

Technical Standard Specification

Unit type: Water Advanced
WP5

Medium: Water up to 90°C/150°C
(Optional up to 180°C/200°C)

maximum external volume: 90 ltr at 90°C
29 ltr at 150°C
19 ltr at 180°C
13 ltr at 200°C

max. system pressure w/o system pressure at 90°C
6 bar plus pump pressure at 150°C
12 bar plus pump pressure at 180°C
20 bar plus pump pressure at 200°C

Funktionsausstattung hydraulisch

- Cooling and filling controlled by solenoid valve
- Configurable automatic filling via cooling water or separate connection (ex works cooling water inlet)
- Flow measurement by differential pressure
- Level monitoring by magnetic float switch
- Automatic temperature-dependent system closing (not for WP5-90)
- Flow monitoring by recording surface temperature of heating rods and flowrate
- Bypass between to and from process with reduced cross-section
- Dirt trap in cooling water supply, filling connection and return line of circulating system
- Continuous bypass of heat exchanger by 3-way-motorvalve (WP5-180/200)
- System pressure monitoring by pressure transmitter in extension vessel (WP5-150/180/200) (only in combination with Smart Controller)
- Booster pump for filling (WP4-180/200, optional for WP5)
- Safety temp. limiter (STB) in heating and to process line (WP5-200)
- Manometer in to process line at backside of unit
- Medium circuit insulated (WP5-150/180/200)



Functional equipment electrical

- Smart Controller (7" touch display)
- Heating control by solid-state-relay
- Control cabinet IP54, ventilated
- Heating capacity: According to order confirmation optional 12, 24, 36 or 48 kW

General equipment

- Expansion vessel, heater and piping made of stainless steel
- Heating with Incolloy stainless steel tubular heaters
- Dirt trap (medium): 1.4408
- Unit ready for connection and mounted on castors, thereof 2 swivel castors with brakes

Cooling

| Type | Capacity | Set-up | Connection cooling water |
|--------|----------|---|--------------------------|
| w/o | 0 | w/o | w/o |
| direct | 220 kW | w/o heat exchanger | IG 1" |
| 220 | 220 kW | Stainl.steel plate heat exchanger GBS400H | IG 1" |

Capacity at 80°C temperature to process and 15°C cooling water temperature, and pressure difference of 3 bar between cooling water inlet and outlet.

| Pumpe | 90° and 150° | | 180 and 200° | |
|--------------------|--------------|-------------|--------------|-------------|
| | Standard | Reinforced | Standard | Reinforced |
| | 5SV05 | 5SV10 | 5SV05 | 5SV08 |
| Output rate (max.) | 141 ltr/min | 141 ltr/min | 141 ltr/min | 141 ltr/min |
| Pressure (max.) | 3,8 bar | 7,5 bar | 3,7 bar | 6,0 bar |
| Motor capacity | 0,75 kW | 1,5 kW | 1,1 kW | 1,5 kW |
| Construction | centrifugal | centrifugal | centrifugal | centrifugal |

Dimensions/weight/colours

Dimensions L/W/H: 1.465 mm x 485 mm x 1.090 mm
(without connections)
Weight: approx. 220 kg
Colour: case: RAL 7035 light grey
front door: RAL 7016 anthracite grey

Connections

Circulation medium IG 1"
Sep.filling IG 1/2"

- Subject to technical changes; latest update: April 19th, 2021; changed by C.Scheufele -

This unit complies with the European Directives. Other directives and standards are met only if they listed in the order confirmation. This technical specification represents the standard equipment. For non-standard specifications upon customer's request see quotations or O/Cs. In case of contradictory information the quotation or O/C applies.