

# Technical Standard Specification



Series: Water Advanced **G2/65**

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

maximum external volume: 1,200 ltr at 90°C  
280 ltr at 150°C  
185 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 (90°C: Eddy current principle)
- 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 with dirt trap 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 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
600 (90°C and 150°C)	600 kW	stainless steel plate heat exchanger B60/30	hose nipple G1 (28 mm)
400 (180°C)	450 kW	stainless steel tube bundle heat exchanger	sealing cone DIN 3863/3870 G1 1/2 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

	Standard	Reinforced
Output rate (max.)	CR 32-2 650 ltr/min	CR32-4 650 ltr/min
Pressure (max.)	4.0 bar	7,7 bar
Motor capacity	4.0 kW	7,5 kW
Construction	centrifugal	centrifugal

## Dimensions/weight/colours

Dimensions L/W/H: 1,765 mm x 635 mm x 1,680 mm (w/o connect.)  
Weight: approx. 630 kg  
Colour: case: RAL 7035 light grey  
front door: RAL 7016 anthracite grey

## Connections

Circulating medium 90°C / 150°C: flange DIN EN 1092-1 form B1 DN 65 PN 16  
180°C: flange DIN EN 1092-1 form B1 DN65 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.**