

Technical Standard Specification



Series: Water Advanced G

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

maximum external volume: 425 ltr at 90°C
134 ltr at 150°C
106 ltr at 180°C

max. system pressure: w/o system pressure at 90°C
4 bar plus pump pressure at 150°C
9 bar plus pump pressure at 180°C

Functional equipment hydraulic

- Cooling and filling controlled by solenoid valve
- Flow metering according to principle of pressure difference
- Level monitoring by magnetic float switch
- Automatic temperature-dependent system closing (not for 90°C)
- Flow monitoring by recording surface temperature of heating rods and flow
- Bypass between to and from process with reduced cross-section
- Dirt trap in cooling water supply and return line of circulating system
- Automatic filling via cooling water at 90°C and 150°C (via separate filling connection if w/o cooling)
- Separate automatic filling with dirt trap at 180°C (others: optional)
- For systems up to 90°C (for 150°C optional): additional manual filling via filling nozzle (switchable from manual to automatic)



Functional equipment electrical

- Smart Controller (7" touch display)
- Heating control by solid-state-relay
- Heating capacity can be switched on manually (from 48 kW)
- Control cabinet IP54
- Heating capacity: cf. O/C

General equipment

- Expansion vessel and heater stainless steel
- Piping galvanized steel (180°C: circulation piping stainless steel)
- Heating with Incolloy stainless steel tubular heaters
- Unit mounted on rollers and ready for connection

Cooling

Type	Capacity	Set-up	Connection cooling water
w/o	0	w/o	w/o
150 (90°C and 150°C)	174 kW	copper fin-tube heat exchanger	hose nipple G3/4 (28 mm)
400 (90°C and 150°C)	400 kW	stainless steel plate heat exchanger B35/40	hose nipple G1 (28 mm)
200 (180°C)	232 kW	stainless steel tube bundle heat exchanger	sealing cone DIN 3863/3870 G1 ext.thread

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.

Pump	50 Hz	Reinforced
	CR 15-3	CR15-5
Output rate (max.)	400 ltr/min	400 ltr/min
Pressure (max.)	4.1 bar	7.1 bar
Motor capacity	3.0 kW	4.0 kW
Construction	centrifugal	centrifugal

Dimensions/weight/colours

Dimensions L/W/H: 1,715 mm x 505 mm x 1,350 mm (w/o connect.)
Weight: approx. 370 kg
Colour: case: RAL 7035 light grey
front door: RAL 7016 anthracite grey

Connections

Circulating medium 90°C / 150°C: screw joint
DIN 2950 G 2 internal thread
180°C: flange DIN EN 1092-1
form B1 DN50 PN40
Separate filling 90°C / 150°C: hose nipple 14 mm
(opt. at 90°C / 150°C) 180°C: sealing cone DIN3863/3870
G1/2 ext.thread

- Subject to technical changes; latest update: Oct. 13th, 2023; 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.