

# Technical Standard Specification

Series: Oil Advanced D1

Medium: Oil up to 300°C  
Optional up to 350°C

maximum external volume: 39 ltr at 180°C  
15 ltr at 300°C  
11 ltr at 350°C

## Functional equipment hydraulic

- Cooling controlled by solenoid valve
- Flow metering according to principle of pressure difference
- Bypass between to and from process with reduced cross-section
- Level monitoring by magnetic float switch
- Flow monitoring by recording surface temperature of heating rods and flow
- Dirt trap in cooling water supply and return line of circulating system
- Monitoring of pre-run temperature by electronic safety temperature observer
- External oil-filler neck
- Dilo screw joints at screwed piping connections in the unit (except pump connections)
- 350°: Bypass control of heat exchanger



## Functional equipment electrical

- Smart Controller (7" touch display)
- Heating control by solid-state-relay
- Control cabinet IP54
- Heating capacity: cf. O/C

## General equipment

- Piping and vessel: steel
- Heating with flow-type heater
- Unit mounted on rollers and ready for connection

## Cooling

Temperature	Capacity	Set-up	Connection cooling water
	0	w/o	w/o
180°C/300°C	50 kW	copper fin-tube heat exchanger	sealing cone G3/8 external thread
350°C	50 kW	stainless steel fin-tube heat exchanger	sealing cone G3/8 external thread

Capacity at 150°C temperature to process and 15°C cooling water temperature, and pressure difference of 3 bar between cooling water inlet and outlet.

## Pump

\* pressure data only for process media with density of 1000 kg/m³

	300°C/350°C TOE/CY 4281	300°C/350°C TOE/CY 6091
Output rate (max.)	60 ltr/min	80 ltr/min
Pressure (max.)	6.0 bar*	11.0 bar*
Motor capacity	1.0 kW	2.8 kW
Construction	peripheral	peripheral

## Dimensions/weight/colours

### D1-300 (no constant bypass of heat exchanger)

Dimensions L/W/H: 914 x 343 x 1,095 mm (w/o connect.)  
Weight: approx. 200 kg

### D1-350 or with constant bypass of heat exchanger

Dimensions L/W/H: 1.124 x 393 x 1.180 mm  
Weight: approx. 250 kg  
Colour: case: RAL 7035 light grey  
front door: RAL 7016 anthracite grey

- Subject to technical changes; latest update: Mar. 31th, 2020; changed by C.Scheufele -

## Connections

Circulating medium flange DN 25 PN 16-40

**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.**