

## DATA SHEET RGMAT E R8 1F 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. The Load Unit consists of:  • RPA 25-8 Pump,  • ball valve with union nut,  • TSV3B Load Valve w. outer threads and automatic bypass balancing,  • thermometer,  • insulation. |
| Working fluid | 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.   |
| Installation  | On return piping, min. dist. of the pipe axis from a wall is 100 mm.  |

| Codes                                       | boiler output |  |
|---|---------------|--|
| 21374 – for valve opening temperature 45 °C | max. 54 kW    |  |
| 21115 – for valve opening temperature 55 °C | max. 42 kW    |  |
| 21122 – for valve opening temperature 65 °C | max. 30 kW    |  |
| 21375 – for valve opening temperature 70 °C | max. 26 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                  |   |
| Pump motor protection            | 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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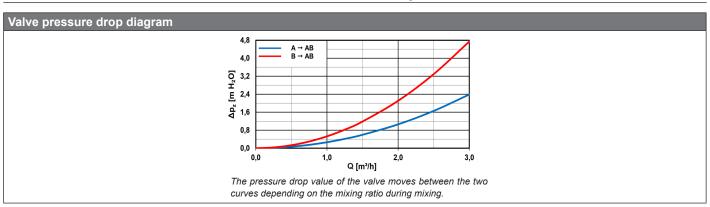
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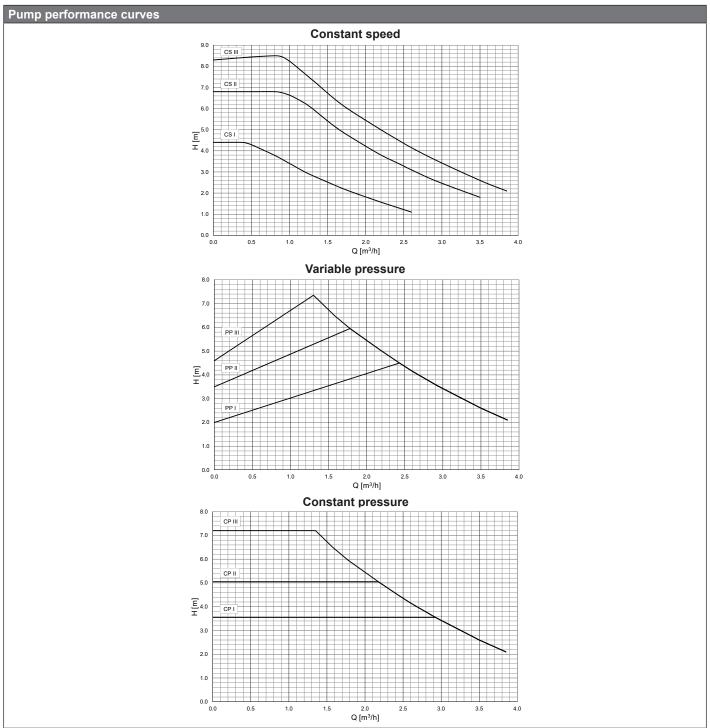
E-mail: rsales@regulus.eu

Web: www.regulus.eu



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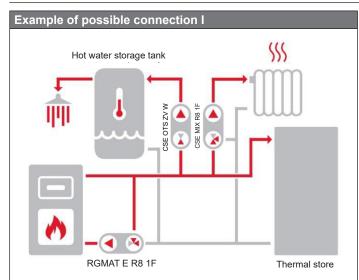
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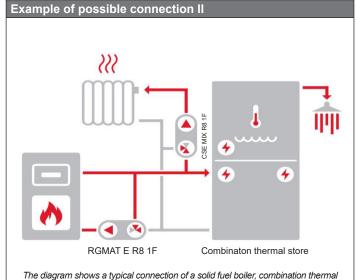
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The diagram shows a typical connection of a solid fuel boiler, thermal store and heating circuit (with the recommended CSE MIX R8 1F pump station – not included in supply). If the boiler is used also for hot water heating, it is recommended to install a CSE OTS ZV W pump station (not included in supply).



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