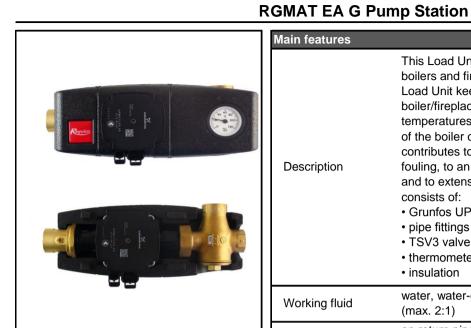


## **Data sheet**

## Data Sileet

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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 lowtemperature 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:  • Grunfos UPM3 FLEX AS Pump  • pipe fittings w. shut-off ball valve  • TSV3 valve (with manual by-pass balancing)  • thermometer  • insulation
Working fluid	water, water-glycol mix (max. 1:1) or water-glycerine mix (max. 2:1)
Installation	on return pipe, min. pipe centre distance from wall = 100 mm

Code	boiler output*
16383 for 65 °C valve opening temperature	max. 25 kW
16384 for 72 °C valve opening temperature	max. 25 kW

\* at  $\Delta T$  20 K and balancing valve fully open

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	80 % non condensing	
Control Range of the Load Valve	opening temperature + 5 °C	
Load Valve Kvs (direction A ►AB)	6,2 m³/hod	
Load Valve Kvs (direction B ►AB)	10,1 m³/hod	
Max. pump speed	5766 rpm	
Pump motor protection	not needed	
Overall dimensions	325 x 140 x 220 mm	
Total weight	3,25 kg	

Electric data	
Power supply	230 V, 50 Hz
Power input (min./max.)	2/52 W
Current (min./max)	0,04/0,50 A
IP rating	IP44
Energy efficiency index	≤ 0.20 per 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	

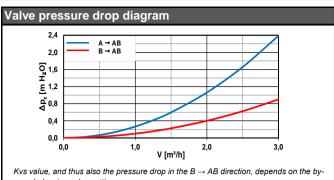


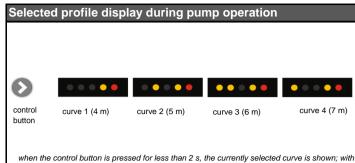
## **Data sheet**

## **RGMAT EA G Pump Station**

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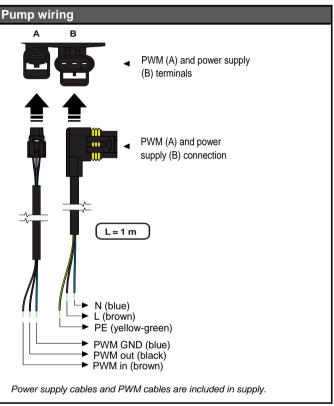
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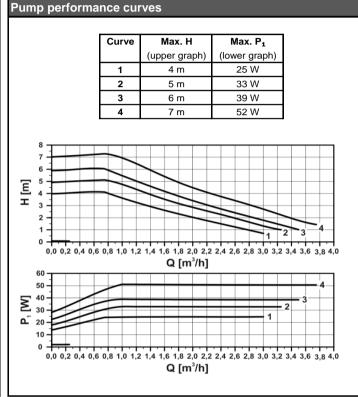


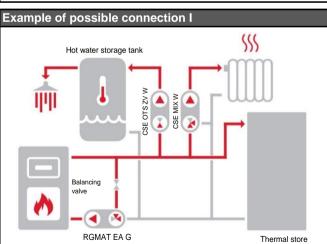


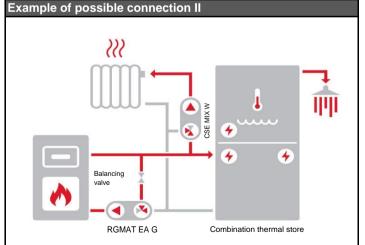
pass balancing valve settings.

PWM signal the pump speed changes with the signal value up to the maximum of the selected curve; with no PWM signal the pump runs according to the selected curve









The diagram shows a typical connection of a solid fuel boiler, thermal store and heating circuit (with the recommended CSE MIX W pump station - not included in supply). If the boiler is used also for hot water heating, it is recommended to install a CSE OTS ZV W pump station (not included in supply). A balancing valve shall be installed at the B inlet into the RGMAT EA G pump station.

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 supply). A balancing valve shall be installed at the B inlet into the RGMAT EA G pump station.

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