

DESCRIPTION

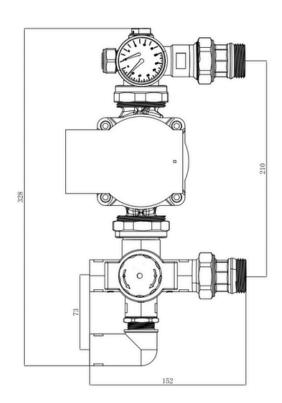
Designed to work with manifolds of all types, on 210mm centres. The thermostatic blending valve is the core of the control system. It is used with flow and return manifolds to control the flow temperature of water to the underfloor heating pipework. It mixes the hot water from the boiler and supplies the water back to the UFH pipe at the correct temperature.

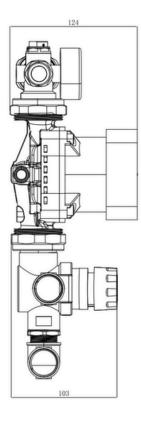
The mixing valve operates at a lower temperature than the radiator system, between 35°C and 60°C depending on the floor construction. The water supply temperature can be adjusted according to the structure of the floor.



TECHNICAL DATA								
Maximum static pressure	10 bar							
Maximum temperature	85°C							
Adjustable control range	35°C to 60°C							
Factory pre-set	45°C (Control knob is in the adjustable position)							

DIMENSIONS





KEY DETAILS

- 5 Year Warranty.
- Bolt on thermostatic blending valve providing a quick and simple installation.
- Works with all manifold types.
- Adjustable water temperature according to floor structure.

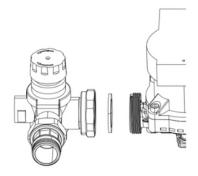




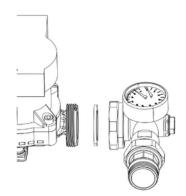


INSTALLATION

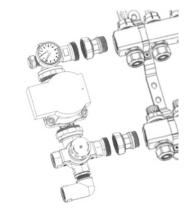
- Firmly fix the distribution manifolds to the wall leaving enough room beside the manifold to fit the control pack (see dimensions on Page 1). Before beginning the installation of the Thermomix Underfloor Heating Control Pack, identify all of the components in the pack.
- 1.1 Install the flat gasket into the connecting nut of the water-mixing system component and then match the connecting nut with the external thread of the water pump and tighten it.
 Ensure that the mixing system components, flat gaskets and pumps are in a seal fit state (note the direction arrow on the pump body).



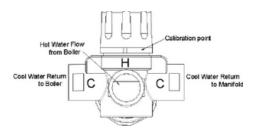
 1.2 Install the gasket into the connecting nut of the water supply system component, and then match the connecting nut with the external thread of the water pump and tighten it. Ensure that water supply system components, gaskets and pumps are in sealed fit.



• 1.3 Swivel out the male unions of the mixing system and supply system, rotate its 1" male threads into the main bar or 1" female threads of other control unit, use the cone ring or other sealing winding belt of the tubes to tighten and seal, then re-rotate the free nut of the union into the mixing system and supply system correctly to avoiding leaking.



NOTE: If the primary circuit serving the underfloor heating is not fitted with an automatic bypass valve.it is recommended that one is installed across the flow and return pipes to improve system efficiency.



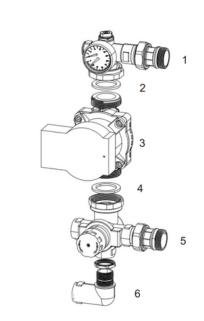




COMPONENTS

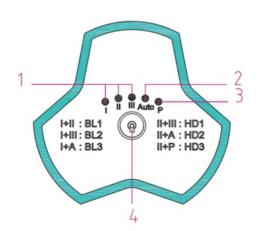
PLEASE CHECK CONTENTS OF PACK BEFORE BEGINNING INSTALLATION.

- 1. Water supply system components (1½"F*1 M)
- 2. Flat gasket (45*33*3)
- 3. Bastion Pump(6/7.5 Meter)
- 4. Flat gasket (45*33*3)
- 5. Mixed water system components (1½"F x 1"M) x 3/4"F)
- 6. Connection elbow (3/4"F*3/4M)



PUMP CONTROL MODES AND FUNCTIONS

- 1. The pump I, II, III gear display.
- 2. The pump automatic gearshift display (AUTO).
- 3. The pump PWM gear display.
- 4. The pump gear shifting button.



Special Note:

- 1. If I and II display at the same time, means BL1. If I and III display at the same time, means BL2. If I and Auto display at the same time means BI3.
- 2. If II and II display at the same time, means HD1. If II and Auto display at the same time.

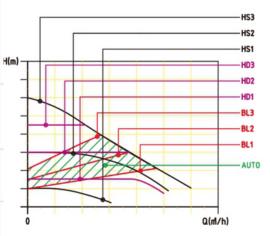
means HD2. If II and P display at the same time means HD3.





