IWAKI

DDC
series

Electronically commutated spherical motor, 12 VDC, Centrifugal Pumps

- ECM - Electronically Commutated Motor
- Ultra Efficient
- Low Power Consumption
- Long Life
- Continuous Duty
- Variable Speed
- Small Footprint
- Very Quiet

Designed for OEM applications such as Thermal Management, Laser Cooling and Medical Equipment

The Laing DDC pump is an ideal 12 VDC solution for liquid cooling of medical equipment, lasers and personal body cooling. Due to its size and output, the Laing DDC can also be used in a large number of other applications.

The Laing DDC is an electronically commutated spherical motor pump, with an expected service life up to 50,000 hours .

The only moving part in a spherical motor pump is a spherically shaped rotor/impeller unit, which is seated on an ultra-hard, wear-resistant ceramic ball. The conventional shaft, shaft bearings and shaft seals have been eliminated, which reduces noise and extends the life of the pump.

The spherical motor design permits economical operation with comparatively high output. Supply voltage variation provides a simple means of controlling the speed of the DDC pump over a large output range. All parts in contact with the medium are 100% corrosion resistant. An optional tachometer output provides feedback to monitor the speed of the pump directly.


Threaded DDC Pump


Standard DDC Pump


Footed DDC Pump


Center Suction
DDC Pump

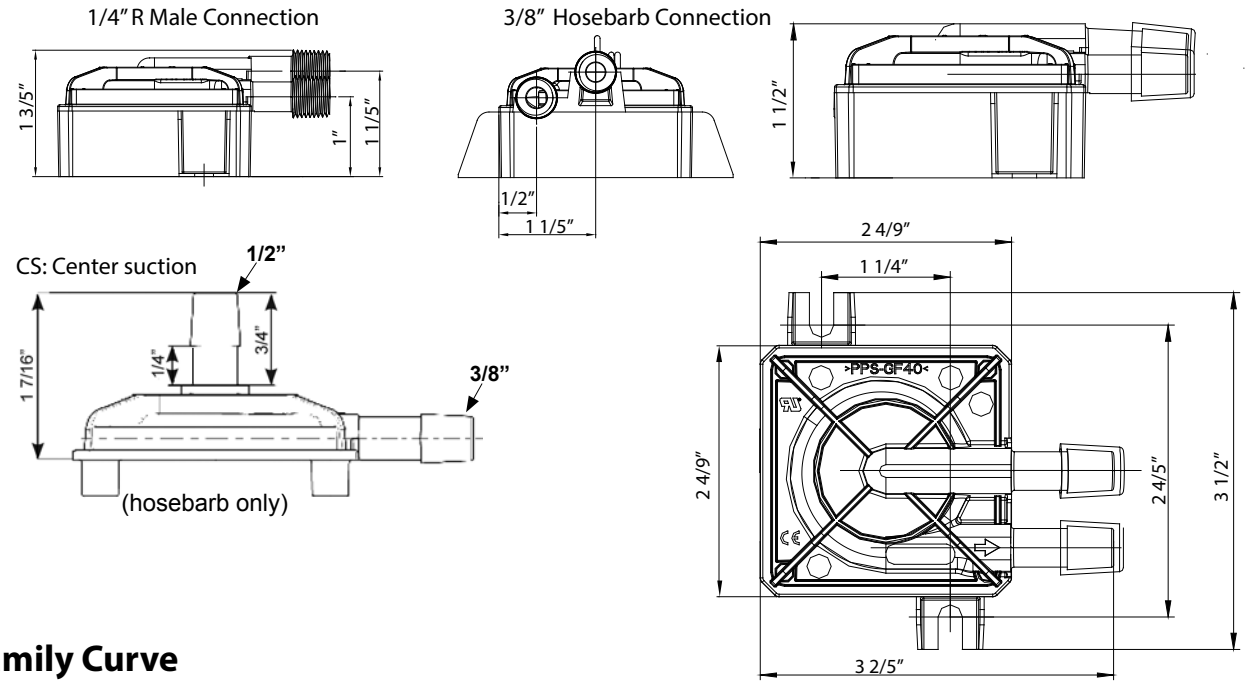
DDC series

Laing Thermotech
a xylem brand

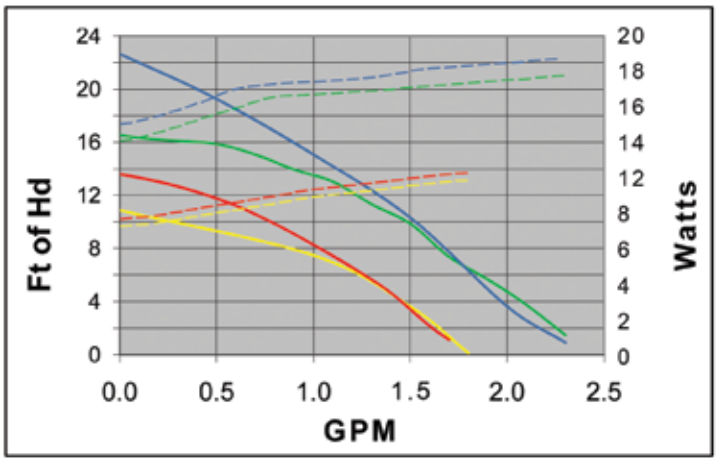
Model Code

DDC Series	T: Tach Output	P: Plug	MP: Mounting Feet Parallel	T: 1/4" PT
DDC 3.1: max. 12 Watt	Blank: No Tach Output	Black: No Plug	MC: Mounting Feet Cross	Blank: 3/8" Hosebarb
DDC 3.15: max. 12 Watt			Blank: No Mounting Feet	CS: Center suction
DDC 3.2: max. 18 Watt				
DDC 3.25: max. 20 Watt				

Dimensions



Family Curve



Note: The dashed lines represent power curves

DDC - 3.1
DDC - 3.15
DDC - 3.2
DDC - 3.25

Technical Data

Motor design:	Electronically commutated spherical motor
Rated voltage:	12 Volt DC
Power consumption:	DDC 3.1: max. 12 Watt, DDC 3.15: max. 12 Watt DDC 3.2: max. 18 Watt, DDC 3.25: max. 20 Watt
Voltage range:	8 to 13.2 Volts*
Acceptable media:	Water, Water/Glycol Mixtures** Other media on request
Max. system pressure:	21.75 PSI
Max. system temperature:	140° F
Wetted parts:	Rotor/impeller material: stainless steel grade 316Ti , PPS-GF40 is the pump housing material and the impeller, EPDM O-ring, aluminum oxide ceramic ball, carbon bearing cap
Electrical wire connection:	PA6.6 GF35

*Minimum startup Voltage 9 Volt

** Check pump performance for mixtures of 20% or more glycol. Please contact us regarding any other media requirements.

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