



A true variable speed
ECM circulator



ecocirc® 19-16

SMART CIRCULATOR FOR HEATING, COOLING AND POTABLE
WATER APPLICATIONS



The ecocirc is setting new standards!

ecocirc® 19-16 is a TRUE Variable Speed ECM Circulator with energy efficient spherical motor technology.

Higher Efficiency and Improved Performance

The ecocirc® 19-16 is a Smart, User-friendly, TRUELY variable speed circulator which is ideally suited for use in heating, cooling and potable water application. Designed to be set once and forgotten. The onboard intelligence automatically adjusts speed to ensure maximized efficiency and accurate performance to suit a wide range of performance requirements.

Standard Modes of Operation

1. Proportional Pressure (factory default mode)

Sensorless control mode that automatically adjusts differential pressure and flow according to the selected proportional pressure curve. This mode is recommended for use in systems with high pressure losses in the system. Identified by blue LED lit behind the adjustment dial.

2. Constant Pressure

Sensorless control mode that automatically maintains a constant differential pressure by varying the flow according to the selected pressure curve. This mode of operation is preferred in systems with relatively small pressure losses in distribution systems. Identified by green LED lit on the adjustment dial.

3. Constant Speed

The pump maintains a fixed speed at any flow demand, based on the curve that is set on the adjustment dial. Identified by the white light lit on the speed adjustable dial.

Auxiliary Modes

1. Automatic Air Purge

Air trapped in the pump housing can be purged using this function.

2. Standby

This helps to keep the power consumption low (<1W) when pump operation is not required.

Application

The ecocirc 19-16 was designed with a super premium efficiency ECM motor engineered specifically for hydronic heating, cooling and potable water systems.

Check Valve

An integral check valve is supplied loose with every unit. If a check valve is required for installation, insert the O-ring end of check valve into the discharge port of the pump body and hand press the valve body into place until it snaps in position.



The Perfect Balance of RELIABILITY • EFFICIENCY • SIMPLICITY

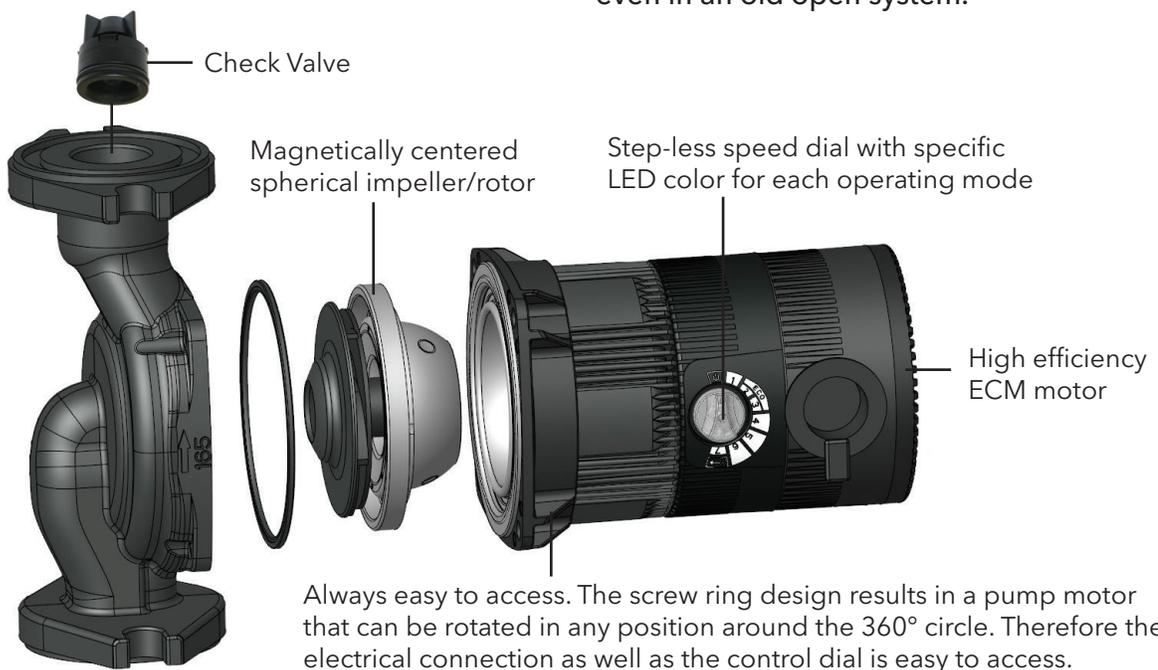
Higher Efficiency & Improved Performance

The motor is provided with precise frequency and voltage for optimum performance. The permanent magnet motor eliminates the need for input power to magnetize the rotor allowing the motor to deliver superior starting torque and energy efficiency compared to standard induction motor circulators.

Simplicity

The only moving part is the rotor/impeller unit. The shaft, shaft seals and conventional bearing bushings have been eliminated. The rotor/impeller has Anti-Block Technology.

The Anti-Block Technology separates the main flow of the pumped media completely from the permanent magnetic parts. It is virtually impossible for the ecocirc 19-16 to block-up even in an old open system.

