

# Стеклянные мини реакторы

## Технические характеристики

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The Scharlau minireactors for liquid phase synthesis come with mechanical stirring and heating. There are two models available for liquid phase synthesis: one with mechanical stirring and heating, and another which provides mechanical stirring and is jacketed. Glass minireactors are versatile and efficient, designed for chemical reactions in small volumes of up to 2 L. They provide cost-efficient, rapid, easily controlled and safe reactions in various fields of chemical research and development. Applications include small-scale chemical synthesis, research and development of chemical and pharmaceutical products, kinetic studies and reaction analysis, continuous flow chemistry research, automation experimentation, and green chemistry research.



## Compact Premium Minireactors for synthesis in liquid phase with mechanical stirring and electrical heating

Aluminium block for fast, homogenous heating with groove for internal visibility.

Electrical heating from +15 to 250 °C with PT100 sensor.

Reaction vessels from 50 ml to 2 litres.

Mechanical stirring.

Stirrer bearing with quick motor coupling.

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).

Easy internal access.

Quick release tool-free vessel clamp made of stainless steel.

USB port for datalogging.

Colour touch screen.

Autotuning function.

Technical specifications:

- Temperature range: ambient +15°C to 250°C (0,5 °C intervals)
- Power: 800W (hotplate) and 50W (stirrer)
- Stirring speed range: 100 to 700 rpm\* controlled by microprocessor (25 rpm intervals)
- Up to 10 programs of 6 segments (Temperature, speed and time)
- Pressure range: from 5mb to 0.7 bar overpressure
- Colour touch screen with real-time temperature and stirring graphics
- Overheating protection: automatic safety shutdown
- USB port for datalogging
- Dimensions: 276x315 mm
- Minimum height: 635 mm (885 mm for 5 l minireactor)
- Maximum height: 935 mm (1150 mm for 5 l minireactor)
- Power supply: 220V, 50-60 Hz

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

#### **Description**

Premium minireactor with mechanical stirring and heating of 1000ml**Joint diameter (inch)**

**4Pack (u.)**

1

#### **Reference**

[PHMER/1000](#)

#### **Packaging**

x u.

#### **Description**

Premium minireactor with mechanical stirring and heating of 2000ml**Joint diameter (inch)**

**4Pack (u.)**

1

#### **Reference**

[PHMER/2000](#)

#### **Packaging**

x u.

#### **Description**

Premium minireactor with mechanical stirring and heating of 500ml**Joint diameter (inch)**

**3Pack (u.)**

1

#### **Reference**

[PHMER/5003](#)

#### **Packaging**

x u.

#### **Description**

Premium minireactor with mechanical stirring and heating of 500ml**Joint diameter (inch)**

**4Pack (u.)**

1

#### **Reference**

[PHMER/5004](#)

#### **Packaging**

x u.

#### **Description**

Premium minireactor with mechanical stirring and heating of 100ml**Joint diameter (inch)**

**2,5Pack (u.)**

1

#### **Reference**

[PHMER0/100](#)

#### **Packaging**

x u.

#### **Description**

Premium minireactor with mechanical stirring and heating of 250ml**Joint diameter (inch)**

**3Pack (u.)**

1

#### **Reference**

[PHMER0/250](#)

#### **Packaging**

x u.

#### **Description**

Premium minireactor with mechanical stirring and heating of 50ml**Joint diameter (inch)**

**2,5Pack (u.)**

1

#### **Reference**

[PHMER00/50](#)

## Packaging

X U.

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## Components for Premium compact minireactor vessels

### Common components for premium minireactors

#### Description

Temperature probe Pt100 with 3 pins connector**Pack (u.)**

1

#### Reference

[00PMRPT100](#)

#### Packaging

X U.

#### Description

Stainless Steel traction piece for stirring shaft**Pack (u.)**

1

#### Reference

[0ARRASMINI](#)

#### Packaging

X U.

#### Description

Temperature probe Pt100 with 2LEMO connector for Premium minireactor with jacketed reactor and cable with 3-pin connector**Pack (u.)**

1

#### Reference

[0JPMRPT100](#)

#### Packaging

X U.

