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DATA SHEET

RGMAT E G75 5/4F KK Load Unit



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 is completed with a set of three ball valves with union nut to facilitate repair or removing individual components without draining the system. The Load Unit consists of: • UPM3 FLEX AS Pump • TSV5B 6/4Mx5/4F Load Valve with aut. bypass balancing • 3 ball valves with union nut • thermometer • insulation
water; water/glycol mixture (max. 1:1) or water-glycerine mixture (max. 2:1)
on return piping, min. distance of the pipe axis from a wall is 100

Codes	boiler output	
18985 for TSV3 valve opening temperature 55 °C	max. 57 kW	
18986 for TSV3 valve opening temperature 65 °C	max. 41 kW	

 mm

Installation

Technical Data		
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	
Insulation material	EPP RG 60 g/l	
Control range of the load valve	opening temperature + 5 °C	
Load valve Kvs (A ►AB direction)	7 m³/h	
Load valve Kvs (B ►AB direction)	6 m³/h	
Max. pump speed	5991 rpm	
Pump speed control	frequency converter	
Pump motor protection	integrated	
Overall dimensions	390 x 210 x 165 mm	
Total weight	4.4 kg	
Connections	3 x G 5/4" F	

Electric Data	
Power supply	230 V, 50 Hz
Power input (min./max.)	2/60 W
Current (min./max)	0.04/0.58 A
Energy Efficiency Index	≤ 0,20 by EN 16 297/3
IP rating	IPX4D

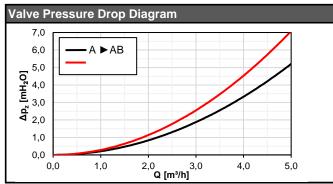
Tel.: +420 241 765 191

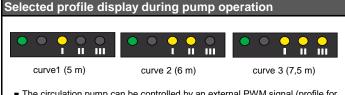
Fax: +420 241 763 976



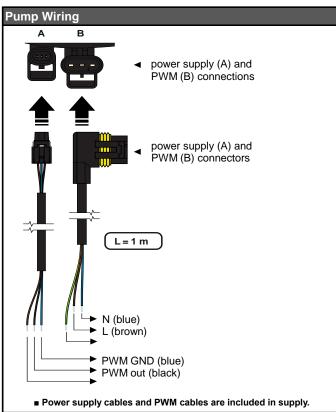
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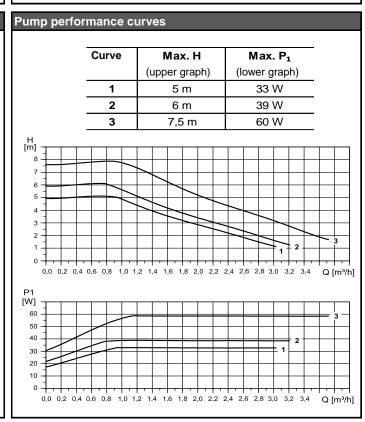
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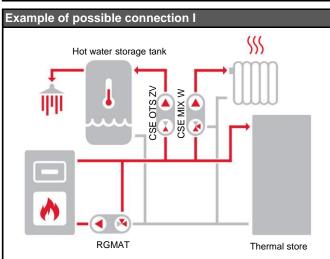




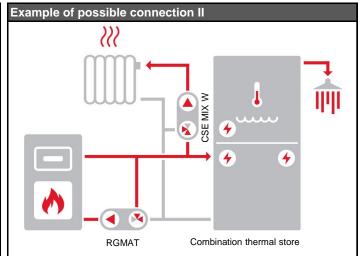
- The circulation pump can be controlled by an external PWM signal (profile for use in heating systems) or without a PWM signal by selecting a pump performance curve (see the graph below)
- with no PWM signal the pump runs at max. speed according to the selected
- with PWM signal the pump speed changes with the signal value up to the maximum of 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).



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