



Universal reactor for laboratory "RV-12"

ADAPTABLE TO ALL THE STANDARDIZED GLASS ELEMENTS WITH A MOUTH OF 100 MM Ø.
REACTOR CAPACITY: 12 LITRES.

APPLICATIONS

Universal reactor suitable for all laboratory and pilot plant's operations.

FEATURES

Standard mouth for connection to DN100 glass reactor's covers.
Reactor in stainless steel AISI 316, with a capacity of 12 litres and with a drain tap.

STANDARD EQUIPMENT

1. **Standard support.** Part No. **1001748**
2. **Clamp with support ring** for the reactor. Part No. **1001747**
3. **Reactor** in stainless steel AISI 316, capacity 12 litres with drain tap. External sizes: Height 38 cm. x 25 cm. Ø. Weight: 4,5 Kg Part No. **1001746**

COMPLEMENTS

4. **Clasp** for fastening normalized flat gaskets for reactor "RV-12" or any glass reactor with normalized mouth of 100 mm. Ø. Part No. **1001758**
5. **Stirrer RZR-1** with adjustable speed. Part No. **5050111**
6. **Double bosshead MAXIM.** Part No. **7000408** or **Clamp** Part No. **1001765**
7. **Flexible shaft holder** for 8 mm. Ø stirring shaft. Part No. **5050903**
8. **Half-moon shape stirring shaft**, 8 mm. Ø stainless steel AISI 304 (length 90 x shovel width 12 cm). Part No. **1001754**
9. **Helix shape stirring shaft**, 8 mm. Ø stainless steel AISI 304 and PTFE shovel (length 90 x shovel width 4 cm). Part No. **1001757**
10. **Electronic controller ELECTEMP-TFT.** Part No. **3000897** with connector for inner temperature control, if the heating mantle is used.
11. **Support plate** with bosshead for Electemp-TFT regulator. Part No. **1001750**
12. **Pt100 probe** Part No. **1001749** 200 mm length x 4 mm. Ø, with connection cable to Electemp-TFT regulator.
13. **Ring holder** with double bosshead for heating mantle. Part No. **1001751**
14. **Heating mantle** with double heating elements for temperatures up to 400 °C. Power consumption 1400W. Part No. **3001752**

OPTIONAL

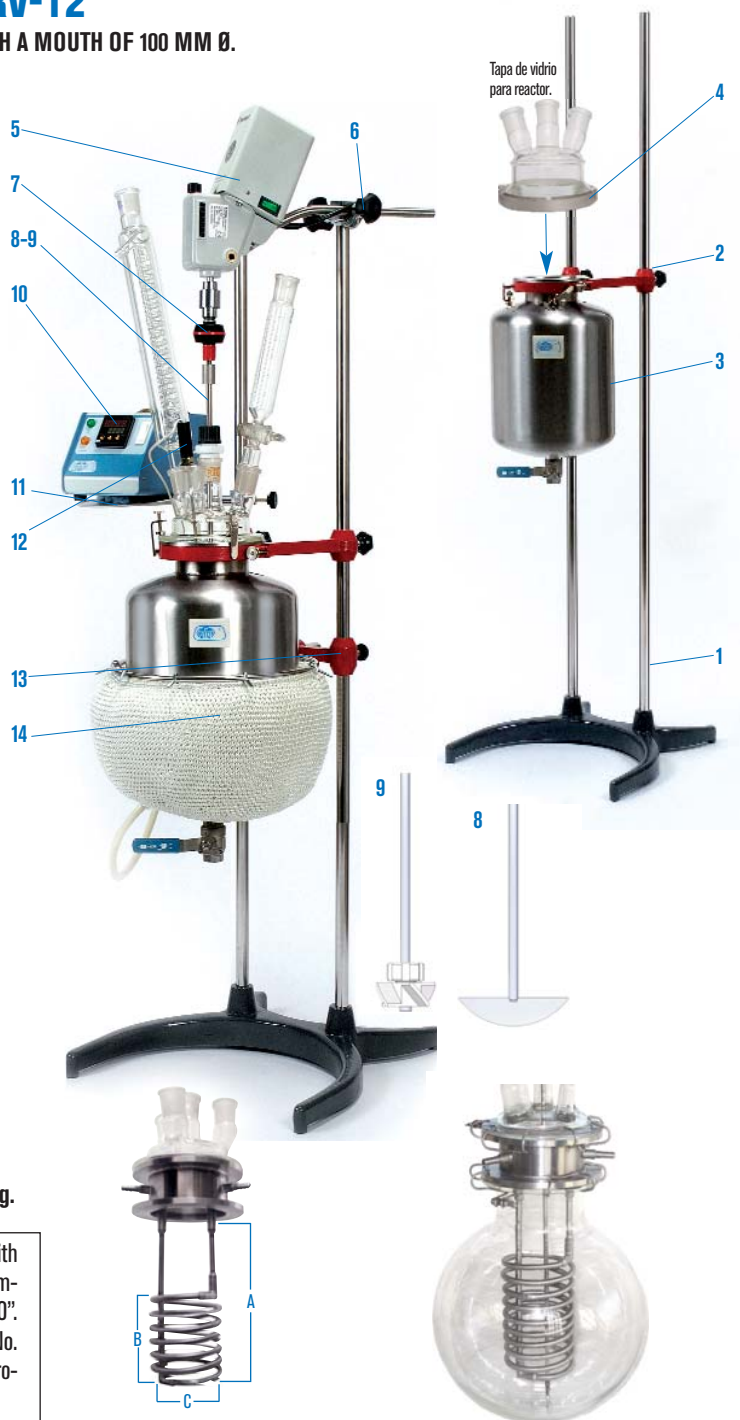
Aisi 316 stainless steel device, with standard double mouth and coll for liquid heating or refrigeration inside the reactor.