#### Description

Control panel with touch screen and protection tray for splashes**Pack (u.)**

1 **Reference**

[0JPMRPT10](#)

[0](#) **Packaging**

X U.

#### Description

Control panel with touch screen and heating plate**Pack (u.)**

1

**Reference**  
[500-0PHMER](#)  
**Packaging**  
x u.

**Description**  
Telescopic stand 25 mm Ø **Pack (u.)**  
1

**Reference**  
[500TUBTELE](#)  
**Packaging**  
x u.

**Description**  
Telescopic stand 25 mm Ø. Longer version **Pack (u.)**  
1

**Reference**  
[50GTUBTELE](#)  
**Packaging**  
x u.

**Description**  
Mechanical stirrer with aluminium case and 2 mts cable (40 - 400 rpm) **Pack (u.)**  
1

**Reference**  
[50PMRMOT52](#)  
**Packaging**  
x u.

**Description**  
Mechanical stirrer with aluminium case and 2 mts cable (100 - 700 rpm) **Pack (u.)**  
1

**Reference**  
[50PMRMOT53](#)  
**Packaging**  
x u.

**Description**  
Connection cable for temperature probe 0JPMRPT100 to recirculation bath **Pack (u.)**  
1

**Reference**  
[CABLEXRPMR](#)  
**Packaging**  
x u.

**Description**

PTFE guide piece for temperature probe 8,12x12mm ØPack (u.)

1

**Reference**

[GUIAPTPEPM](#)

**Packaging**

x u.

## Aluminium heating blocks for standard reactors

**Description**

Aluminium heating block for 50 ml. ReactorPack (u.)

1

**Reference**

[500MRCAL50](#)

**Packaging**

x u.

**Description**

Aluminium heating block for 100 ml. ReactorPack (u.)

1

**Reference**

[50MRCAL100](#)

**Packaging**

x u.



**Description**

Aluminium heating block for 250 ml. Reactor**Pack (u.)**

1

**Reference**

[50MRCAL250](#)

**Packaging**

x u.

**Description**

Aluminium heating block for 500 ml. Reactor**Pack (u.)**

1

**Reference**

[50MRCAL500](#)

**Packaging**

x u.

**Description**

Aluminium heating block for 1000 ml. Reactor**Pack (u.)**

1

**Reference**

[5MRCAL1000](#)

**Packaging**

x u.

**Description**

Aluminium heating block for 2000 ml. Reactor**Pack (u.)**

1

**Reference**

[5MRCAL2000](#)

**Packaging**

x u.

## Aluminium heating blocks for premium reactors



### Description

Aluminium heating block for 50 ml reactor**Pack (u.)**

1

### Reference

[50PMRCAL50](#)

### Packaging

x u.



### Description

Aluminium heating block for 100 ml reactor**Pack (u.)**

1

### Reference

[5PMRCAL100](#)

### Packaging

x u.



### Description

Aluminium heating block for 250 ml reactor**Pack (u.)**

1

### Reference

[5PMRCAL250](#)

### Packaging

x u.

### Description

Aluminium heating block for 500 ml reactor**Pack (u.)**

1

### Reference

[5PMRCAL500](#)

## Packaging

x u.



### Description

Aluminium heating block for 1000 ml reactor

**Pack (u.)**

1

### Reference

[PMRCAL1000](#)

### Packaging

x u.



### Description

Aluminium heating block for 2000 ml reactor

**Pack (u.)**

1

### Reference

[PMRCAL2000](#)

### Packaging

x u.

## Glass reaction vessels

### Description

Glass reaction vessel 50ml with joint 2'1/2"

**Pack (u.)**

1

### Reference

[500-0MRR50](#)

### Packaging

x u.

### Description

Glass reaction vessel 100ml with joint 2'1/2"

**Pack (u.)**

1

### Reference

[500-MRR100](#)

### Packaging

x u.

### Description

Glass reaction vessel 250ml with joint 3'**Pack (u.)**

1

### Reference

[500-MRR250](#)

### Packaging

x u.

### Description

Glass reaction vessel 500ml with joint 3'**Pack (u.)**

1

### Reference

[500MRR5003](#)

### Packaging

x u.

