

Technical Standard Specification

Series: Water Advanced N1

at 180°C → Water Advanced N1/NS

maximum external volume:	60 ltr at 90°C
	20 ltr at 150°C
	22 ltr at 180°C

Medium: Water up to 90°C/150°C

(Optional up to 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) (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)



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
35 (90°C and 150°C)	35 kW	copper tube bundle heat exchanger	hose nipple 14 mm
80 (90°C and 150°C)	80 kW	stainless steel plate heat exchanger	hose nipple G3/8 (14 mm)
35 (180°C)	35 kW	stainless steel tube bundle heat exchanger	sealing cone DIN 3863/3870 G1/2 ext.thread
50 (180°C)	50 kW	stainless steel tube bundle heat exchanger	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 (90° and 150°)	Reinforced 180°
Output rate (max.)	CRI 3-6 75 ltr/min	CRI3-11 75 ltr/min	CRI3-9 75 ltr/min
Pressure (max.)	3.9 bar	7.5 bar	5.9 bar
Motor capacity	0.55 kW	1.1 kw	0.75 kw
Construction	centrifugal	centrifugal	centrifugal

Dimensions/weight/colours

Dimensions L/W/H:	770 mm x 315 mm x 765 mm (90°C / 150°C)
(w/o connect.)	(Pump 3-11 is approx. 5 mm higher than housing and looks out at the top)
Weight:	approx. 100 kg
Colour:	case: RAL 7035 light grey front door: RAL 7016 anthracite grey

Connections

Circulating medium	90°C/150°C: sealing cone DIN 3863 G3/4 180°C: sealing cone DIN 3863/3870 G3/4 ext.thread internal piping 1/2" each
Separate filling (opt. at 90°C / 150°C)	90°C / 150°C: hose nipple 14 mm 180°C: sealing cone DIN3863/3870 G3/8 ext.thread

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

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.