This device can be connected to the universal reactor part no. 1001746 or to glass reactors with a 10 l. capacity and with DN-100 standard mouth.

Coil measurement: A: 21 cm. B: 15 cm. C: 10 cm. Part No. **1001755**

For reactors higher than 40 cm., it must be manufactured according to drawing.

Note: Several tests have been made in the laboratory with the silicone oil "47V50" and with the **Ultraterm-TFT-300 thermostat.** Part No. **3000545** (See page 103), reaching temperatures up to 170 °C in 35' inside the reactor properly isolated with "durablanket120". With methanol fluid transmitter liquid and with **Frigiterm-TFT-30 thermostat.** Part No. **3000547** (see page 103), reaching temperatures up to -21 °C in 57' inside the reactor properly isolated with "durablanket120".



Customizable reactors on demand

FOR LABORATORY AND PILOT PLANT WITH HEATING AND COOLING SYSTEMS

BOROSILICATE GLASS 3.3. CAPACITY: FROM 0,5 UP TO 20 LITRES.

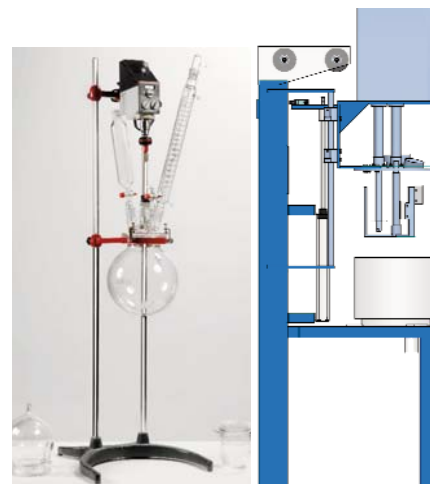
AISI 304 - 316 - 316L STAINLESS STEEL LITRES CAPACITY: FROM 20 UP TO 100 LITRES.

Borosilicate glass 3.3: Spherical, cylindrical and thermostatic with or without PTFE release valve with temperature control accessories, PH, oxygen, turbidity, etc. Heidolph stirring systems and variable PTFE blades.

Aisi 304 - 306 - 306 stainless steel: Cylindrical and thermostatic with or without release valve. With temperature control accessories, PH, oxygen, turbidity, etc.

Fixed and variable stirring systems of different powers according to viscosity and density, combined with stirring elements, dispersers and emulsifiers micronizers and helical.

REQUEST INFORMATION.





Reactor for pilot plant "R-605" and "R-620"

CAPACITY UP TO 20 LITRES

APPLICATIONS

This equipment is designed for reflux and distillation operations with a stirring element, for all laboratory's pilot plant operations and small productions.

FEATURES

Reactor module built-in, made of glazed steel in epoxy, composed of an engine group stirring and a reaction borosilicate glass 3.3 with graduation and dual Camera to temper, for a volume of 4-20 liters in "R-620" model and 1-5 liters in "R-605" model. Stirring anchor blade and elements in contact with the liquid or reaction steam, composed of borosilicate glass and PTFE.

R-605 model addition and reflux. Distillation system on demand.

Reactor for multiple reactions: add PTFE tap Part No. **1001752**, support Part No. **1001744** and digital thermometer Part No. **5903030** or pH analyser/Redox and temperature Part No. **4120800**.

CONTROL PANEL

Main switch ON / OFF.

Regulator knob for stirring speed from 0 to 800 rpm, and with digital reading.

MODELS

| Part No. | Total dimensions Height / Width / Depth | Reactor capacity | Operating temperature | Power W | Weight Kg |
|----------------|--|---------------------|--------------------------|------------|--------------|
| 1001705 | 130 70 35 | 5 | -30 °C to 200 °C | 90 | 10 |
| 1001745 | 180 62 50 | 20 | -30 °C to 200 °C | 250 | 68 |



"R-605" model
5 litres.



"R-620" model
20 litres.

