

Salamander - Fixed Bed Reactor

Commodity Code

8419899800

Bench Mounting

Standard Specification

Reactor construction		316 Stainless Steel
Split tube Furnace Style		Single Zone
Maximum Operating Temperature	°C	300
Maximum Operating Pressure	Bar	20
Connectivity		Swagelok Fittings

Catalyst Bed/Column options (Choose one only)

1. Columns 2ml (2 x 10 micron frits in Stainless Steel)

Part Number		26430
Tube	mm	3/8"OD, 7.75mm ID, 88.5 mm long
Wall thickness	inches	35/1000 = 0.89 mm
ID	cm	0.78
Heater Length	cm	6.95
Actual Volume	mL	3.28

2. Columns 5ml (2 x 10 micron frits in Stainless Steel)

Part Number		29480
Tube	mm	3/8"OD, 7.75mm ID, 171.5 mm long
Wall thickness	inches	35/1000 = 0.89 mm
ID	cm	0.78
Heater Length	cm	15.25
Actual Volume	mL	7.19

3. Columns 5ml (2 x 10 micron frits in Stainless Steel)

Part Number		29490
Tube		3/8"OD, 6.22mm ID, 247.5mm long
Wall thickness	inches	65/1000 = 1.651 mm
ID	cm	0.62
Heater Length	cm	22.85
Actual Volume	mL	6.89

4. Columns 2ml (2 x 10 micron frits in Stainless Steel)

Part Number		29500
Tube		1/4"OD, 4.57mm ID, 188.5 mm long
Wall thickness	inches	35/1000 = 0.89 mm
ID	cm	0.46
Heater Length	cm	17.07
Actual Volume	mL	2.80

Frit Material		316 Stainless Steel
Frit Options	microns	0.5
	microns	2
	microns	10

Internal thermocouple	- Sensor Type	Optional Part Type N
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Catalyst support		User supplied
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Heater Sensor	- Sensor Type	Yes PT100
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Cooling Coil	Material	316 Stainless Steel
	OD	mm 3.2
	ID	mm 1.6 -2.0
	Length	cm 70-100

Smart Controller

Display		Optional Part VGA
Set point temperature setting resolution	°C	0.1
Temperature display resolution	°C	0.1
Safety circuit min. (software)	°C	600
Heater Accuracy	°C	± 1.0
Control method		PID
Internal Sensor		Type N

Electrical

Voltage	V	110V/230V
Frequency	Hz	50/60
Power input	W	2000 (110V)/1000 (230V)
Fuses (External)		10A (110-230V)

Connectivity

Ethernet interface		yes
USB Data Storage		yes
Real time historical log		yes

Environment

Permissible ambient temperature	°C	5 - 40
Permissible relative moisture		No data
Protection class according to DIN EN 60529		IP 20