The Perfect Balance of

RELIABILITY
EFFICIENCY
SIMPLICITY

ecocirc® auto and vario

EFFORTLESS **"SMART"** HEATING CIRCULATOR

A-139A

Bell & Gossett
a xylem brand

The **eco**circ is setting new standards!

User-friendly, speed controlled heating circulator with energy efficient spherical motor technology.

Control Modes

auto: The ecocirc auto has a proportional pressure control which automatically adjusts the pump performance continuously to the requirements of the heating system. Based on the curve that is set on the adjustable dial. When the zone or thermostatic valve closes, the pump performance is reduced to save energy and to avoid velocity noise in the system.

vario: The ecocirc vario allows for step-less speed control to set the pump performance to meet individual system requirements.

Application

The ecocirc auto and vario circulators were designed with highly efficient electronically commutated permanent magnet motor (ECM/PM technology) specifically for hydronic systems.

Dry Run Protection

The ecocirc is protected against dry run conditions. The circulator recognizes when there is no water in the pump housing and automatically enters a protection mode until the presence of water is detected.

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Higher Efficiency & Improved Performance

Through microprocessor technology the fields of the motor are provided the precise frequency and voltage for optimum performance. A permanent magnet motor eliminates the requirement for input power to magnetize the rotor, thus maximizing efficiency. This unique design offers superior starting torque when compared with standard induction motor type 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.

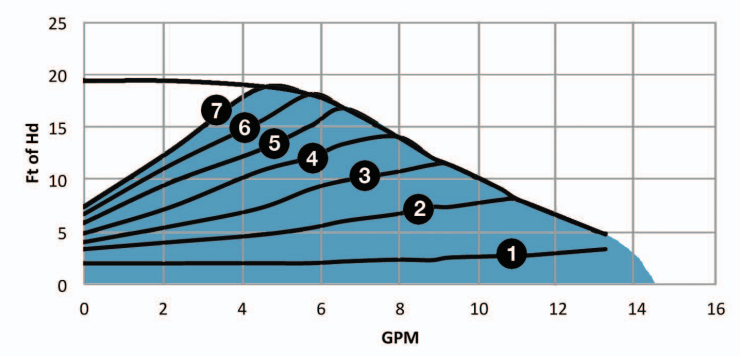
The Anti-Block Technology separates the main flow of the pumped media completely from the permanent magnetic parts. It is virtually impossible for the ecocirc auto or vario to block-up even in an old open system.

Technical Data

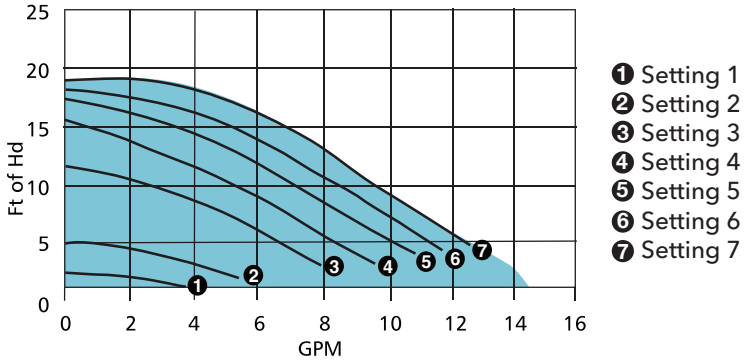
Motor design	**Electronically commutated shaft-less spherical motor with permanent magnet technology**
Maximum System Pressure:	**150 PSI (10 bar)**
Electrical Supply:	**115 Volt, 60 Hertz**
Suitable for the following liquids:	**water/glycol mixtures***
Temperature Range:	**40°F** to 203°F (4°C to 95°C)**
Power Consumption:	**5 – 60 Watt**
Protection:	**IP 44**
Insulation Class:	**F**

*** check hydraulic performance with more than 20% glycol**
****non-freezing**

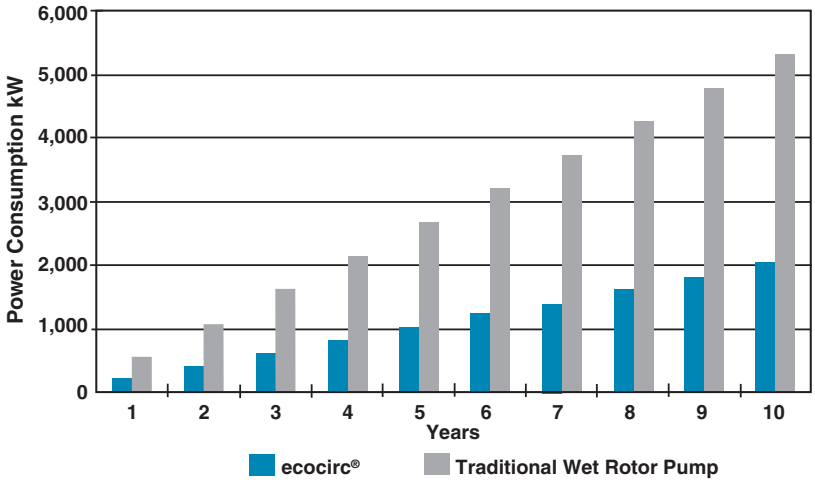
auto Pump Curves



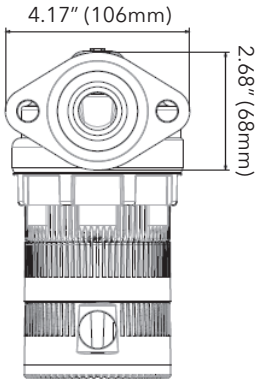
vario Pump Curves

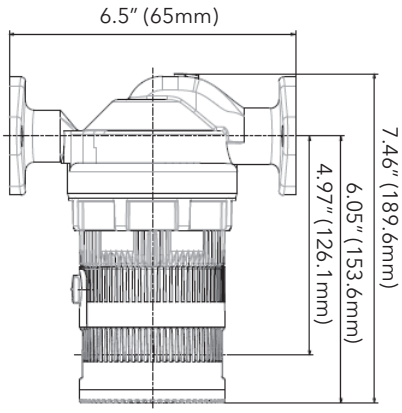


ecocirc Energy Analogy Chart



Dimensional Drawings





***Note**: Based off of total annual pump operating hours for temperature 65°F and below. Total operating hours are based on the New York City ASHRAE Bin Data.

Specifications

Part Number	Model	Control Mode	Shipping Weight
6050B2000	ecocirc 19-14 auto	auto – Proportional Pressure	9.25 lb
6050B2001	ecocirc 19-14 vario	vario – Constant Curve	9.25 lb

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