

## SINGLE PACKAGE ROOFTOP UNITS WITH X-VANE™ FAN TECHNOLOGY: GAS HEATING/ELECTRIC COOLING (RGV) AND ELECTRIC COOLING/OPTIONAL ELECTRIC HEAT (RAV) 3 – 6 TON

The new 3 to 6 Ton RGV/RAV series rooftop units (RTU) with X-Vane™ Fan Technology provides value added benefits never seen in this type of equipment before. New major design features include:

- Patent pending, the industry's first beltless direct-drive vane axial fan for rooftop units with electric commutated variable speed motor.
- Reliable fixed speed scroll compressor on 3-5 ton sizes and 2 stage scroll technology on 6 ton sizes.
- Upgraded unit control board with intuitive indoor fan adjustment.
- Reliable copper tube / aluminum fin condenser coil with  $\frac{5}{16}$ -in. tubing to help reduce refrigerant charge versus prior designs.
- New outdoor fan system with rugged, lightweight high impact composite fan blade.



RGV/RAV036-072

**X-Vane™ Fan**

### Installation ease

All RGV/RAV units are field convertible to horizontal air flow, which makes it easy to adjust to unexpected job site complications. RGV/RAV rooftop units up to 6 tons are specifically designed to fit on our existing roof curbs dating back to 1989 for worry-free original fit. Also, our large control box gives you room to work and room to mount accessory controls. Intuitive controls make setting up the required fan speed simple and accurate. Access to the blower section is no longer needed with the new design.

### Easy to maintain

With the new Vane Axial fan and direct drive ECM motor, there is no longer a need to adjust belts or pulleys as in past designs. This frees up maintenance and installation time.

Easy access handles provide quick and easy access to all normally serviced components. Our “no-strip” screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit's metal.

Sloped, corrosion resistant composite drain pan sheds water and won't rust.

RGV units are designed with a naturally draining heat exchanger. Unlike positive pressure heat exchangers, this does not need to be periodically, manually drained. This saves labor and maintenance expense.

### Easy to use

The newly re-designed Unit Control Board puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board for easy access. Setting up the fan is made simple by an intuitive switch and rotary dial arrangement. RGV/RAV rooftops have high and low pressure switches, a filter drier, and 2-in. filters standard.

### X-Vane Fan Technology

Direct drive X-Vane Fan Technology indoor fan system uses vane axial fan design and electrically commutated motors. This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings, or shaft.

### Design features include:

- Single-stage units deliver SEERs up to 14.0 and EERs up to 11.8. Two-stage units deliver IEERs up to 15.2 and EERs up to 11.2.
- All models are capable of either vertical or horizontal airflow.
- RGV/RAV rooftop units (RTU) were designed by customers for customers. With “no-strip” screw collars, handled access panels, and more the unit is easy to install, easy to maintain, and easy to use. Your new 3 to 6 ton RGV/RAV rooftop unit (RTU) provides optimum comfort and control from a packaged rooftop.

# RGV/RAV (continued)

## UNIT PERFORMANCE DATA — Single Stage Cooling /Single Circuit

UNIT	Nom. Tons	COOLING				GAS HEATING		Unit Dimensions H x W x L	Shipping Weight lb. [kg]
		Net. Cap (Btuh)	EER	SEER	IEER w/ 2-Speed Indoor Fan Motor	Input Cap. (Btuh) Stage 2	Thermal Efficiency (%)		
RGV036* <sup>^</sup> DA0AAA	3	34,400	11.5	14.0	N/A	65,000 - 90,000	80 - 82	33 3/8" x 46 5/8" x 74 3/8"	522 [237]
RGV048* <sup>^</sup> DA0AAA	4	47,000	11.6	14.0	N/A	65,000 - 130,000	80 - 82	33 3/8" x 46 5/8" x 74 3/8"	583 [265]
RGV060* <sup>^</sup> DA0AAA	5	58,500	11.0	14.0	N/A	65,000 - 130,000	80 - 82	33 3/8" x 46 5/8" x 74 3/8"	596 [271]

## UNIT PERFORMANCE DATA — Two Stage Cooling /Single Circuit

UNIT	Nom. Tons	COOLING				GAS HEATING		Unit Dimensions H x W x L	Shipping Weight lb. [kg]
		Net. Cap (Btuh)	EER	SEER	IEER w/ 2-Speed Indoor Fan Motor	Input Cap. (Btuh) Stage 2	Thermal Efficiency (%)		
RGV072* <sup>^</sup> DA0AAA	6	70,000	11.0	N/A	15.0	67,000 - 150,000	80 - 81	41 3/8" x 46 5/8" x 74 3/8"	647 [294]

## UNIT PERFORMANCE DATA — Single Stage Cooling /Single Circuit

UNIT	Nom. Tons	COOLING					Unit Dimensions H x W x L	Shipping Weight lb. [kg]
		Net. Cap (Btuh)	EER	SEER	Total Power (kW)	IEER w/ 2-Speed Indoor Fan Motor		
RAV036*0DA0AAA	3	34,400	11.7	14.0	2.9	N/A	33 3/8" x 46 5/8" x 74 3/8"	477 [217]
RAV048*0DA0AAA	4	47,000	11.8	14.0	4.0	N/A	33 3/8" x 46 5/8" x 74 3/8"	538 [244]
RAV060*0DA0AAA	5	58,500	11.2	14.0	5.2	N/A	33 3/8" x 46 5/8" x 74 3/8"	551 [250]

## UNIT PERFORMANCE DATA — Two Stage Cooling /Single Circuit

UNIT	Nom. Tons	COOLING					Unit Dimensions H x W x L	Shipping Weight lb. [kg]
		Net. Cap (Btuh)	EER	SEER	Total Power (kW)	IEER w/ 2-Speed Indoor Fan Motor		
RAV072*0DA0AAA	6	70,000	11.2	N/A	5.7	15.2	41 3/8" x 46 5/8" x 74 3/8"	602 [273]

\* Indicates Unit voltage: K = 208/230-1-60, H = 208/230-3-60, L = 460-3-60, S = 575-3-60

<sup>^</sup> See model nomenclature listing for gas heating options.

NOTE: BASE MODEL NUMBERS LISTED. SEE MODEL NOMENCLATURE LISTING FOR ADDITIONAL OPTIONS

Specifications subject to change without notice.