


DATA SHEET

RGMAT E R8 1F Pump Station

	Main Features	
	Description	<p>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:</p> <ul style="list-style-type: none"> • RPA 25-8 Pump, • ball valve with union nut, • TSV3B Load Valve w. outer threads and automatic bypass balancing, • thermometer, • insulation.
	Working fluid	<p>Water; water/glycol mixture (max. 1:1). pH range 6.5-8.5. We recommend placing a filter with a mesh size of max. 0.6 mm upstream of the pump – e.g. Magnetfilterball – see the Catalogue for codes.</p>
Installation	On return piping, min. dist. of the pipe axis from a wall is 100 mm.	

Codes	výkon kotle
21115 – for valve opening temperature 55 °C	max. 42 kW
21122 – for valve opening temperature 65 °C	max. 30 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
Ochrana motoru čerpadla	integrated
Overall dimensions	325 x 140 x 155 mm
Total weight	3.1 kg
Connections	3 x G 1" F

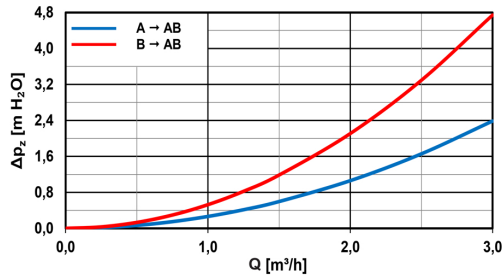
Electric Data	
Power supply	230 V, 50 Hz
Max. power input	65 W
Max. current	0.65 A
IP rating	IP44

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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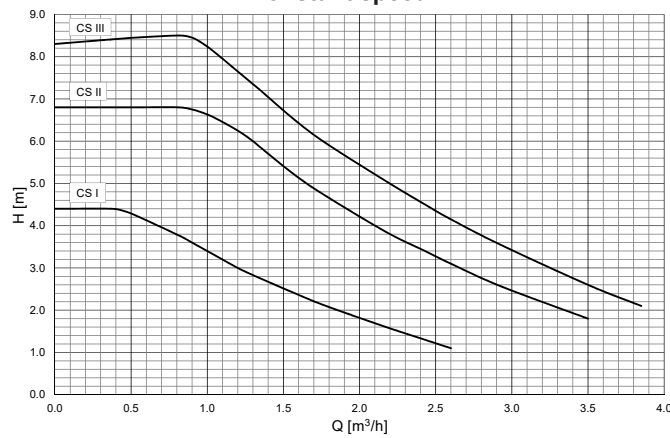
Valve pressure drop diagram



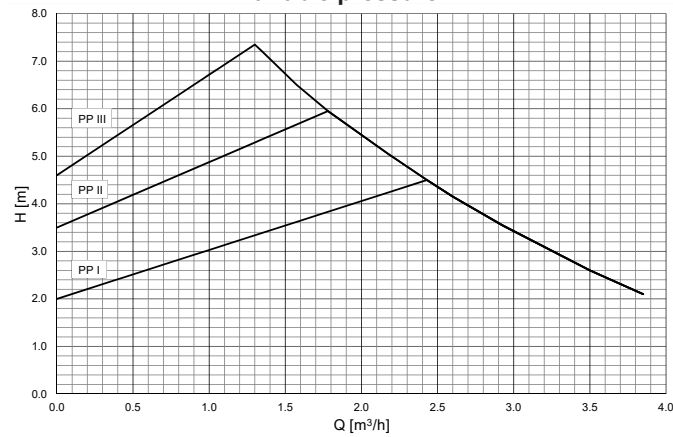
The pressure drop value of the valve moves between the two curves depending on the mixing ratio during mixing.

Pump performance curves

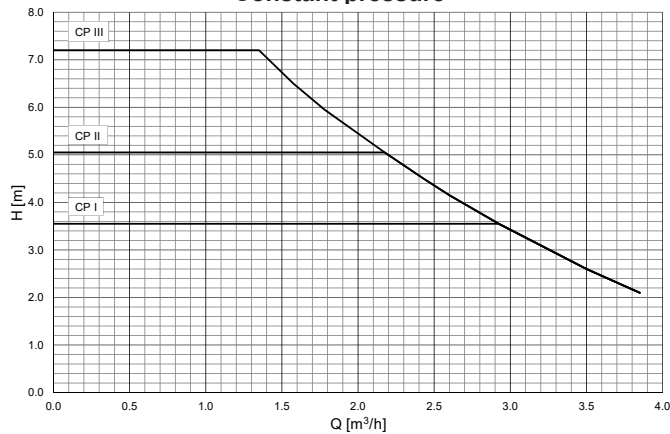
Constant speed



Variable pressure



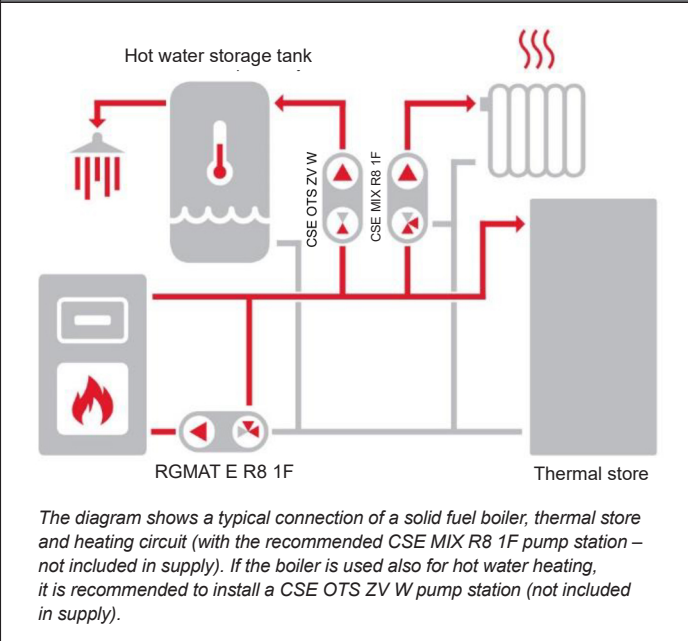
Constant pressure



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Example of possible connection I



Example of possible connection II

