H4 Pump Control Set

Underfloor heating control group with double elbow fitting for heat pumps



Overview

The H4 Pump Control Set is designed for distribution of water used in secondary space heating circuits. Primarily for underfloor heating systems, the compact assembly features energy efficient ErP compliant circulation pump as standard.



Specification

Output: Up to 250sqm / 20kW Max temperature range: Max temperature range: 80°C Maximum supply pressure: 10 Bar

Optional extras

Primary isolation valves Safety temperature switch Manifold isolation valves Compression fittings

Connections

Primary connections: 3/4" BSPF Manifold connections: 1" BSPM

Product Information

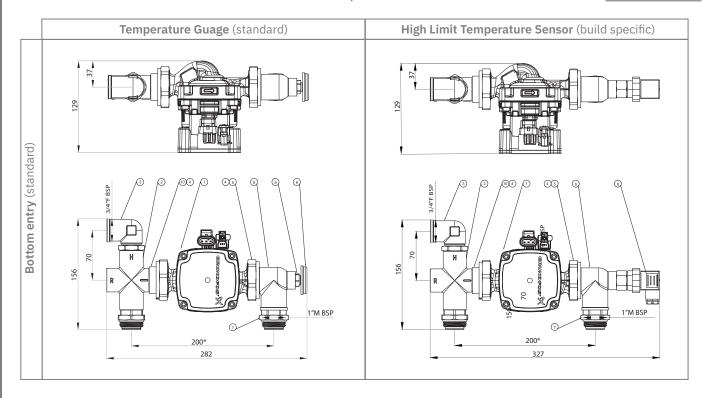
- · Compact and space saving design
- Most versatile range in the market
- Fully reversible (Left or Right sided manifold)
- · Side or bottom entry connections
- Assembled in the UK: pre-tested, packaged and ready for instant installation
- Class A ErP compliant circulation pump with air venting and locking features as standard
- In-built 4-way deflector plate
- Self-sealing secondary side integral spinning nuts for fast manifold connections
- Integrated check valve for easy filling during commissioning
- 2 year warranty (Extended to 5 years with WITA or Taconova pump)



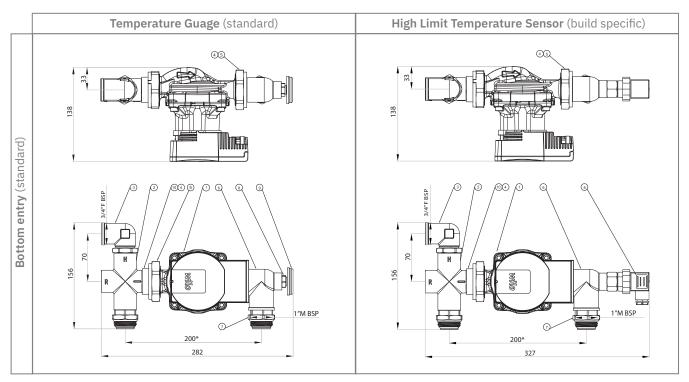
Dimensions



Dimensions - Grundfos Circulation Pump



Dimensions - Wilo Circulation Pump



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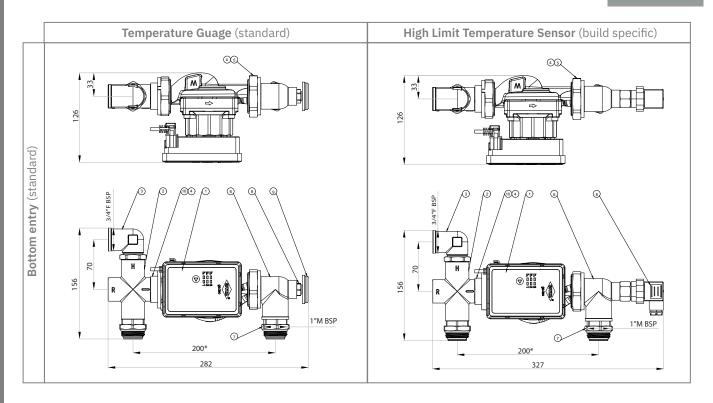
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*Manifold bar centre distance of 200mm shown but order specific.

