DATA SHEET

CSE MIX R6 1F T Pump Station

Main Features	
Application	Providing circulation and mixing of a heating circuit or solid fuel fired source circuit. Switching of the circulation pump and control of the mixing valve is realized from an external controller, which is not included.
Description	Consist of RPA 25-6 pump, LK 840 3-way mixing valve w. AVC actuator, thermometer and insulation.
Working fluid	Water, water-glycol mixture (max. 1:1) – pH 6.5-8.5. We recommend placing a filter with a mesh size of max. 0.6 mm upstream of the pump – e.g. Magnet FilterBall – see the Catalogue for codes.
Installation	Flow pipe to heating circuit / on solid fuel boiler return pipe, min. pipe centre distance from wall is 100 mm.
Code	**22021**

Pump Station Data	
Fluid working temperature	5–95 °C
Max. working pressure	10 bar
Min. working pressure	0.5 bar
Ambient temperature	5–40 °C
Max. relative humidity	80 %, non condensing
Mixing valve Kvs	10 m³/h
Valve Leakage rate	< 1 % Kvs at 5 mH_2O pressure difference
Actuator torque	5 Nm
Drive rotation angle	90°
Actuator shift time	120 s
Actuator control	3-point (SPDT)
Actuator auxiliary switch	no
Overall dimensions	305 x 135 x 195 mm
Total weight	3.3 kg
Connections	3 x G 1" F

Electric Data	
Power supply	230 V, 50 Hz
Max. pump power input	45 W
Max. pump current	0.42 A
Max. pump current	2.5 VA
Power cable length	3 m

Materials	
Insulation	EPP RG 60 g/l
Mixing valve and fittings	brass

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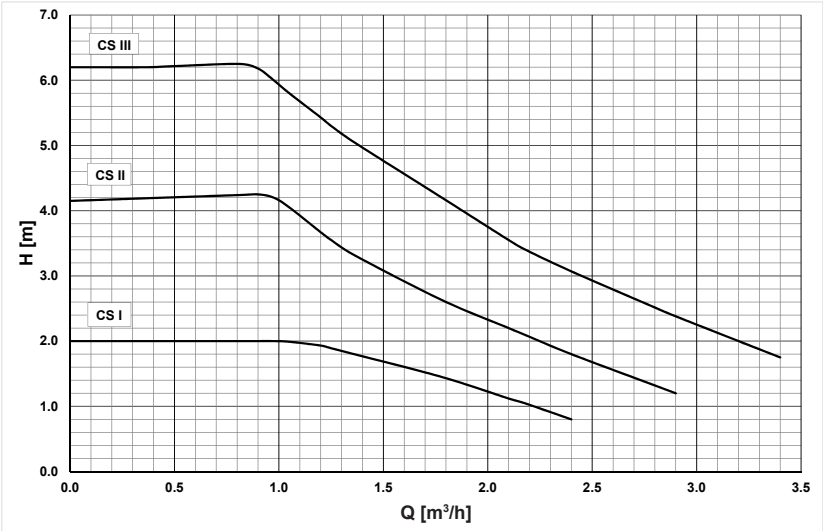
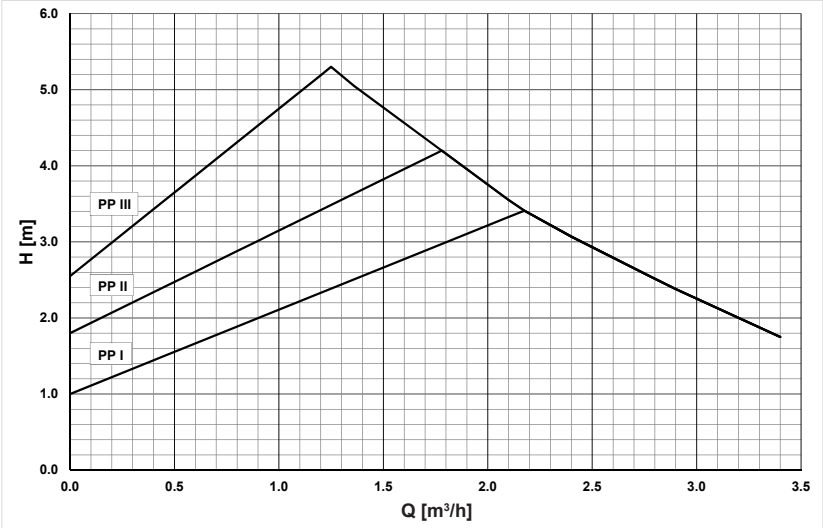
Pump performance curves