ACCESSORIES

pH analyser/Redox and temperature from -10°C up to 130°C. Backlit graphic display. For pH/ ORP measurement, temperature by probe measurement, temperature automatic compensation. 1 relay output for alarm or temperature, 1 relay output for electrode wash or temperature. pH measurement: 00.00÷14.00Ph.

Redox ±1500Mv± 1Mv. Part number **4120800**

HT glass sensor pH 0-14 +Temp -10 to 100°C. Part number **4120801**

Glass sensor adapter for R-605. Part number **4120802**

Glass sensor adapter for R-620. Part number **4120803**

Digital thermometer "TC-9226-A"

Temperature range: -200 °C. to 1370 °C.

Part No. **5903030**

Universal drain tap in PTFE and bellow for disposal of different density and viscosity liquid / liquid and liquid / solid suspensions.

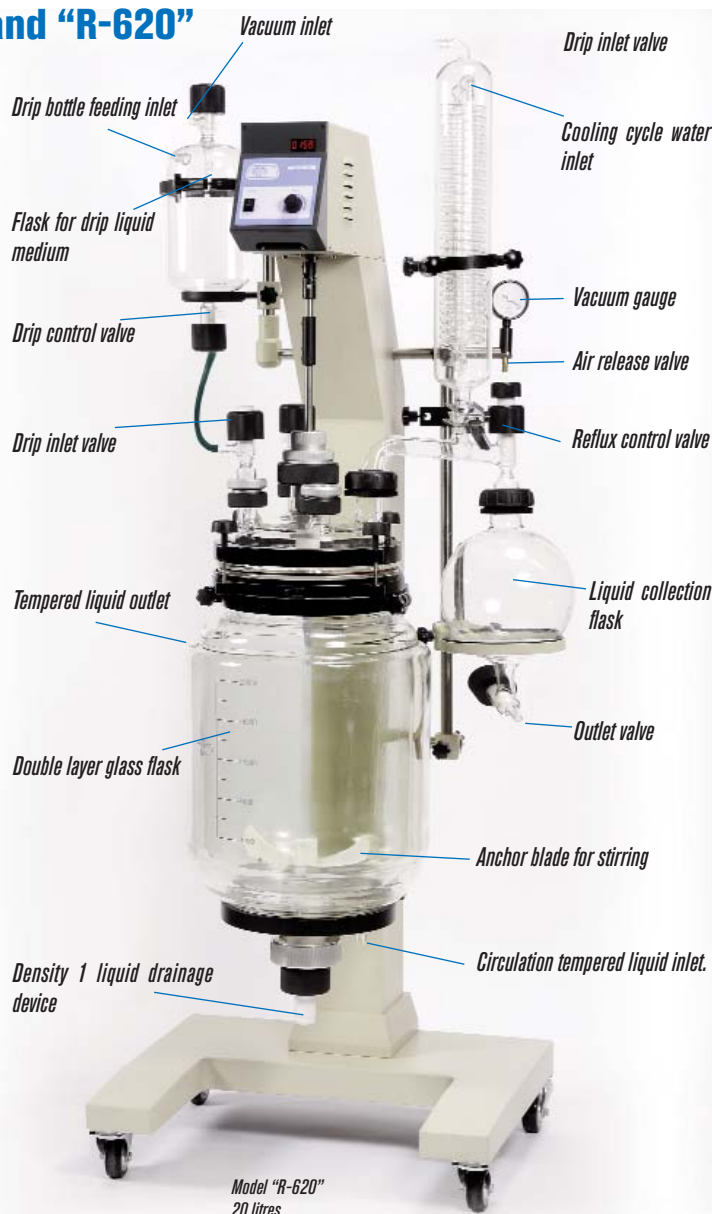
Part No. **1001753** for model RV-605.

Part No. **1001752** for model RV-620.

Over elevation support base.

Part No. **1001773** for model RV-605. Height 38 cm.

Part No. **1001744** for model RV-620. Height 65 cm.



Model "R-620"
20 litres.

COMPLEMENTS

Peristaltic dosing pump "Peristaltic PR-2003."

For PH stabilisation (acid-base).

Also applicable to dosages in process.

Features: See page 49. Part No. **4129050**

FOR REACTOR R-605:

Recirculation thermostat "Ulterm-TFT-200".

For adjustable temperatures from ambient +5 °C. to 200 °C.

Part No. **3000545** (See page: 103).

Recirculation cryothermostat "Frigiterm-TFT-30".

For adjustable temperatures from -30 °C. to 100 °C.

Part No. **3000547** (See page: 103).

FOR REACTOR R-620:

High power recirculation thermostat "Interheater"

For adjustable temperatures from ambient +5 °C. up to 90 °C.

Part No. **6001491** (See page: 107).

Water refrigerator and recirculator "Unichiller 015"

For temperatures from -20°C to +40 °C.

Part No. **5910027**



Unichiller 015

Interheater