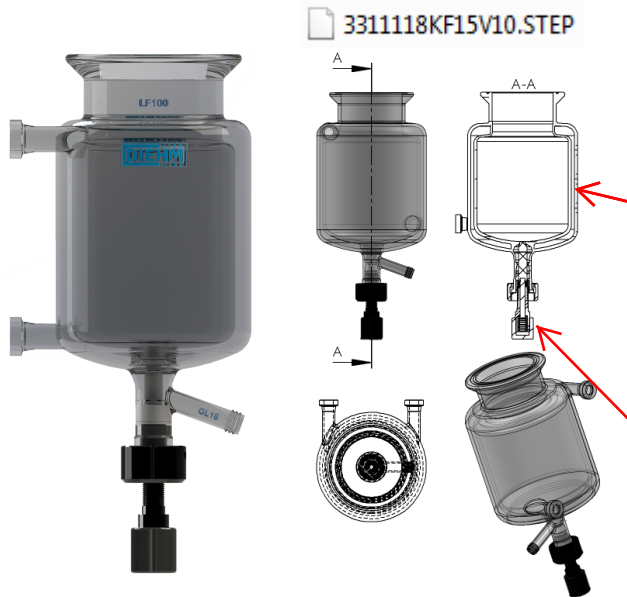


Why DIEHM Reactors?

The oldest, still used DIEHM reactor is more than 25 Years old!




For each reactor we can provide a 3D drawing and a step file for using in other drawing programmes.

The distance between the walls is very small, so a high flow rate of the thermostatic liquid is realised. This is the guarantee for a very short reaction time, an exact reactor temperature and less thermostatic fluid with all its advantages

A spring loaded valve protect the glass part from cracking because of the expanding process of the spindle at heating up, or from low temperatures to room-temperature.

Calculated reactors: We deliver technical information for all our reactors. This is very important for scale up.

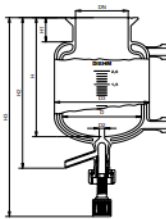


English

Technical Informations

Select article no.

30111050K/25125



D1	400 mm
D2	401 mm
D3	25 mm
D4	25 mm
D5	445 mm
D6	100 mm
D7	100 mm
D8	100 mm
D9	600 mm
D10	110 mm

Thermocouple connection
KPT25

Important inputs

Standard stirrer for less viscous liquids, standard adjusting height

Additional calculation for following capacity

10.00

Additional Options

Additional calculation:

rotation at level	1.5 s Ø/h
Pump weight	425 mm
Energy transfer	4.00 inch

Technical Informations

Seite / page

2

Technical Informations

Nominal capacity	50	Liter/lbs
Total capacity	60.1	Liter/lbs
Rated capacity	8.5	Liter/lbs

At using an anchor stirrer

Min. stirred capacity	0.35	Liter/lbs
Min. stirred capacity	2.28	Liter/lbs

At the selected stirrer

Min. stirred capacity	4.25	Liter/lbs
Min. stirred capacity	1.70	Liter/lbs
Surface inside	0.747	m²
Surface inside	0.921	m²
Max. energy/parameter at using the complete double jacket	4.14	kwh/h·t·°F
Energy/parameter of nominal capacity	1.58	kwh/h·t·°F
Length Ø relation of nominal capacity	11.19	Ø 3"
Min. energy through the surface	26	kwh/h·t·°F
Temperature range	-40 ... +200°C	
Max. inner pressure	-30 ... 200°C	
Min. rotation	0.5	turn
Max. inner pressure of the thermocouple jacket	-30 ... 200°C	
Weight	16.3	kg

Calculation of the Thermal power single calculation

Heat the wanted product temperature		Cooling
Heating	+	-
Min. needed heating power	The Delta T must be exactly controlled	Min. needed cooling power
8.3		2.2
		- 25 °C

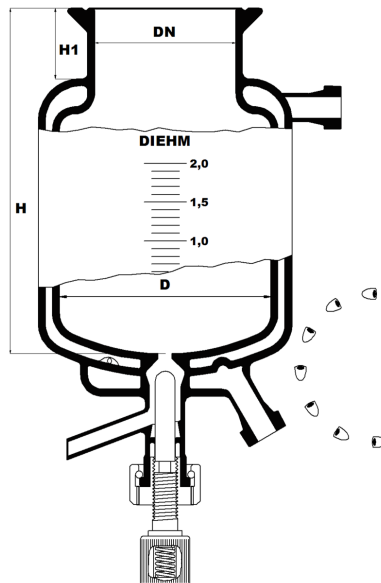
Max. transferable heating power	Only dependent from the heat up or cool down time!	Max. transferable cooling power
10.4	kw	6.3
		- 25 °C

Material of contact

Material	Nonmetallic glass 3.3
Welding plate	PTFE
Welding seal	PTFE
Serial Number	24375

Reactors of different types allow us to offer exactly the right reactor to the customer. Connectors left, right or behind, standard- or turbo injection of the thermostatic fluid, Stainless steel coil inside to imitate a half pipe thermostatic reactor are only some examples.

A lot of different valves in sizes of 10mm, 16mm, 20mm and 25mm are available in stock. We can deliver all with an O-ring seal at the top and as addition an integrated Pt100 sensor. All with different outlet possibilities. All can be hand operated or with pneumatical drive. All valves of the same size and for the same reactor type is inter-changeable.



- The optional turbo injection brings a very high circulation of the thermostatic fluid.
- Because of this the mantle surface is used better for heat transfer.
- This reactor responds more than 10 times faster than standard reactors.
- This is the cheapest way to realise a highly efficient reactor.

We offer 3 wall reactors as standard or as highly resistant variants with a ΔT up to 100K.

