

VT2218 ECM High-Efficiency Circulator

Taco 00e[®] series — VT2218 Delta-T Variable Speed circulator is a temperature sensing, self-adjusting, variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor. Operating modes include Delta-T differential temperature, 4 fixed speeds, set point heat, set point cool and boiler protection.

- Delta-T operation maximizes system efficiency and comfort
- High-efficiency ECM motor uses up to 85% less electricity
- Can save hundreds in fuel costs
- LCD displays operating mode, temperature or speed setting, watts, GPM and supply & return temperatures
- Easy to program and install
- **Sure Start**[®] automatic unblocking mode
- **BIO Barrier**[®] filter protects pump from system contaminants
- Easy access junction box and 6" stranded wire leads for easy wiring



Features

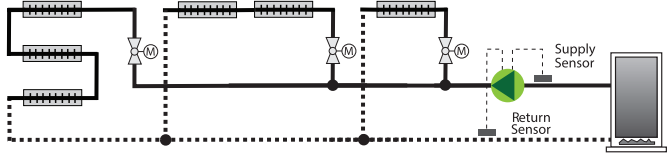
The ONLY temperature sensing pump in its class.

- 22' Shut-off Head, 18 gpm max flow
- ECM High-efficiency motor
- Operates in 5 different modes:
 - Delta-T (5-50°F) Variable Speed [factory pre-set : 20°F ΔT]
 - Multi-Speed (4 fixed speeds)
 - Set Point Heat (50-220°F) variable speed with boiler protection option
 - Set Point Cool (32-100°F)
 - Boiler Protection (100-160°F), protects boiler from low return water temperature
- Full Speed Over-ride
 - For system fill and purging
- Full backlit LCD displays:
 - Operating mode, temperature or speed setting, watts, GPM and supply & return temperatures
 - Error code diagnostics
 - English or Metric units
- Use with a Taco ZVC Zone Valve Control or SR Switching Relay for ON/OFF operation.
- Sensors and Integral Flow Check (IFC®) included
- Whisper quiet operation
- Optional 2-way flange reduces SKU's and provides universal fit-up to any flange position

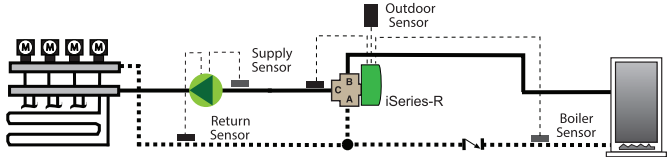


Typical Variable Speed Applications

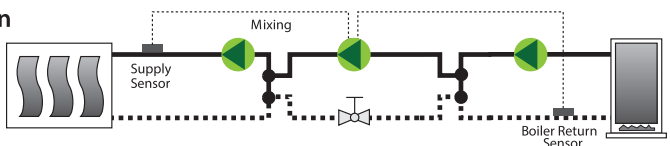
Delta-T
Across a series loop system using zone valves



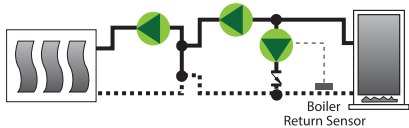
Delta-T
Across multi-zone radiant manifolds with loop actuators



Radiant Injection with boiler protection
Decreases speed to protect boiler from low return water temperature and flue gas condensation



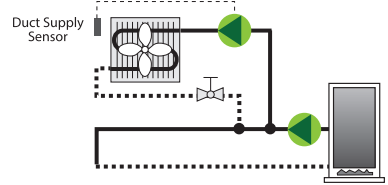
Boiler Protection — by-pass loop
Increases speed to protect boiler from low return water temperature and flue gas condensation



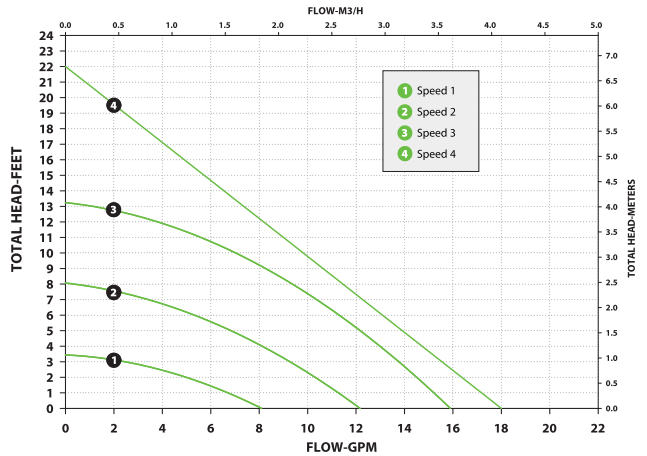
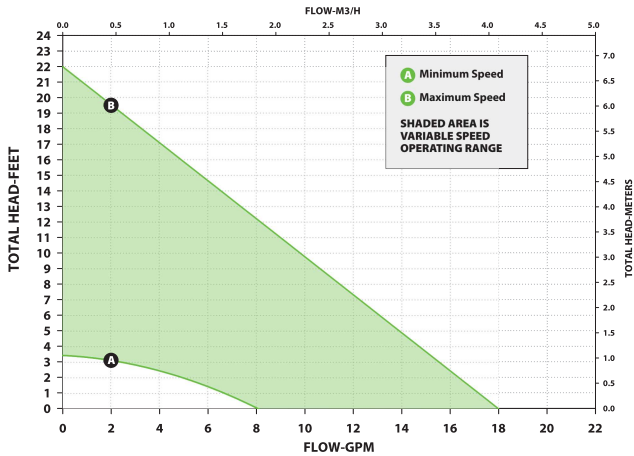
Heating or Chilled Water Cooling
Fan coil fixed water temperature

