Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	

Specifications

- Maximum Shut-off Head: 18 feet

- Maximum Flow: 16 gpm

- Maximum Operating Pressure: 125 psi (8.6 bar)

- Maximum Water Temp: 230°F (110°C)

- Minimum Water Temp: 36°F (2°C)

- Electrical specifications:

  Voltage: 120V, 60 Hz
  Single phase

  Operating Power: 4W - 44W

  Max. AMP Rating: 0.54

- Equipped with a cast iron casing and should be used for closed loop systems only

- Taco circulator pumps are for indoor use only

- Acceptable for use with water or maximum of 50% water/glycol solution

Materials of Construction:

Casing: ....Cast Iron

Stator Housing: ....Composite

Cartridge: ....Composite

Impeller: ....Composite

Shaft: ....Ceramic

Bearings: ....Carbon

Thrust Bearing: ....Ceramic

O-Ring & Gaskets: ....EPDM

Integral Flow Check (IFC®):

    Body, Plunger ....Acetal

    O-ring Seal ....EPDM

    Spring ....Stainless Steel

Applications

The VR1816 circulator is a variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor. Operating modes include infinitely variable fixed speed to fine tune any zone, self-adjusting constant pressure for zone valve applications and self-adjusting proportional pressure for panel radiators with thermostatic radiator valves. The VR1816 is not suitable for chilled water or open loop potable water applications.
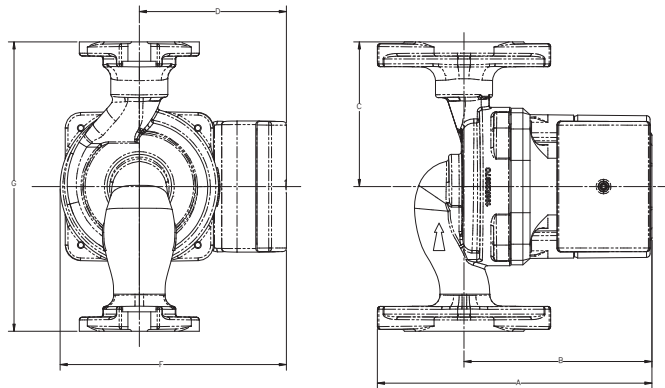
Pump Dimensions & Weights

Part Number	Flange Code	A		B		C		D		F		G		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
VR1816-HYI-FC2A00	S	6	152	4-1/8	104	3-3/16	80	3-1/4	82	5	126	6-3/8	161	5.8	2.6
VR1816-HYI-4C2A00	U	6	152	4-1/8	104	3-3/16	80	3-1/4	82	5-1/8	130	6-3/8	161	6	2.7

Mounting Positions

Flange Orientation
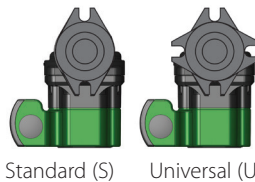
Standard (S)   Universal (U)

HYDRAULIC INSTITUTE ENERGY RATING

WAIP: 0.071

Model #: **VR1816**

| CIRCULATOR PUMP | CEI: 0.39 | (ER 188) |

ENERGY RATING

152   188

Most Consumptive   RANGE   Least Consumptive

Note: The ER value is dependent on the selected control. Multiple options may be available on this pump, as follows:

· Full Speed
· Manual Speed Control
· Pressure (Rated)

Power savings (watts) over a baseline case can be estimated by multiplying the ER by WAIP and multiplying by 7.46. Multiplying power savings by operating hours and cost of energy will yield estimated cost savings.

59KMNB   er.pumps.org   Apr 2021

Electrical Data

Model	Volts	Hz	Ph	Max. Amps	Max. Watts	RPM
All Models	120	60	1	.54	44	1590 - 4830
Motor Type	ECM, Permanent Magnet, Thermally Protected					

c(UL)us LISTED   FC