

## Data sheet

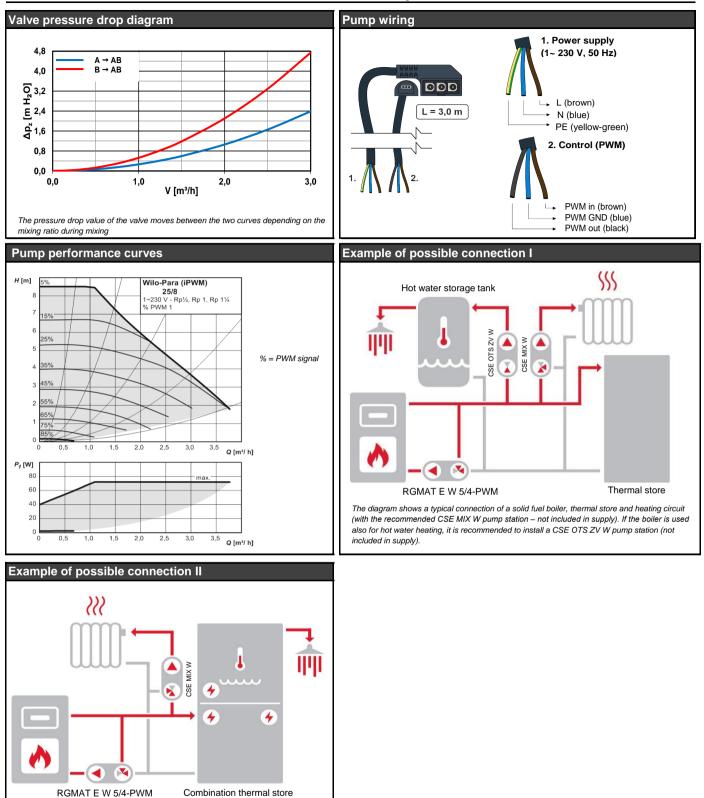
## **RGMAT E W-PWM Pump Station**

	Main Features	
	Description	This Load Unit is intended for systems with solid-fuel boilers and fireplaces. The Load Valve integrated in the Load Unit keeps the min. incoming temperature to a boiler/fireplace above the flue gas condensation temperatures, which prevents low- temperature corrosion of the boiler combustion chamber. This way the Load Unit contributes to a significant reduction in tarring and boiler fouling, to an increase in the efficiency of fuel combustion and to extension of the boiler service life. The Load Unit consists of: • Wilo PARA 25/8 iPWM1 pump • pipe fittings w. shut-off ball valve • TSV3B Load Valve with automatic bypass balancing • thermometer • insulation
	Working fluid	water; water/glycol mixture (max. 1:1) or water-glycerine mixture
	Flow rate measurement	(max. 2:1) the current flow rate is sent by the pump electronically to the external controller; the controller must be equipped with an iPWM read input and a flow rate calculation function.
	Installation	on return piping, min. dist. of the pipe axis from a wall 100 mm
Codes		boiler output
18131 for valve opening temperature 65 °C		max. 31 kW
18133 for valve opening temperature 55 °C		max. 44 kW
Technical data		
Fluid working temperature		5 – 95 °C
Max. working pressure		6 bar
Min. working pressure		0,5 bar
Ambient working temperature		5-40 °C
Max. relative humidity Control Range of the Load Valve		80%, non condensing opening temperature + 5 °C
Load Valve Kvs (direction A ►AB)		$6,2 \text{ m}^3/\text{h}$
Load Valve Kvs (direction A ►AB)		4,4 m³/h
Max. pump speed		4300 rpm
Pump speed control		frequency converter
Pump motor protection		integrated
Overall dimensions		305 x 170 x 135 mm
Total weight		3,3 kg
Connections		3 x G 1" F
Electric Data		
Power supply		230 V, 50 Hz
Power input (min./max.)		2/75 W
Current (min./max)		0,03/0,66 A
IP rating		IPX4D
Energy Efficiency Index		≤ 0,21 by EN 16 297/3
Materials		
Insulation		EPP RG 60 g/l
Load Valve and fittings		brass
Thermostatic element and plug seal		EPDM
Load Valve cone seal		NBR



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supply).

The diagram shows a typical connection of a solid fuel boiler, combination thermal store and heating circuit (with the recommended CSE MIX W pump station – not included in