sheet metal.

- AC50 Spray Adhesive 12 oz.
- Complies with National VOC Regulations
- Min/Multi: 12

## DM50 DUST MASKS



Dust masks for general use

- 50 masks per box

# PART NUMBER INDEX

## SYMBOLS

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3L140.....54	508PW.....171	90370.....16	A50.....54
3L160.....54	509B5.....171	90372.....16	A51.....54
3L170.....54	510KB.....171	90374.....16	A52.....54
3L180.....54	510KW.....171	90380.....16	A53.....54
3L190.....54	3793.....168	90382.....16	A54.....54
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