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Premium Minireactors

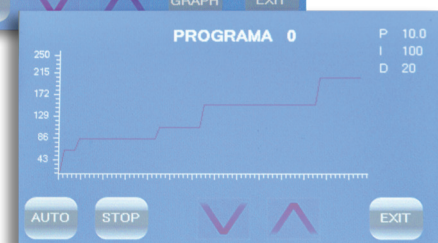
High performance in a compact design



Compact Premium Minireactors for synthesis in liquid and electrical heating, ideal for applications in

Premium HME-R Minireactor

- ▶ Aluminium block for fast and homogenous heating with groove for internal visibility.
- ▶ Electrical heating from +15 to 250°C with PT100 sensor.
- ▶ Reaction vessels from 50ml to 2 litres.



- ▶ Easy internal access:
- Quick release tool-free vessel clamp made of stainless steel.



- ▶ USB port for datalogging.



- ▶ Colour touch screen.
- ▶ Temperature ramps with up to 10 programs of 6 segment and graphics with real-time temperature and stirring curves (Premium HME-R model).
- ▶ Autotuning function.



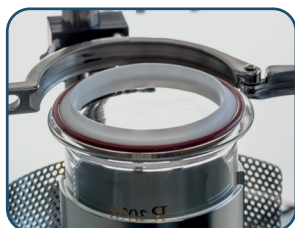
phase with mechanical stirring research and education

Premium MR Minireactor

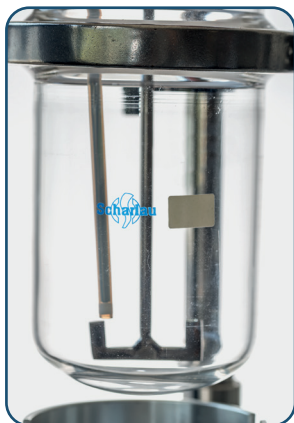
- ▶ Jacketed reaction vessels from 50ml to 2 litres.
- ▶ Temperature control through external equipment (heating or cooling).
- ▶ Stirring speed and time settings.
- ▶ Zero dead space drain PTFE stopcock.
- ▶ Safety drip tray for accidental spills.



- ▶ Mechanical stirring:
 - Stirrer bearing with quick motor coupling.
 - It maintains exact speed under changing loads or viscosity.
- ▶ Heavy-duty stainless steel telescopic stand.



- ▶ Standard 5 neck glass lid customizable on request.
- ▶ FEP encapsulated silicone O-ring, grease free, with self-centering PTFE collar.



- ▶ Inert and chemical resistant materials in contact with the reaction product (Glass, PTFE, Hastelloy® stirring shaft).



Technical specification

	PREMIUM HME-R MODEL	PREMIUM MR MODEL
Temperature range	Ambient +30 °C to 250 °C. (0.5 °C intervals) PT100 sensor	Depending on the circulating bath to which it is connected
Stirring speed range	100-700 rpm* controlled by microprocessor (10 rpm intervals)	
Programs	Up to 10 programs of 6 segments (Temperature, speed and time)	Up to 10 programs of 6 segments (Speed and time). Temperature: only register
Pressure range	From 5 mbar to 0.7 bar overpressure	
Display	Colour touch screen	
Graphics	Real-time temperature and stirring curves	
Materials	Glass, PTFE, Hastelloy®	
Alarm	Audible alarm	
Overheating protection	Automatic safety shutdown	-
Ports	USB port for datalogging	
Footprint dimensions	276 x 315 mm	
Minimum/Maximum height	635/935 mm (885/1150mm for 5 liters minireactor)	
Power	800W (hotplate) 50W (stirrer)	50W (stirrer)
Power supply	220V, 50-60 Hz	

* Available lower speed range on request (1-400rpm)

Order Information

Premium Minireactor HME-R with mechanical stirring and electrical heating

ART. NO.	CAPACITY	Ø JOINT	PACK (U.)
PHMER00/50	50ml	2.5"	1
PHMER0/100	100ml	2.5"	1
PHMER0/250	250ml	3"	1
PHMER/5003	500ml	3"	1
PHMER/5004	500ml	4"	1
PHMER/1000	1000ml	4"	1
PHMER/2000	2000ml	4"	1

Premium Minireactor MR with mechanical stirring and jacketed reaction vessel

ART. NO.	CAPACITY	Ø JOINT	PACK (U.)
PMR0000/50	50ml	2.5"	1
PMR000/100	100ml	2.5"	1
PMR000/250	250ml	3"	1
PMR00/5003	500ml	3"	1
PMR00/5004	500ml	4"	1
PMR00/1000	1000ml	4"	1
PMR00/2000	2000ml	4"	1

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