

Technical Standard Specification

Series: Oil Advanced D2

maximum external volume: 186 ltr at 180°C
86 ltr at 300°C
66 ltr at 350°C

Medium: Oil up to 300°C

Optional up to 350°C/180°C (pump CY 5091)

Functional equipment hydraulic

- Cooling controlled by solenoid valve
- Flow metering according to principle of pressure difference (no flow metering in Product Line "Base" or with Base-package)
- 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 (not together with base package), incl. bellows valves
- Connection for nitrogen blanketing with pressure gauge and safety valve 0.5 bar at 350°C (optional)



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

- Piping and vessel: steel
- Heating with Incolloy stainless steel tubular heaters
- 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
180°C/300°C	116 kW	copper fin-tube heat exchanger	sealing cone G1/2 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.

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

Pump	300°C/350°C	300°C/350°C	180°C
	TOE/CY 6091	TOE/CY 6091	CY 5091
Output rate (max.)	100 ltr/min	150 ltr/min	100 ltr/min
Pressure (max.)	8.0 bar*	8.0 bar*	11.0 bar*
Motor capacity	2.8 kW	4.0 kW	2.8 kW
Construction	peripheral	peripheral	peripheral

Dimensions/weight/colours

D2-300 (no constant bypass of heat exchang.) and D2-180:

- Dimensions L/W/H: 1,124 x 393 x 1,180 mm (w/o connect.)
- Weight: approx. 225 kg

D2-350 or constant bypass of heat exchanger

- Dimensions L/W/H: 1,414 x 503 x 1,350 mm (w/o connect.)
- Weight: approx. 320 kg

Colour: case: RAL 7035 light grey
front door: RAL 7016 anthracite grey

Connections

Circulating medium	flange DN 25 PN 16-40 (DIN EN 1092-1), form B1
Nitrogen	hose nipple 10 mm (optional)

- Subject to technical changes; latest update: Apr. 16th, 2019; 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.