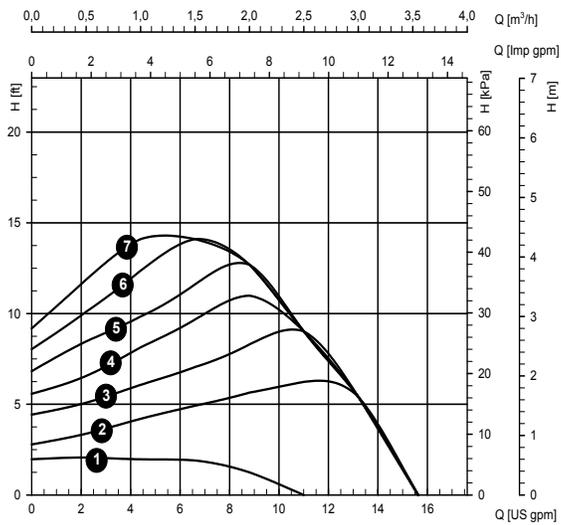


Technical Data

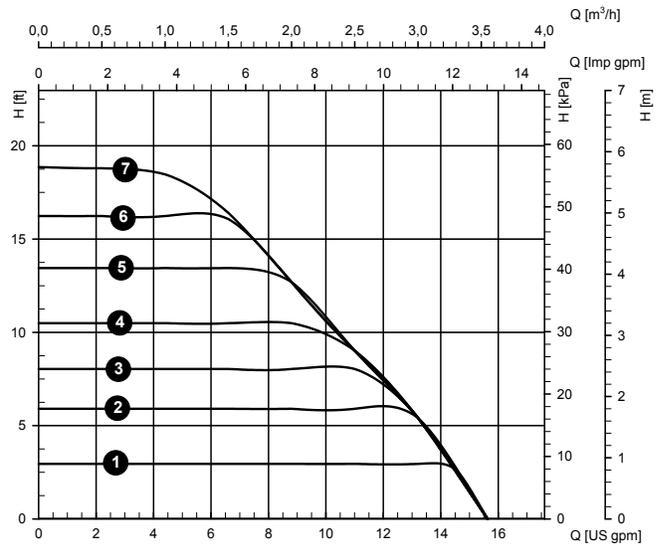
Motor design	Shaft-less spherical motor using permanent magnet technology for improved efficiency
Maximum System Pressure	150 PSI (10 bar)
Maximum Fluid Temperature	203°F (110°C)
Minimum Fluid Temperature	14°F (-10°C)
Electrical Supply	115 Volt, 60 Hertz, 1 Phase
Suitable for the following liquids	water/glycol mixtures*
Power Consumption	4 - 60 Watts
Protection	IP 44
Insulation Class	F

* Check hydraulic performance with more than 20% glycol

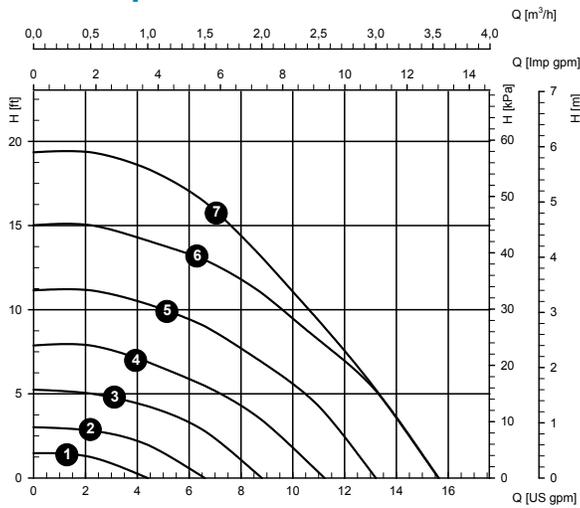
Proportional Pressure (default mode)



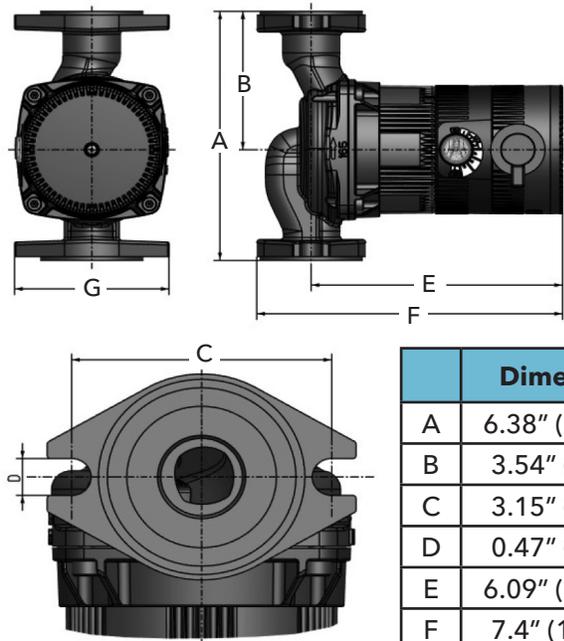
Constant Pressure



Constant Speed



Dimensional Drawings



Dimensions	
A	6.38" (162mm)
B	3.54" (90mm)
C	3.15" (80mm)
D	0.47" (12mm)
E	6.09" (154mm)
F	7.4" (188mm)
G	3.74" (95mm)

Specifications

Part Number	Model	Pump Body	Shipping Weight (lb)
6050B2003	ecocirc 19-16	Cast Iron	7.25
6050B2004LF	ecocirc 19-16	Stainless Steel	7.00



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