



Viridian[®] — VT2218

Delta-T Variable Speed, ECM High-Efficiency Circulator

The Viridian VT2218 circulator is a temperature sensing, self-adjusting, variable speed 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.





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 LCD display showing:
 - Operating mode, temperature or speed setting, watts, 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
- BIO Barrier® filter protects rotor/bearings from black iron oxide
- Whisper quiet operation

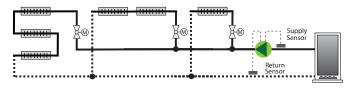


Applications & Performance

Typical Variable Speed Applications

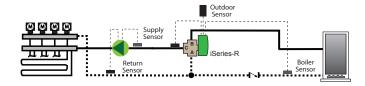
Delta-T

Across a series loop system using zone valves



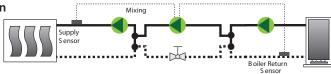
Delta-T

Across multi-zone radiant manifolds with loop actuators



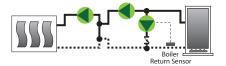
Radiant Injection with boiler protection

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

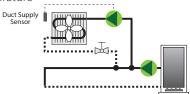
Fan coil fixed water temperature

Set Point Heat

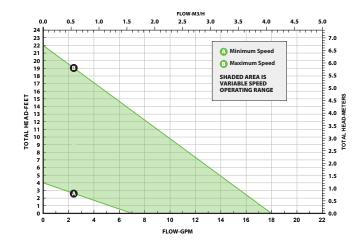
Decreases speed on temperature rise

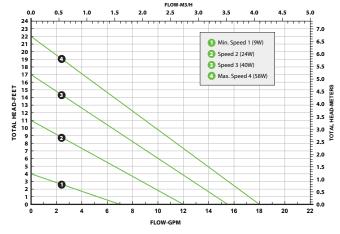
Set Point Cool

Increases speed on temperature rise



Performance Curves for the Viridian® VT2218





Submittal Data Information Viridian® High Efficiency Circulator

Submittal Data # 101-169 Supersedes: New

Specifications

- · Maximum Shutoff Head: 22 feet
- · Maximum Flow: 18 gpm
- Maximum Operating Pressure: 125 psi (862 kPa)
- Maximum Water Temp: 230°F (110°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:



Applications

The VT2218 is a temperature sensing, variable speed circulator 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

	Α		В		C		D		F		G		Ship Wt.	
Model	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
VT2218F	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		
VT2218F	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

Effective: 08/21/14

Mounting Positions



Flange Orientation

