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DATA SHEET BIO MIX-BP G 1F Load Unit





Main Features	
Application	BIO MIX-BP G 1F insulated load unit is used to connect a heating system with a hydronic fireplace or a solid-fuel boiler and a thermal store. Water for the heating system is mixed in a 3-way mixing valve to OTC temperature, the temperature of return water to the boiler is kept above the flue condensation temperature through a load valve as a boiler protection against low-temperature corrosion. Excess boiler output is stored in a thermal store, from where it can be used in the heating system if necessary.
	The Load Unit includes:
Description	 two Grundfos UPM3 Flex AS 25-75 circulation pumps (with the possibility of control by a PWM signal or by selecting a pump performance curve), TSV3BM load valve with automatic bypass balancing, protecting a boiler against low-temperature corrosion by keeping the min. temperature of return water to a boiler above the flue condensation temperature, three-way mixing valve to maintain the required temperature in the heating circuit, two ball valves with drain valve for shutting off and draining the heating system, check valve integrated in the ball valve body located at the outlet from the heating system, two ball valves and to shut off the boiler circuit, two ball valves permitting to shut off the thermal store circuit (included in supply), two drain valves to drain the load unit, control key for ball valves, four thermometers, outlets to connect a thermal store or a combination one, and alternative outlets to connect optional accessories.
Working fluid	Water, antifreeze heat-transfer fluid for heating systems.
Installation	Vertically on a wall using the installation kit.
Connections	2 x G 1" F to a heating system 2 x G 1" F to a boiler circuit 2 x G 1" F to a thermal store 2 x G 1/2" F alternative outlets to connect optional accessories (if you do not wish to use them, they can be plugged with the enclosed plugs)
Max. boiler output at flowrate of 1,7 m³/h	40 kW by Δt 20 °C/20 kW by Δt 10 °C
Max. heating system output at flowrate of 1,7 m ³ /h	40 kW by Δt 20 °C/20 kW by Δt 10 °C
Codes	17553 – opening temperature 55 °C 21257 – opening temperature 65 °C

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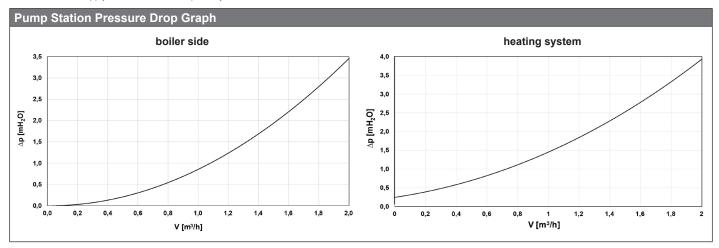


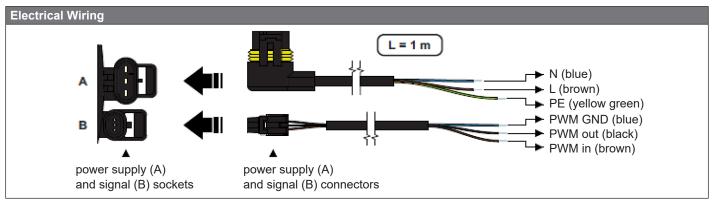
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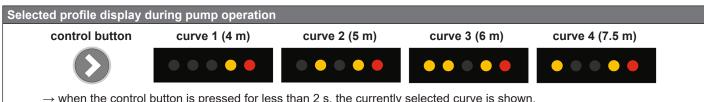
Data for BIO MIX-BP G 1F Load Ur	nit
Fluid working temperature	5–95 °C
Max. working pressure	6 bar
Min. working pressure	0.5 bar
Ambient temperature	5–40 °C
Max. relative humidity	80 %, non condensing
Power supply	230 V, 50 Hz from external controller
Max. load unit power input	120 W
IP rating	IP 20
Insulation material	EPP RG 60 g/l
Overall dimensions (L x W x D)	640 x 250 x 350 mm
Total weight	16.5 kg

Accessories*		Code
Magnet Filterball 1"	MAGNET FILTERBALL 1" Ball valve with filter and magnet	17405

^{*} Not included in supply, shall be ordered separately!







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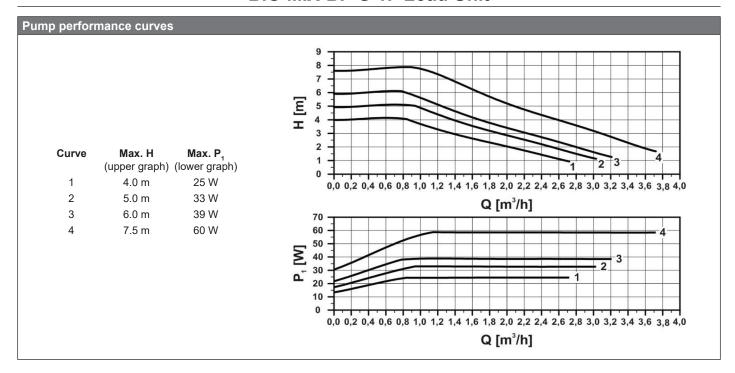
- → when the control button is pressed for less than 2 s, the currently selected curve is shown,
- → with no PWM signal the pump runs at max. speed according to the selected curve,
- → with PWM signal the pump speed changes with the signal value up to the maximum of the selected curve.

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