

DATA SHEET

BIO MIX-BP G75 1F Load Unit

BIO MIX-BP G75 1F	Main Features	
	Description	 BIO MIX-BP G75 1F load unit containing a complete connecting piping for the installation of a heating system with a solid-fuel boiler and a thermal store(s). The Load Unit involves: Two Grundfos UPM3 Flex AS 25-75 circulation pumps that can be controlled either by a PWM signal or by selecting a 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, the actuator of the mixing valve is not included in supply. Two ball valves and two drain valves for shutting off and draining the heating system. Check valve located downstream from the ball valve on the return line from the heating system. Two ball valves to connect a boiler. Automatic air vent valve on the bypass to the load valve. Control key for ball valves, located inside the insulation. Four thermometers. Two drain mini-valves to drain water from the Load Unit. Outlets to connect optional accessories (e.g. a pressure switch).
Enclosed		Two DN 20 ball valves to connect a hot water storage tank.Pt1000 outdoor temperature sensor to be installed on a North facing wall.
	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 for heating system 2 x G 1" F for boiler 2 x G 1" F for thermal store 2 x G 1/2" F outlets to connect optional accessories (plugged in production)
	Code	17553 – opening temperature 55 °C 21257 – opening temperature 65 °C 21261 – opening temperature 70 °C
Technical Data		
Fluid working temperature		5–95 °C

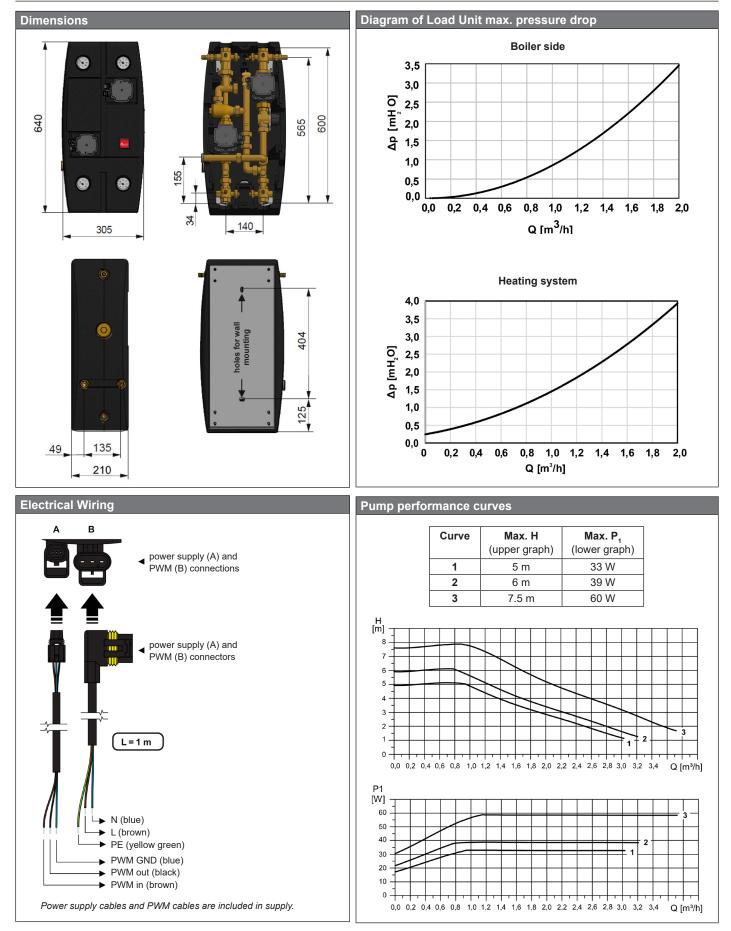
Fluid working temperature	5–95 °C	
Max. working pressure	6 bar	
Min. working pressure	0.5 bar	
Ambient temperature	5–40 °C	
Max. relative humidity	80%, non condensing	
	55 °C – code 17553	
Min. return water temperature to boiler from load valve	65 °C – code 21257	
	70 °C – code 21261	
Max. boiler output at flow of 1.7 m ³ /h	40 kW at ∆t 20 °C / 20 kW at ∆t 10 °C	
Max. heating system output at flow of 1.7 m ³ /h	40 kW at ∆t 20 °C / 20 kW at ∆t 10 °C	
Insulation material	EPP RG 60 g/l	
Overall dimensions (H x W x D)	640 x 305 x 210 mm	
Total empty weight	17.0 kg	
Electric Data		
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Electric Data		
Pump power supply	230 V, 50 Hz	
IP rating Load Unit	IP 20	
Load Unit max. power input	120 W	



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