### Description

Glass reaction vessel 500ml with joint 4'**Pack (u.)**

1

### Reference

[500MRR5004](#)

### Packaging

x u.

### Description

Glass reaction vessel 1.000ml with joint 4'**Pack (u.)**

1

### Reference

[50MRR10004](#)

### Packaging

x u.

### Description

Glass reaction vessel 2.000ml with joint 4'**Pack (u.)**

1

### Reference

[50MRR20004](#)

### Packaging

x u.

## Glass reaction vessels jacketed with drain valve



### Description

Glass reaction vessel jacketed with drain valve 50ml**Pack (u.)**

1

**Reference**[500MRRTD50](#)**Packaging**

x u.

**Description**Glass reaction vessel jacketed with drain valve 1000ml with joint 4'**Pack (u.)**

1

**Reference**[5MRRTD1000](#)**Packaging**

x u.

**Description**Glass reaction vessel jacketed with drain valve 2000ml with joint 4'**Pack (u.)**

1

**Reference**[5MRRTD2000](#)**Packaging**

x u.

**Description**Glass reaction vessel jacketed with drain valve 500ml with joint 3'**Pack (u.)**

1

**Reference**[5MRRTD5003](#)**Packaging**

x u.

**Description**Glass reaction vessel jacketed with drain valve 500ml with joint 4'**Pack (u.)**

1

**Reference**[5MRRTD5004](#)**Packaging**

x u.



**Description**

Glass reaction vessel jacketed with drain valve 100ml**Pack (u.)**

1

**Reference**

[BRMRRTD100](#)

**Packaging**

x u.

**Description**

Glass reaction vessel jacketed with drain valve 250ml**Pack (u.)**

1

**Reference**

[BRMRRTD250](#)

**Packaging**

x u.

## Glass lids with 5 necks

**Description**

Flange lid 3' with 5 necks**Pack (u.)**

1

**Reference**

[500-00MRT3](#)

**Packaging**

x u.

**Description**

Flange lid 4' with 5 necks C-SAV-29 (Rodaviss)**Pack (u.)**

1

**Reference**

[500-00MRT4](#)

**Packaging**

x u.

**Description**

Flange lid 2'1/2 with 5 necks**Pack (u.)**

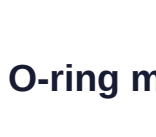
1

**Reference**

[500-0MRT25](#)

**Packaging**

x u.



## O-ring made of silicone and PTFE

**Description**

O-ring 3' made of silicone and PTFE**Pack (u.)**

1

**Reference**[500-00MRJ3](#)**Packaging**

x u.

**Description**O-ring 4' made of silicone and PTFE**Pack (u.)**

1

**Reference**[500-00MRJ4](#)**Packaging**

x u.

**Description**O-ring 2' 1/2 made of silicone and PTFE**Pack (u.)**

1

**Reference**[500-0MRJ25](#)**Packaging**

x u.

## Stirrer bearing for standard minireactors

**Description**Stirrer bearing for stirrer shaft 6 mm D. and NS 14,5**Pack (u.)**

1

**Reference**[500-0MRC14](#)**Packaging**

x u.

**Description**Stirrer bearing for stirrer shaft 6 mm D. and NS 29**Pack (u.)**

1

**Reference**[500-0MRC29](#)**Packaging**

x u.

## Stirrer bearing for premium minireactors

**Description**PEEK stirrer bearing for shaft 6 mm Ø and NS 29**Pack (u.)**

1

**Reference**[CIAGPEEK29](#)**Packaging**

x u.

## Stirring shaft anchor shaped made of Hastelloy® for standard minireactors

**Description**

Hastelloy® stirring shaft for reaction vessel 50/100ml. with coupling**Pack (u.)**

1

**Reference**

[500-0MRA50](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 250/500ml. with coupling**Pack (u.)**

1

**Reference**

[500-MRA250](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 500/1000ml with coupling**Pack (u.)**

1

**Reference**

[500-MRA500](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 2000ml with coupling**Pack (u.)**

1

**Reference**

[500MRA2000](#)

**Packaging**

x u.

