

# Technical Standard Specification



<b>Series:</b>	<b>Compact WK3</b>	<b>Medium: Water</b>
	WK3-(max. temperature)-(heating capacity)-(cooling capacity)	
maximum media temperature:	indirect cooled: 90°C, 150°C, 160°C, 180°C direct cooled: 100°C	
maximum external volume:	16 ltr at 150°C 15 ltr at 160°C 11 ltr at 180°C 38 ltr at 90°C	max. system pressure: 12 bar + pump pressure at 180°C-vers. 8 bar + pump pressure at 160°C-vers. 7 bar + pump pressure at 150°C-vers.

## Functional equipment hydraulic

- Cooling and filling controlled by solenoid valve
- Automatic filling via cooling water
- Filling changeable to separate connection (standard for unit w/o cooler)
- Bypass between to and from process with reduced cross-section
- Level monitoring by magnetic float switch
- Automatic temperature-dependent system closing (for 150°C and higher)
- Monitoring of to process pressure via manometer at backside of unit
- Flow monitoring by measuring surface temperature of heating rods, temperature fuse
- Dirt trap in cooling water supply, filling line and return line of circulating system
- Isolation of all heat carrying hydraulic components
- Booster pump (160°C and higher)
- Continuous bypass of heat exchanger (for 180°C, others optional)



## Functional equipment electrical

- Controller SBC-T (3,5"-touch display)
- Controller Smart Controller (7"-touch display) incl. flow measurement and return run (for 180°C, others optional)
- Heating by Hybrid-SSR (380 to 415V), otherwise SSR
- Control cabinet IP54
- heating power: 3; 4,5; 6 or 9kW (at nominal voltage)

## Allgemeine Ausstattung

- Corrosion-resistant components (stainless steel, brass)
- 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	---	---	w/o
50D	58 kW	direct cooled	12,8 l/min int. thread 1/2"
50	50 kW	plate heat exchanger	13,5 l/min int. thread 1/2"

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

Type	90°C, 150°C-version		magnetically coupled			
	standard	reinforced	160°C-version		180°C-version	
	Y2051	Y4081	AY2251	CY4281	AY2251	CY4281
Output rate (max.)	27 ltr/min	60 ltr/min	38 ltr/min	57 ltr/min	38 ltr/min	60 ltr/min
Pressure (max.)	5 bar	6,0 bar	5,0 bar	6,0 bar	5,0 bar	6,0 bar
Motor capacity	0,5kW	0,75 kW	0,5 kW	1,0 kW	0,5 kW	1,0 kW
Type			peripheral wheel			

## Dimensions/weight/colours

Dimensions L/W/H:	780 (w/o connections) x 305 x 705 mm (with Advanced-package L = 835 mm)
Weight:	72 kg to 90 kg, (depend. On features)
Colour:	case: RAL 7035 light grey front door: RAL 7016 anthracite grey

## Connections

Circ. Medium:	int. thread 1/2"
Filling	int. thread 1/2"

- Subject to technical changes; latest update: May 27th, 2019; changed by U.Hoferer -

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.