

## Salamander - Fixed Bed Reactor (Advanced)

<b>Reactor Module</b>	<b>Part Number</b>		<b>70020</b>
	Dimensions	l x w x h, cm	20 x 33 x 65
	Weight	kg	20
	Voltage	V	230
	Current	A	9.3
<b>Gas Feed Module</b>	<b>Part Number</b>		<b>69390</b>
	Dimensions	l x w x h, cm	20 x 33 x 20
	Weight	kg	10
	Voltage	V	24
	Current	A	2.6
<b>Liquid Feed Syringe Pump Module</b>	<b>Part Number</b>		<b>78280</b>
	Dimensions	l x w x h, cm	20 x 33 x 20
	Weight	kg	10
	Power		Refer to product specifications
<b>Mass Balance Module</b>	<b>Part Number</b>		<b>70790</b>
	Dimensions	l x w x h, cm	20 x 33 x 20
	Weight	kg	10
	Power		Refer to product specifications
Commodity Code			<b>8419899800</b>
<b>Reactor Operating Conditions</b>			
Maximum Operating Temperature		°C	550
Maximum Operating Pressure		Bar	60
	Type		Split Furnace, Water cooled
	Connectivity		Single Zone Swagelok Fittings
<b>Reactor 4ml (10 micron frits in Stainless Steel)</b>	<b>Part Number</b>		<b>26420</b>
	Tube	mm	16mm OD, 9.6mm ID, 225 mm long
	Wall thickness	mm	3.2
	ID	cm	0.96
	Heater Length	cm	5.80
	<b>Actual Volume</b>	<b>mL</b>	<b>4.20</b>
	Frit Material		316 Stainless Steel
	Frit	microns	10
	Sensor Type		Type K
	Diameter		1/16"
	Length	mm	200
	Catalyst support		User supplied
<b>Temperature Management</b>			
Heater block	Length	mm	150
	Material		316 Stainless Steel
	Heater Type		Cartridge
	No. of heaters per block		2
	Heater diameter	mm	3/8"
	Heater power	W	150
	Sensor Type		Type K
	Number		2
	Diameter	inches	1/16"
<b>Pressure Management</b>			
Back Pressure Regulator	Regulator Type		Diaphragm
	Diaphragm material		316 Stainless Steel
	Connections	inches	1/4" NPT
	Operating Limit	bar	60
<b>Smart Controller</b>			
Display			VGA
Set point temperature setting resolution		°C	0.1
Temperature display resolution		°C	0.1
Heater Accuracy		°C	± 1.0
Control method			Cascade
Internal Sensor			Type K
<b>Electrical</b>			
Voltage		V	230V
Frequency		Hz	50/60
Current		A	9.3
<b>Fuse</b>			
	F1	Inlet (230V)	A
	F3	Outlet (230V)	A
	F2	Outlet (24V)	A
<b>Connectivity</b>			
Ethernet interface			yes
USB Data Storage			yes
Real time historical log			yes
<b>Environment</b>			
Permissible ambient temperature		°C	5 - 40
Permissible relative moisture			No data
Protection class according to DIN EN 60529			IP 20
<b>Smart Software</b>			
	Application		Labview
	PC		Windows
	PC		Windows