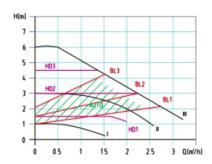
RELATIONSHIP BETWEEN PUMP SETTINGS AND ITS PERFORMANCE

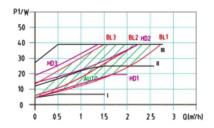
SETTING	PUMP CHARACTERISTICS CURVE	FUNCTIONS						
AUTO FACTORY SETTINGS	Highest to lowest proportional pressure curve	"Auto adaptation" function will automatically control the pump performance within the specified range. Adjust the performance of the pump according to the size of system; Adjust the performance of the pump according to the load change of a period of time. In the "Auto adaptation" mode, the pump is set to proportional pressure control mode.						
BL (1-3)	Proportional Pressure curve	The pump working point will move up and down on the proportional pressure curve according to the flow needs of system when the flow demand reduces, the pump pressure supply will drop while when the flow demand increase sit will rise.						
HD (1-3) Constant pressure curve		The pump working point will move back and forth on the constant pressure curve according to the flow needs of system. The pressure supply of pump remains constant, having nothing to do with the flow demand.						
HS (1-3)	Constant speed curve	Run on the constant curve at a constant speed. In speed HS (1-3) mode, the pump is set to run on the maximum curve under all working conditions. Set the pump to HS3 mode in a short time, then gas in the pump will be vented quickly.						



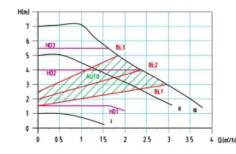
PERFORMANCE CURVE

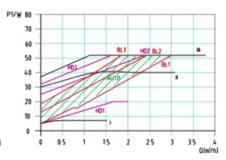
6m Head





7.5m Head











TECHNICAL DATA

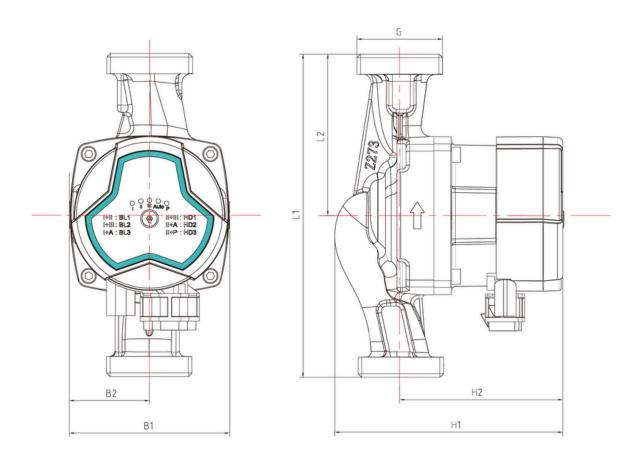
220~240V, 50/60Hz							
Pump does not need external protection							
IP44							
Н							
Max 95%							
1.0 Mpa							
LIQUID TEMPERATURE	MINIMUM INLET PRESSURE						
≤ +75°C	0.005 Mpa						
≤ +90°C	0.028 MPa						
<+110°C	0.100 MPa						
EN61000-6-1 and EN61000-6-3							
Lower than 42dB(A)							
0~+70°C							
TF110							
Max. surface temperature should not exceed +125°C							
+2~+110°C							
	IP44 H Max 95% 1.0 Mpa LIQUID TEMPERATURE ≤ +75°C ≤ +90°C ≤+110°C EN61000-6-1 and EN61000 Lower than 42dB(A) 0~+70°C TF110 Max. surface temperature						

TO PREVENT THE CONTROL BOX AND STATOR FROM CONDENSATING WATER, THE TEMPERATURE OF THE PUMP CONVEYING LIQUID MUST ALWAYS BE HIGHER THAN THE ABIENT TEMPERATURE

AMBIENT TEMPERATURE (°C)	LIQUID TEMPERATURE						
ANIBIENT TEMPERATURE (C)	MIN. (°C)	MAX. (°C)					
0	2	110					
10	10	110					
20	20	110 110					
30	30						
35	35	90					
40	40	70					
In domestic hot water, it is recommended to keep the temperature of waterbelow 65°C							



INSTALLATION DIMENTIONS



- [POWER		MAX FLOW	MAX HEAD	AMPS	V/Hz	MATERIAL OF PUMP BODY				DIMENTION (mm)						
	(w)	MODEL	(m³/h	(m)	A	220-240V 50/60Hz	CAST IRON	PLASTIC	COPPER	STAINLESS STEEL	L1	L2	B1	B2	H1	H2	G
Ī	39	6m head	3.2	-	0.35	•	•				65	130	45	90	90	127	11/2"
- [39	omneau	3.2	0	0.55	•	•		•	•	90	180	45	90	90	127	11/2
Ι	60	7.5m head	3.4	7.5	0.5	•	•				65	130	45	90	90	127	11/2"
	60	7.5m nead	5.4	3.4 /.5	0.5	•	•		•	•	90	180	45	90	90	127	11/2