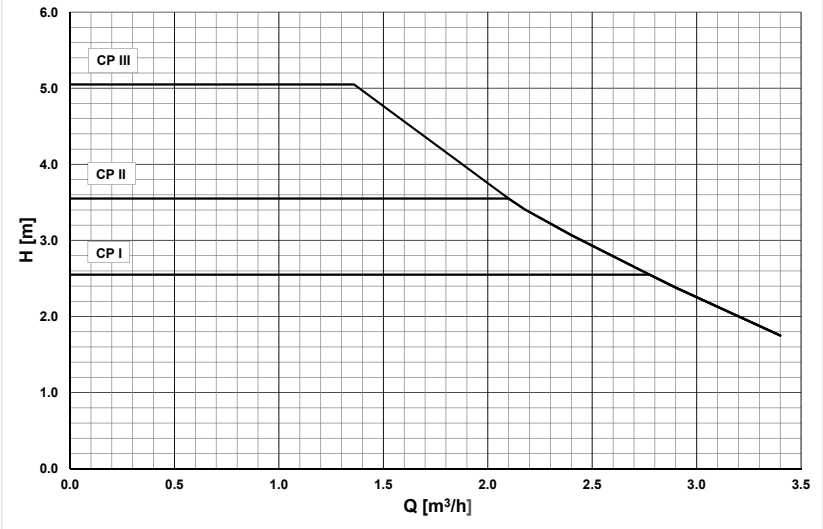
Constant speed



Variable pressure



Constant pressure



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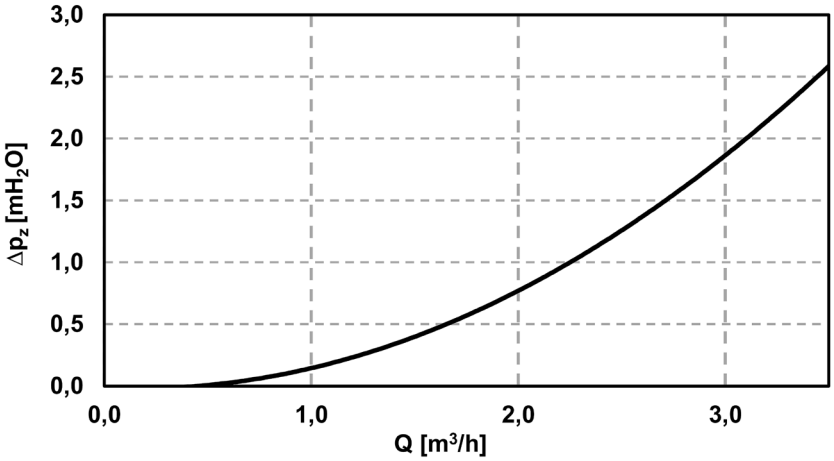
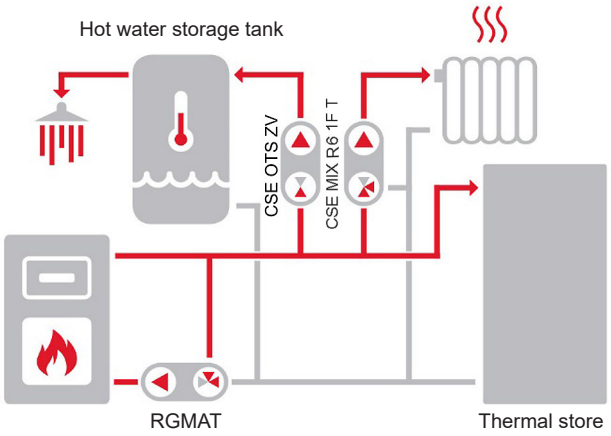
Pump Station Pressure Drop Graph

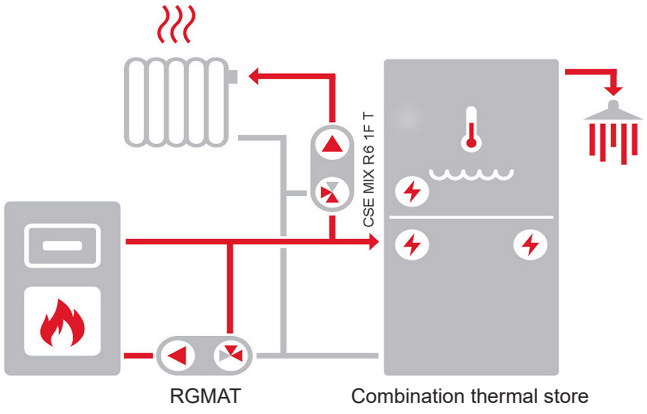


Example of possible connection I



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

Example of possible connection II



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