

# Technical Standard Specification

Series: Water Advanced NS

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

	maximal external volume	max. systemd pressure
bei 90°	103ltr	no system pressure, <i>only pump pressure</i>
bei 150°C	28 ltr	4 bar plus pump pressure
bei 180°C	14 ltr	9 bar plus pump pressure
<i>direct cooling up to 90°</i>	<i>unlimited</i>	<i>pressure cooling water plus pump pressure</i>

## Functional equipment hydraulic

- Cooling and filling controlled by solenoid valve
- Flow metering according to principle of pressure difference (90°C: Eddy current principle)  
(no flow metering in Product Line "Base" or with Base-package)
- 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 and 180°C: optional): additional manual filling via filling nozzle  
(switchable from manual to automatic); *not for direct cooling*



## Functional equipment electrical

- Smart Controller (7" touch display)  
(Base-Package or Product Line "Base": SBC-T)
- Heating control by solid-state-relay
- Control cabinet IP54
- Heating capacity: cf. O/C

## General equipment

- Corrosion resistant components (VA, MS)
- 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
<i>direct</i>	<i>200 kW</i>	<i>without heat exchanger</i>	<i>hose nipple G3/4 (21 mm)</i>
116 (90°C and 150°C)	116 kW	stainless steel plate heat exchanger	hose nipple G1/2 (14 mm)
215 (90°C and 150°C)	215 kW	stainless steel plate heat exchanger	hose nipple G3/4 (21 mm)
		stainless steel tube bundle heat exchanger	
65 (180°C)	65 kW		sealing cone DIN 3863/3870 G3/4 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
	CRI 5-6	CRI 5-11
Output rate (max.)	140 ltr/min	140 ltr/min
Pressure (max.)	4.0 bar	7.5 bar
Motor capacity	1.1 kW	2.2 kW
Construction	centrifugal	centrifugal

## Dimensions/weight/colours

Dimensions L/W/H:	790 mm x 345 mm x 945 mm (w/o connect.) (Pump 5-11 is approx. 5 mm higher than housing and looks out at the top)
Weight:	approx. 140 kg
Colour:	case: RAL 7035 light grey front door: RAL 7016 anthracite grey

## Connections

Circulating medium 90°C/150°C:	socket G1
180°C:	sealing cone DIN 3863/3870 G1 ext.thread
Separate filling 90°C/150°C:	hose nipple 14 mm
(opt. at 90°C / 150° 180°C:	sealing cone DIN3863/3870 G3/8 ext.thread

- Subject to technical changes; latest update: Oct. 12th, 2018; changed by F.Spork -

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.