EMBRASS PEERLESS

ECLIPSE - S

ErP Compliant
Heating Circulating Pump

A Rated

ErP READY — APPLIES TO EUROPEAN DIRECTIVE FOR ENERGY RELATED PRODUCTS

P1

Installation and Operating Instructions

March 2025

Contents

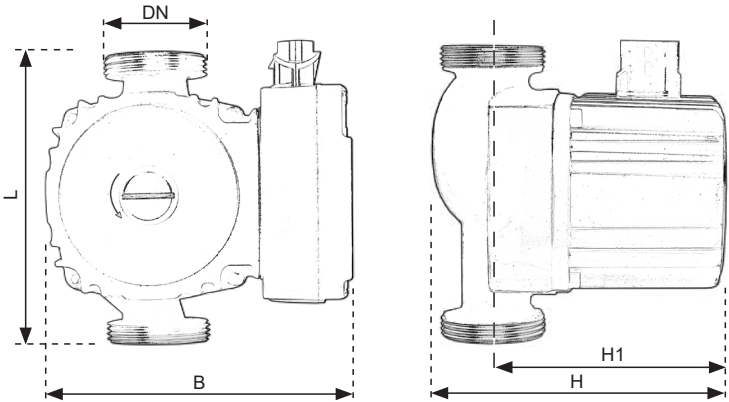
General information

- Please read before installing your Eclipse pump.
- Pump is factory set to 6 metre.
- The pump must be installed by a competent person qualified to carry out the installation and ensure any building regulations are fully complied with.
- The electrical supply must be isolated prior to installation or any maintenance works carried out.
- Avoid positioning the pump in areas where high humidity or poor ventilation can cause potential damage to the electrical components.
- The pump should be fitted with means of isolation either side of the unit.
- The heating system will need the appropriate amount of corrosion inhibitor to protect the internals of the pump, failure to do this will invalidate the warranty.
- Before switching the system on, prime the pump by opening the valve allowing water to enter the pump. The pump should never be run dry, failure to do this will invalidate the warranty.
- To prolong the life of the pump when not in use for periods of time or where frost damage might be an issue, drain the water from the pump, close both isolating points and turn off from the electrical supply.
- The pump should always be fitted out of the reach of children and never connected to the drinking water system.

About your low energy circulating pump

- Designed to circulate hot water around central heating systems at different designated flows manually set.
- Can be fitted where underfloor heating systems are installed.
- The pump incorporates a permanent magnetic motor with constant flow.

Dimensions



Model	Size (mm)				Gross Weight (kg)	Fittings
	H	H1	L	B		DN
Eclipse-S 490930	**130**	**100**	**130**	**120**	**3.5**	**G1.1/2”**

Operating parameters

The **Eclipse-S** pump is suitable for the following installations and environment.

- Ambient temperature 0°C to 40°C
- Water temperature +1°C to +110°C
- Maximum pressure 10 bar
- IP44 rated

In order to prevent condensation damage within the control box the water temperature in the pump must always be kept higher than the ambient temperature in the vicinity.

The heating system must be clean and protected with a non-corrosive inhibitor and free from any solid debris.

Installation

Ensure the pump is fitted in the vertical or horizontal position with enough room to use isolation points either side of the unit and access to make the required electrical connections.

Make sure a water tight seal has been made between the pump and isolation points using the gaskets provided.

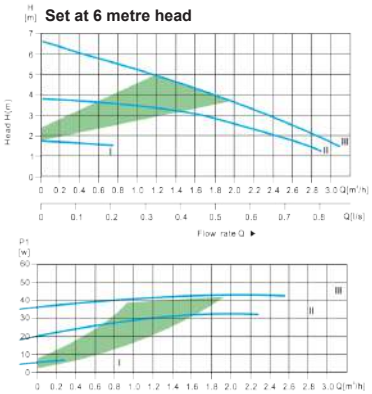
Pump Settings and performance

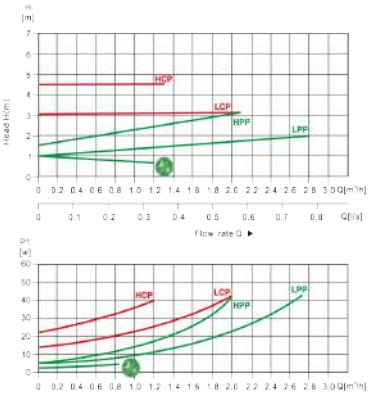
Setting		Function
III	Speed III	Maximum constant flow.
II	Speed II	Medium constant flow.
I	Speed I	Minimum constant flow.
ECO Setting		The pump automatically adjusts power and flow required.

Technical data

IP	IP44
EEI	<20
Noise	<43 Db(A)
PW	5w - 45w (6 metre)
IN	0.08A - 0.38A (6 metre)
Cable connector	Plug connector
Max head	6.3mtr
Flow	0.3 - 3m3/h (6 metre)
Working pressure	10bar
Mains connection	230V 50Hz
Ambient temperature	0°C to +40°C (+55°C in closed areas)
Insulation class	F
Liquid temperature	2°C to +95°C

Technical data





LCP=CP Lowest Constant Pressure Curve

HCP=CP Highest Constant Pressure Curve

LPP=PP1 Lowest Proportional Pressure Curve

HPP=PP2 Highest Proportional Pressure Curve

Fault	Control Panel	Cause	Solution
1. Pump does not run	(i) Power light off	a) Check wiring	Make sure all wires are correctly connected
		b) Check fuse in plug / board	Replace fuse or reset trip
		c) Defective pump	Replace fitting
	(ii) Power light on	a) insufficient electrical current	Check supply to the pump is within the specified range
		b) The pump is blocked	Remove the impurities
2. Noise in the system	(i) Power light on	a) Air lock	Vent entire system
		b) Incorrect header height setting	See manual to reset pump header height
		c) The flow is too high	Reduce the suction head
3. Noise in pump	(i) Power light on	a) Air in pump casing	Run pump normal, it may take several hours to correct
		b) Inlet pressure too low	Increase inlet pressure to the pump. Check all valves are in the fully opened position

Electrical work to be carried out by competent qualified licensed electricians in strict conformity to ruling national conditions and local regulations.

Notes

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