# DATA SHEET
# RGMAT E R8 5/4 F 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 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.<br>The Load Unit consists of:<br>• RPA 25-8 Pump,<br>• TSV5B Load Valve w. outer threads and automatic bypass balancing,<br>• thermometer,<br>• insulation. |
| Working fluid | Water; water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1). 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. |
| Installation | On return piping, min. dist. of the pipe axis from a wall is 100 mm. |

| Codes | boiler output |
|---|---|
| **21258** – for valve opening temperature 55 °C | max. 53 kW |
| **21260** – for valve opening temperature 65 °C | max. 38 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) | 7.0 m³/h |
| Load Valve Kvs (direction B ►AB) | 4.9 m³/h |
| Pump motor protection | integrated |
| Overall dimensions | 325 x 140 x 220 mm |
| Total weight | 3.3 kg |
| Connections | 3 x G 5/4" F |

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

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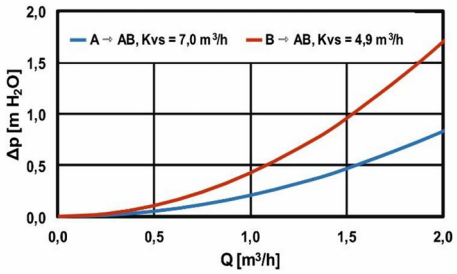
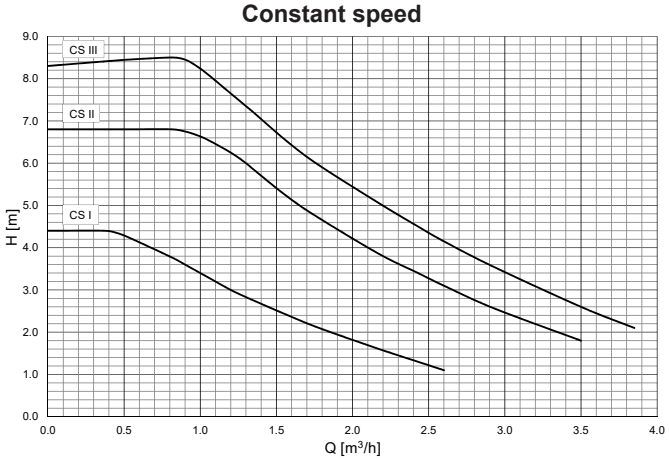
## Valve pressure drop diagram



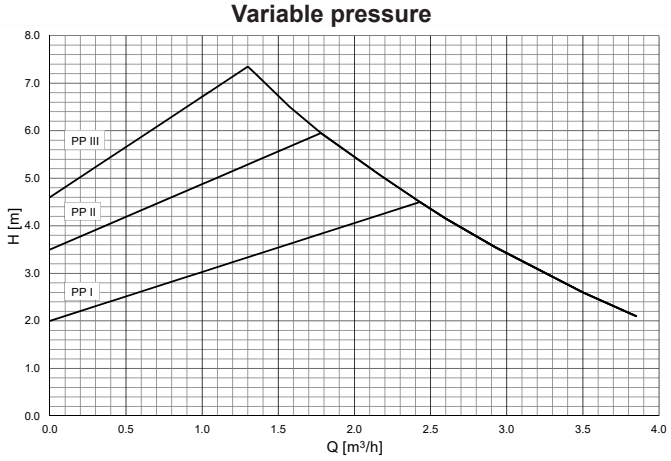

*The pressure drop value of the valve moves between the two curves depending on the mixing ratio during mixing.*

## Pump performance curves

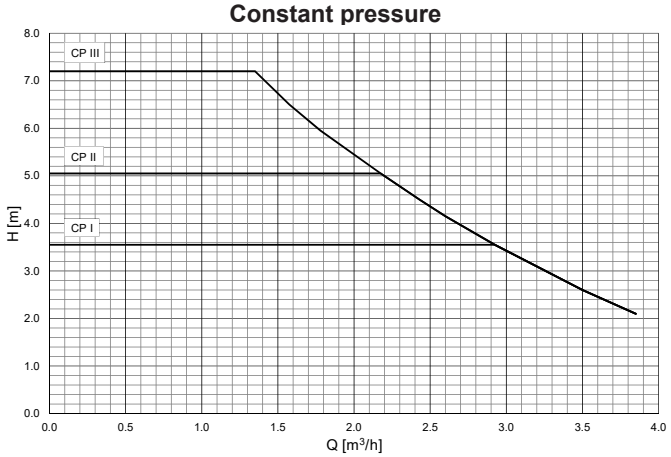
### Constant speed




### Variable pressure




### Constant pressure



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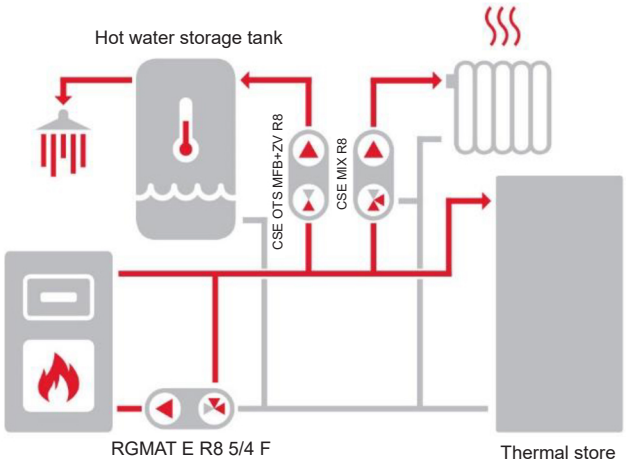
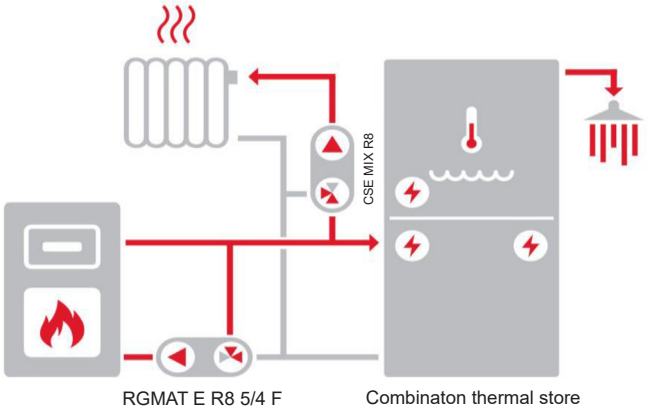
## Example of possible connection I




*The diagram shows a typical connection of a solid fuel boiler, thermal store and heating circuit (with the recommended CSE MIX R8 pump station – not included in supply). If the boiler is used also for hot water heating, it is recommended to install a CSE OTS MFB+ZV R8 pump station (not included).*

## Example of possible connection II




*The diagram shows a typical connection of a solid fuel boiler, combination thermal store and heating circuit (with the recommended CSE MIX R8 pump station – not included in supply).*

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