## **Stirring shaft anchor shaped made of Hastelloy® for premium minireactors**

**Description**

Hastelloy® stirring shaft for reaction vessel 50 ml with coupling**Pack (u.)**

1

**Reference**

[500-PMRA50](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 100 ml with coupling**Pack (u.)**

1

**Reference**

[500PMRA100](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 250 ml with coupling**Pack (u.)**

1

**Reference**

[500PMRA250](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 500 ml flat flange 3' with coupling**Pack (u.)**

1

**Reference**  
[500PMRA500](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 1000 ml with coupling**Pack (u.)**

1

**Reference**  
[50PMRA1000](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 2000 ml with coupling**Pack (u.)**

1

**Reference**  
[50PMRA2000](#)

**Packaging**

x u.

**Description**

Hastelloy® stirring shaft for reaction vessel 500 ml flat flange 4' with coupling**Pack (u.)**

1

**Reference**  
[50PMRA5004](#)

**Packaging**

x u.

**Flange closure and supporting device made of stainless steel**



**Description**

Flange closure and supporting device for 3'**Pack (u.)**

1

**Reference**  
[500-00MRS3](#)

**Packaging**

x u.



**Description**

Flange closure and supporting device for 4'**Pack (u.)**

1

**Reference**  
[500-00MRS4](#)

**Packaging**

x u.



**Description**

Flange closure and supporting device for 2'1/2**Pack (u.)**

1

**Reference**  
[500-0MRS25](#)

**Packaging**

x u.

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## Premium minireactor with mechanical stirring and jacketed reaction vessel

Jacketed reaction vessels from 50 ml 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 customisable 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).

Easy internal access.

Quick release tool-free vessel clamp made of stainless steel.

USB port for datalogging.

Colour touch screen.

Autotuning function.

Technical specifications:

- Temperature range: depending on the circulating bath to which it is connected
- Power: 50 W (stirrer)
- Stirring speed range: 100 to 700 rpm\* controlled by microprocessor (25 rpm intervals)
- Up to 10 programs of 6 segments (Speed and time). Temperature: only register
- Pressure range: from 5 MB to 0.7 bar overpressure
- Colour touch screen with real-time temperature and stirring graphics
- Overheating protection: automatic safety shutdown
- USB port for datalogging
- Dimensions: 276x315 mm
- Minimum height: 635 mm (885 mm for 5 l minireactor)
- Maximum height: 935 mm (1150 mm for 5 l minireactor)
- Power supply: 220V, 50-60 Hz

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

\*\* This model does not include temperature probe.

### Description

Premium minireactor with mechanical stirring and jacketed reaction vessel of 1.000ml **Joint diameter (inch)**

**4Pack (u.)**

1

**Reference**

[PMR00/1000](#)

**Packaging**

x u.

### Description

Premium minireactor with mechanical stirring and jacketed reaction vessel of 2.000ml **Joint diameter (inch)**

**4Pack (u.)**

1

**Reference**

[PMR00/2000](#)

**Packaging**

x u.

**Description**

Premium minireactor with mechanical stirring and jacketed reaction vessel of 500ml

**Joint diameter (inch)**

**3Pack (u.)**

1

**Reference**

[PMR00/5003](#)

**Packaging**

x u.

**Description**

Premium minireactor with mechanical stirring and jacketed reaction vessel of 500ml

**Joint diameter (inch)**

**4Pack (u.)**

1

**Reference**

[PMR00/5004](#)

**Packaging**

x u.

**Description**

Premium minireactor with mechanical stirring and jacketed reaction vessel of 100ml

**Joint diameter (inch)**

**2,5Pack (u.)**

1

**Reference**

[PMR000/100](#)

**Packaging**

x u.

**Description**

Premium minireactor with mechanical stirring and jacketed reaction vessel of 250ml

**Joint diameter (inch)**

**3Pack (u.)**

1

**Reference**

[PMR000/250](#)

**Packaging**

x u.

**Description**

Premium minireactor with mechanical stirring and jacketed reaction vessel of 50ml

**Joint diameter (inch)**

**2,5Pack (u.)**

1

**Reference**

[PMR0000/50](#)

**Packaging**

x u.

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