Set Point Heat
Decreases speed on temperature rise

Set Point Cool
Increases speed on temperature rise



Performance Curves for the Taco 00e® series— VT2218



Submittal Data Information

00e® series — VT2218

Submittal Data # 101-169
Supersedes: 06/09/16

Effective: 04/27/17

Specifications

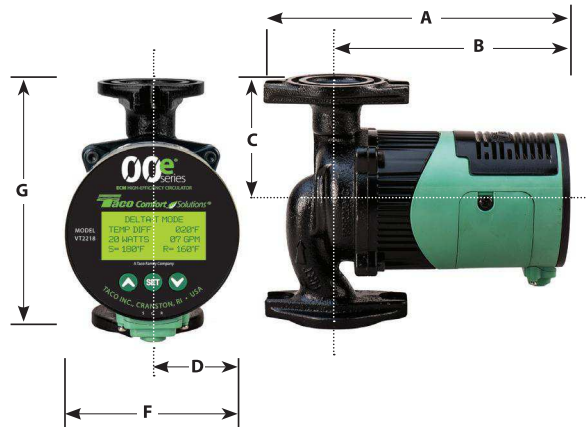
- Maximum Shut-off Head: 22 feet
- Maximum Flow: 18 gpm
- Maximum Operating Pressure: 125 psi (862 kPa)
- Maximum Water Temp: 230°F (110°C)
- Minimum Water Temp: 36°F (2°C)
- Electrical specifications:
 - Voltage: 110-120V, 50/60 Hz, Single phase
 - Operating Power Range: 9W to 58W
 - Maximum AMP Rating: 0.67
- 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: Aluminum/Composite
 Cartridge: Stainless Steel
 Impeller: Non-Metallic
 Shaft: Ceramic
 Bearings: Ceramic
 O-Ring & Gaskets: EPDM
 Integral Flow Check (IFC):
 Body, Plunger Acetal
 O-ring Seal EPDM
 Spring Stainless Steel

Applications

The VT2218 is a temperature sensing, variable speed, high-efficiency wet rotor circulator with an ECM permanent magnet motor. It's ideal for Delta-T or setpoint temperature applications. Typical uses include hydronic systems zoned with zone valves, radiant loops, injection pumping, snowmelt or hydro-air fan coils. Can also be used in constant speed mode for zoning with circulators, indirect water heaters or primary boiler loops.



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
VT2218-HY2-FC1A00	S	8-1/8	207	6	153	3-1/4	82	2	54	4-1/4	107	6-3/8	161	7-3/4	3.52
VT2218-HY2-4C1A00	U	8-1/8	207	6	153	3-1/4	82	2	54	4-1/4	107	6-3/8	161	7-3/4	3.52

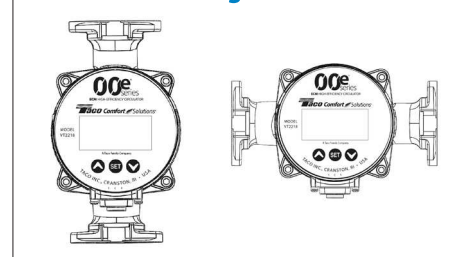
Electrical Data

Model	Volts	Hz	Ph	Max Amps	RPM
All Models	110/120	50/60	1	.67	1650 - 4200
Motor Type	ECM, Permanent Magnet, Electronically Protected				

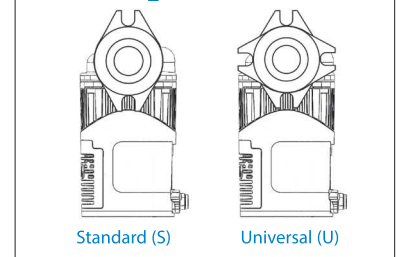
Maximum Watts

Speed 1	Speed 2	Speed 3	Speed 4
9	24	40	58

Mounting Positions



Flange Orientation



Taco Inc., 1160 Cranston Street, Cranston, RI 02920 / (401) 942-8000 / Fax (401) 942-2360
 Taco (Canada) Ltd., 8450 Lawson Road, Unit #3, Milton, Ontario L9T 0J8 / (905) 564-9422 / Fax (905) 564-9436