

Polypipe UFHSSHPP

Heat Pump Pack



Overview

The Heat Pump Pack is a circulation group designed for connection onto an underfloor heating manifold, fed with water at the required flow rate and temperature directly (no mixing required at manifold).



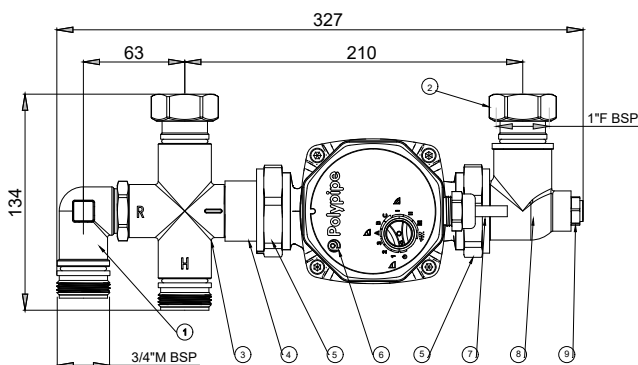
Features and Benefits

- Compact and space saving design, preassembled in the UK
- Fully reversible with left or right handing
- Class A ErP compliant Eco2 25/6m circulation pump with air venting feature as standard
- Self-sealing secondary side integral spinning nuts for fast manifold connections
- Integrated check valve for easy filling during commissioning
- Label tag with QR code to user manual
- 2 Year warranty as standard

Standard Assembly

- 210mm fixed centre distance between manifold bar connections
- Primary return elbow supplied and fitted
- Configured to suit top entry with left side installation
- 6m head Eco2 circulation pump

Dimensions



Materials

Component	Component	Grade		
1	3/4" Primary elbow	Fitting: Nickel plated brass (HPB58-3) O-Ring: Rubber (EPDM)		
	3/4" F x 1" F self-sealing spinning nut	Fitting: Nickel plated brass (CW617N) O-Ring: Rubber (EPDM)		
3	Double elbow	Nickel plated brass (HPB58-3)		
4	Spacer for 210mm manifold centre distance	Nickel plated brass (HPB58-3)		
5	Pump flange	Nickel plated brass (HPB58-3)		
6	Pump	Body: Cast iron (GG-20) Impeller: Reinforced plastic (PP-GF40) Shaft: Stainless steel (AISI 1.4122) Bearing: Carbon (W02/T)		
	7	Integral check valve	Body: Plastic (PA66) Spring: Stainless steel (AISI304) O-Ring: Rubber (EPDM)	
		8	Flanged elbow	
		9	Dry pocket	Pocket: Nickel plated brass (HPB58-3) O-Ring: Rubber (EPDM)
H	Flow from heat source			
	R	Return from manifold / flow to heat source		

Technical Details

Heat Pump Pack

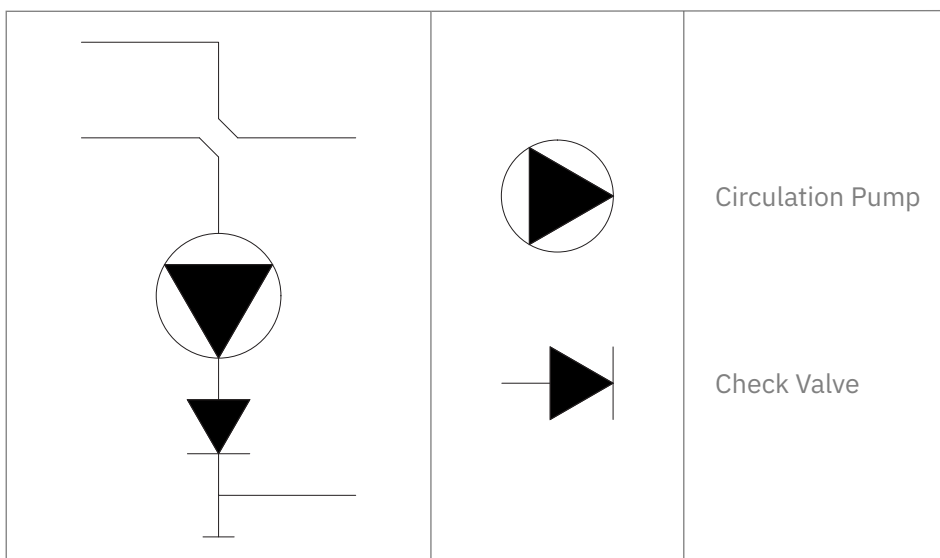
Assembly Specification

Medium	Heating water to BS 7593:2019
Max. percentage of glycol	< 50%
Max. working pressure	PN10
Max. differential pressure	1 bar
Min. recommended pressure	3 kPa
Working temperature range	0 - 80°C
Secondary side connections for manifold	1" F
Primary side TMV connections	1" M

Pump Specification

Model	eco2 25-6/130 TS
Type	Cylindrical ECM motor
Port to port length	130mm ±0.5mm
Connection voltage	1 230V +10%/-15%, 50/60Hz
Protection class	IP44
Recommended settings	UFH Constant differential pressure, $\Delta p-c$
	Radiators Variable differential pressure, $\Delta p-v$
To change control setting	Rotate control knob
Venting function (10 mins)	Rotate control knob to degassing symbol
Fault signals	See installation manual
Min. suction head at 50oC	0.5m
Motor energy efficiency index (EEI)	< 0.18
Power Consumption	Max 60W

Hydraulic Schematic

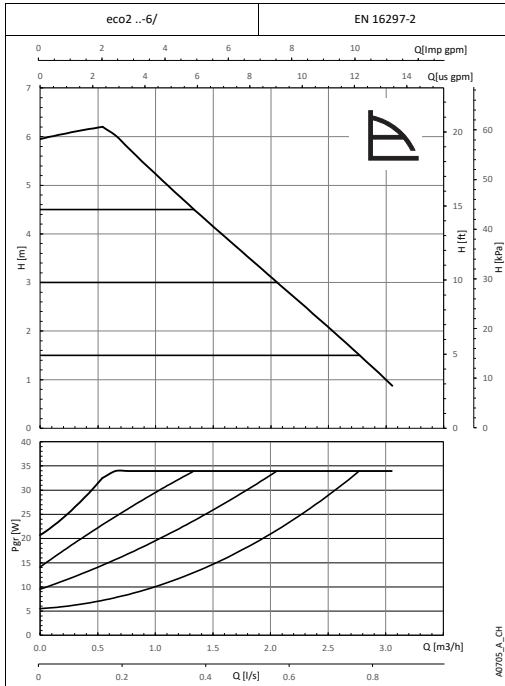


Technical Details

Heat Pump Pack



Pump Curves



Pressure Loss Graphs

Kv (m³/h)
6.64

