

Data sheet

v1.7_12/2020

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RGMAT E G 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 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 • TSV3B Load Valve with automatic bypass 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	
14925 for 45 °C valve opening temperature	max. 48 kW	
15910 for 50 °C valve opening temperature	max. 44 kW	
14926 for 55 °C valve opening temperature	max. 37 kW	
15911 for 60 °C valve opening temperature	max. 33 kW	
14927 for 65 °C valve opening temperature	max. 27 kW	
15912 for 70 °C valve opening temperature	max. 23 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	80 % non condensing	
Control Range of the Load Valve	opening temperature + 5 °C	
Load Valve Kvs (direction A ▶AB)	6,2 m³/h	
Load Valve Kvs (direction B ►AB)	4,4 m³/h	
Max. pump speed	5766 rpm	
Pump motor protection	not needed	
Overall dimensions	325 x 140 x 220 mm	
Total weight	3,25 kg	

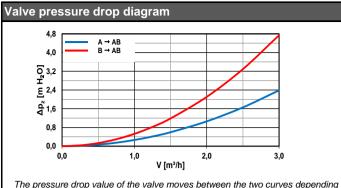
Electric data	
Power supply	230 V, 50 Hz
Power input (min./max.)	2/52 W
Current (min./max)	0,04/0,50 A
IP rating	IP44
Energy efficiency index	≤ 0.20 per EN 16 297/3

Materials				
Insulation	EPP RG 60 g/l			
Load Valve and fittings	brass			
Thermostatic element and plug seal	EPDM			
Load Valve cone seal	NBR			

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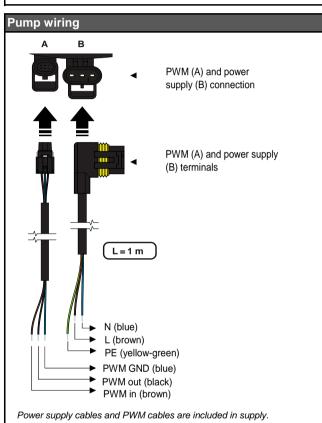
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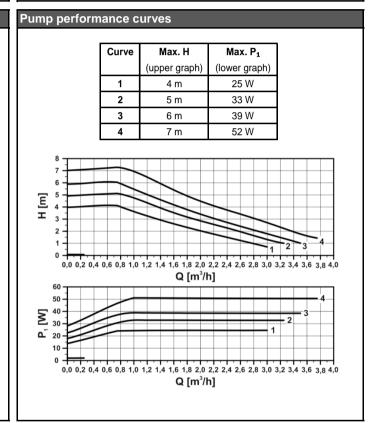
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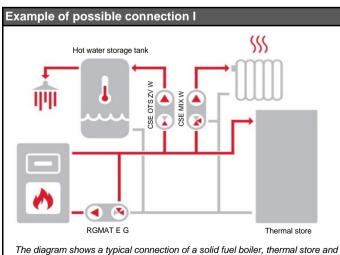


The pressure drop value of the valve moves between the two curves depending on the mixing ratio during mixing

Selected profile display during pump operation curve 2 (5 m) curve 1 (4 m) control curve 3 (6 m) curve 4 (7 m) when the control button is pressed for less than 2 s, the currently selected curve is shown; with 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

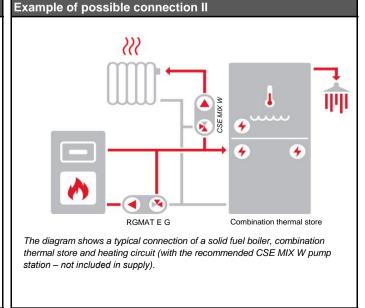






heating circuit (with the recommended CSE MIX W pump station - not included

in supply). If the boiler is used also for hot water heating, it is recommended to



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install a CSE OTS ZV W pump station (not included in supply).

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