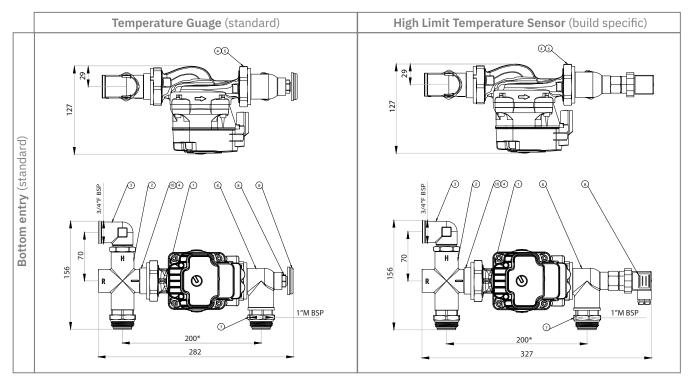
Dimensions



Dimensions - WITA Circulation Pump



Dimensions - Taconova Circulation Pump



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Materials

Comp	oonent		Material	Grade		
		Body	Cast iron	GG-20		
1 Typic	Tunical numan (avananta Mila)	Impeller	Reinforced plastic	PP-GF40		
	Typical pump (example Wilo)	Shaft	Stainless steel	AISI 1.4122		
		Bearing	Carbon	W02/T		
2	Double elbow		Nickel plated brass	HPB58-3		
2	3 ¾" Primary elbow	Body	Nickel plated brass	HPB58-3		
3		O-Ring	Rubber	EPDM		
4	Washer		Rubber	EPDM		
5	1 ½" rapid connection nut	Body	Nickel plated brass	HPB58-3		
	1 72 Tapid Connection nut	O-Ring	Rubber	EPDM		
	Flanged elbow		Nickel plated brass	HPB58-3		
6	with integral check valve	Body	Plastic	PA66		
		Spring	Stainless steel	AISI304		
		O-Ring	Rubber	EPDM		
7	3/4"F x 1" M self-sealing spinning nut	Body	Nickel plated brass	HPB58-3		
,	74 FX1 M Sett-Seating Spinning nut	O-Ring	Rubber	EPDM		
8	3/8" pocket		Nickel plated brass	HPB58-3		
9	Tomporature gauge 0, 90% coale	Body	Various			
9	Temperature gauge, 0-80°C scale	Gauge cover	Cardboard			
Н	Flow from heat source					
R	Return from manifold / flow to heat so	-				

Technical

Assembly Specification	
Medium	Heating water to VDI 2035, glycol solutions
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"M
Primary side TMV connections	³⁄4"F

Assembly Options

Assembly Options			
Handing	Pack can be handed left or right, with bottom or top pipe entry		
Manifold bar spacing	Available from 200mm to 225mm, straight or angled		
Pump	Full range of ErP compliant options from all market leaders		
Elbow	Optional on primary return		
Spinning Nut	Different options to suit manifolds on market		
Pocket	Available with temperature gauge and/or high limit thermostat		
Fittings	Various options available from male to female, compression to union		
Branded	OEM product with branding options available		

Product Codes



Due to the number of possible variations of pre-assembled H4 Pump Packs available, a full list of product codes is available on request. Information on how assembly build codes are generated is below for reference.

	Н-	4 Order	Codes							
Pack		Н4								
	Left side, bottom entry		-							
	Left side, top entry		LT							
Handing	Right side, bottom entry		RS							
	Right side, top entry		RB						FULL AS	FULL ASSEMBLY
	200mm			0		Н	4			
	205mm			1				Δ		
	210mm			2				_		
Manifold Bars c/c	225mm			3			cription: Grundfos		ump pack	ump pack, LB/200m
6,6	200mm O/S			4						
	205mm O/S			5						
	210mm O/S			6						
	Excluded				0					
	Wilo 7m				1					
	Grundfos				2					
Pump	Stuart Turner				3					
	Wita				4					
	Grundfos Trade				5					
	Taconova 8.5m				6					
	Excluded					0				
Elbow	Included					1				
	Exclude						0			
Spinning Nuts	1" x M (S/S)						1			
(secondary)	1" x F (S/S)						2			
	1" x F (glued)						3			
	Blank pocket							())
	Temperature gauge							1	L	L
Pocket	H/L thermostat							:	2	2
	Temp gauge + H/L stat							3	3	3
	Excluded									0
	1"F fittings (glued)									1
	1"F fittings (S/S)									2
Fittings	1"F S/N fittings (S/S)									3
(primary)	1"M fittings (glued)									4
	1"M fittings (S/S)									5
	22mm fittings (glued)									6
	22mm ball valve kit									7
	No									
Branded	Yes									



Option	Grundfos UPM3	Wilo Para	WITA go-tec H	Taconova TF3 Duo Hybrid
Head (m)*	7m	6m	7m	8.5m
Heating & cooling?	×	✓	✓	×
Anti-blocking	✓	✓	✓	✓
Venting program	×	✓	✓	✓
Key lock	✓	✓	✓	×
PWM option	✓	✓	✓	✓
Temperature range	2 – 110°C	-10 − 95°C	-10 - 110°C	2 – 110°C
Pressure rating	PN10	PN10	PN10	PN10
IP rating	IP44	IPX4D (IP44)	IP44	IP44
EEI	GOE 6m < 0.20	GOE 6m < 0.20	GOE 7m < 0.19	GOE 8.5m < 0.20
Warranty	2 years	18 months	5 years	5 years

^{*}Standard option stated. Other options are available on request. Pump curves can be found in installation and operations manuals (IOMs).

Spinning Nut Options



Pocket Options

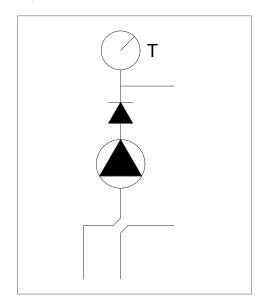


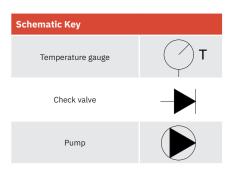


Fitting Options (primary side)

0	1	2	3
-			
Standard option No fittings supplied, left for installer on site.	1" female fittings glued to primary side of pack.	1" female self-sealing fittings fitted to pack.	1" female self-sealing fittings with union fitted to pack.
4	5	6	7
1"M fittings glued to primary side TMV connections.	1"M self-sealing fittings fitted to primary side TMV connections.	22mm compression fittings glued to primary side TMV connections.	Self-sealing ball valve to pack, with 22mm glued compression fittings.

Hydraulic Schematic







Pressure Loss Graphs

Kv (m³/h)

