



PRODUCT DATA SHEET



High Efficiency Bronze Hot Water Recirculation Pump

Stock code: BRZPUMPHE



The BRZPUMPHE is an advanced, high-efficiency permanent magnet canned-motor pump designed for secondary hot water recirculation in domestic heating systems. This pump is equipped with a differential pressure controller, which allows the BRZPUMPHE to intelligently adapt its power consumption to the system's current demand when in automatic mode. This means it dynamically adjusts its power input to precisely meet the system's needs.

Alternatively, for users who prefer manual control, the BRZPUMPHE can be set to a constant speed setting. This setting provides a range between a minimum power consumption of 5 Watts and a maximum of 40 Watts, giving you flexibility in how you manage your secondary hot water recirculation.

Features:

- ERP Compliant
- Bronze pump body
- E.E.I. < 0.20
- Energy efficient
- Auto-adapts 5—40W
- Low noise level < 43dB@
- Dims: 130 x 130 x 128mm
- Connection: 1.5" G1 flange
- 130mm Across Ports
- Output: Max. 6m head
- Power: Auto-adjusting, 5—40 Watts
- Noise level: < 42 dB(A)
- Max Flow Rate: 3.0 m³/ hour (0.833 litres per second)

Power Supply Voltage	1 x 230V +6%/-10%, 50/60Hz, PE	
Motor Protection	The pump needs no external protection	
Degree of Protection	IP44	
Insulation Class	H	
Relative Humidity (RH)	Max. 95%	
System Load Bearing	1.0 MPa	
Suction Port Pressure	Liquid temperature	Minimum Inlet Pressure
	≤ 85°C	0.005 MPa
	≤ 90°C	0.028 MPa
	≤ 110°C	0.100 MPa
EMC Standard	EN61000-3-2 & EN61000-3-3 EN55014-1 & EN55014-2	
Sound Pressure Class	The sound pressure level of pump is lower than 42db	
Ambient Temperature	0 - +40°C	
Temperature Grade	TF110	
Surface Temperature	The maximum surface temperature is not higher than 125°C	
Liquid Temperature	+2 - +110°C	

To prevent condensation in the junction box and rotor, the temperature of pumping liquid of the motor pump must be always higher than ambient temperature.

Ambient Temperature (°C)	Liquid Temperature	
	Min. (°C)	Max. (°C)
0	2	110
10	10	110
20	20	110
30	30	110
35	35	110
40	40	110

For domestic hot water, it is suggested that water temperature should remain below 65°C to reduce scalding.



TFC GROUP

Bronze Recirculation Pump: BRZPUMPHE



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