

DATA SHEET

RGMAT E W8 5/4 F KK Load Unit



Main Features	
Description	This load unit is intended for use in systems with solid-fuel boilers and fireplaces. The load valve integrated in the load unit ensures keeping the min. inlet temperature to the boiler (fire) above the flue condensing temperature, thus preventing a low-temperature corrosion of the boiler combustion chamber. The load unit thus contributes to a significant limitation of tarring and fouling of the boiler, to an increased efficiency in fuel combustion and to extending the service life of the boiler. The load unit is equipped with a set of three G 6/4" ball valves with union nuts, making repairs/disassembling easier, without the need to drain the system. The Load Unit consists of: • Wilo PARA 25/8 SC Pump, • TSV5BMF 6/4M x 5/4F Load Valve w. outer threads and automatic bypass balancing, • three G 6/4" ball valves with union nut, • thermometer, • insulation.
Working fluid	Water; water–glycol mixture (max. 1:1) or water–glycerine mixture (max. 2:1).
Installation	On return piping, min. distance of the pipe axis from a wall is 100 mm.

Codes	boiler output
18654 – for valve opening temperature 55 °C	max. 59 kW
18657 – for valve opening temperature 65 °C	max. 43 kW

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)	7.3 m³/h	
Load valve Kvs (B ►AB direction)	7.3 m³/h	
Max. pump speed	4800 rpm	
Pump speed control	frequency converter	
Pump motor protection	integrated	
Overall dimensions	390 x 210 x 165 mm	
Total weight	4.6 kg	
Connections	3 x G 5/4" F	

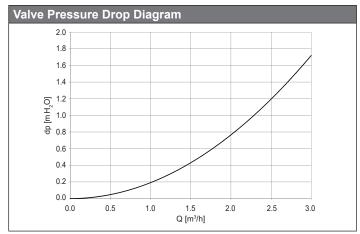
Electric Data		
Power supply	230 V, 50 Hz	
Power input (min./max.)	2/75 W	
Current (min./max.)	0.03/0.66 A	
Energy Efficiency Index	≤ 0.21 by EN 16 297/3	
IP rating	IPX4D	

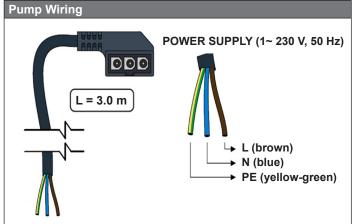
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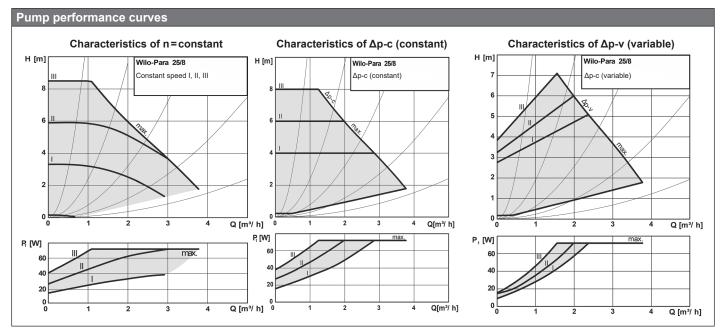


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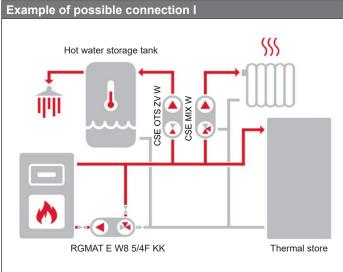






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The diagram shows a typical connection of a solid fuel boiler, thermal store and heating circuit (with the recommended CSE MIX W pump station – not included in supply). If the boiler is used also for hot water heating, it is recommended to install a CSE OTS ZV W pump station (not included in supply).

