

# Technical Standard Specification

Series: Oil Advanced D3

Medium: Oil up to 300°C  
Optional up to 350°C/180°C

maximum external volume: 307 ltr at 180°C  
140 ltr at 300°C  
108 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)
- Bellow-seal shut-off valves in pre- and return-run
- 350°: Bypass control of heat exchanger (not together with base package)
- 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)
- 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
- Glycerin-filled manometer in pre-run

## Cooling

Temperature	Capacity	Set-up	Connection cooling water
	0	w/o	w/o
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.

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

	<b>SY 32-160.1/302</b>
Output rate (max.)	360 ltr/min
Pressure (max.)	4.2 bar*
Motor capacity	3.0 kW
Construction	centrifugal

## Dimensions/weight/colours

Dimensions L/W/H:	1,414 x 503 x 1,350 mm (w/o connect.)	
Weight:	approx. 380 kg	
Colour:	case:	RAL 7035 light grey
	front door:	RAL 7016 anthracite grey

## Connections

Circulating medium	flange DN 32 PN 16-40 (DIN EN 1092-1), form B1
Nitrogen	hose nipple 10 mm

- 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.*

