Universal reactor for laboratory “RV-12”

ADAPTABLE TO ALL NORMALIZED GLASS ELEMENTS WITH 100 MM MOUTH.
REACTOR CAPACITY: 6 OR 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 AISI 316 stainless steel, with a capacity of 12 litres and with a drain tap.

STANDARD EQUIPMENT

1. **Standard support.** Part No. 1001748
2. **Reactor** in stainless steel AISI 316, capacity: 12 litres with drain tap. External sizes: Height 38cm x 25cm Ø. Weight: 4.5 Kg Part No. 1001746 or 6 litres with drain tap. External sizes: Height 28cm x 25cm Ø. Weight: 3 Kg. Part No. 1001726.
3. **Clamp with support ring** for the reactor. Part No. 1001747 + 1001974 for 10-20 litres.

COMPLEMENTOS

4. Addition graduated **funnel** of 250 ml. PTFE frosted wrench 29/32. Part No. 1001795.
5. **Frame** for stirrer clamping. Part No. 1001770
6. **HEI-Torque stirrer** with adjustable speed. Part No. 5016041
7. **PTFE stirrer guide**. Part No. 1001788
8. Double effect **Refrigerant** “Dimroth”. 30 cm de length. Part No. 1001792
9. **Electronic regulator ELECTEMP-TFT.** Part No. 3000897 with connector for internal emperature control, if the heating mantle is used.
10. **Support plate** with bosshead for Electemp-TFT regulator. Part No. 1001750
11. **Pt100 probe** Part No. 1001749 400 mm length x Ø 4 mm, with connection cable to Electemp-TFT regulator.
12. **5 mouths cove** type UK. Part No. 1001790
13. **Ring holder** with double bosshead for heating mantle. Part No. 1001751
14. **Heating mantle** with double heating element for temperatures up to 400°C. Power consumption 1400W. Part No. 3001752
15. **Double bosshead** MAXIM. Part No. 7000408 and clamp for refrigerant. Part No. 7000403
16. **Anchor shape stirring shaft**, Ø 9,5 mm in PTFE. (length 65 x shovel width 10 cm). Part No. 1001822
17. **Helix shape stirring shaft**, Ø 9,5 mm in PTFE. and PTFE shovel (length 65 x shovel width 7cm). Part No. 1001789
18. **Folding shovels stirring shaft**, Ø 9,5 mm in PTFE. (length 65 x shovel width 7cm). Part No. 1001859
19. **Clamp resistance** with internal ceramic insulation and AISI 304 stainless steel exterior. 400°C, 1500W power consumption. Part No. 1001947

High vacuum grease. Dow Corning. -40 to +200ºC. For pressures up to 10-6 mm Hg use. Part No. 1001915

20. **PTFE expansion/contraction bellows** for coupling between mouth and coolant. Part No. 1001825

Faucet in PTFE frosted 29/32. Part No. 1001793
Adapter set for PT100 probe. Frosted 14/23. Part No. 1001933
Adjust 29/32 to olive 12mm for coolant and funnel. Part No. 1001794
Stopper 29/32 for lid and funnel. Part No. 1001796
For DN150 type GR reactors:
Standard support for frame and clamp. Part No. 1001748

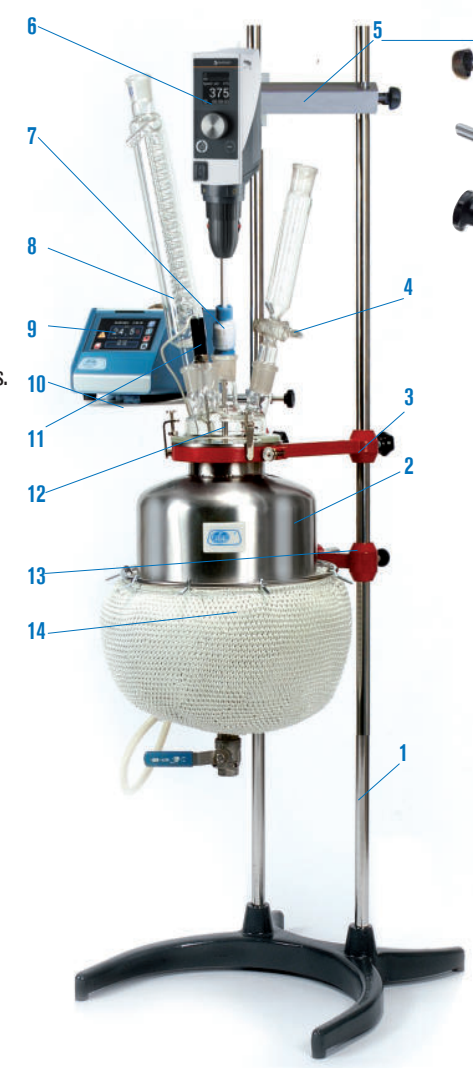
21. **Clamp** for DN150 type GR reactors subjection. Part No. 1001787
22. **Frame for clamp** Supplied with two AISI 304 stainless steel bars Ø 20mm and 500 mm length. Part No. 1001767

OPTIONAL

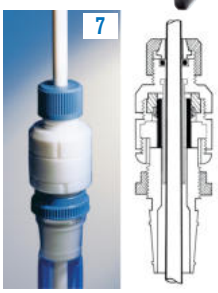
23. . AISI 304 stainless steel device, with double standard mouth and coil for heating or cooling the liquid inside the reactor. Coil measures: A: 26 cm. B: 15 cm. C: 10 cm. Part No. 1001755

This device can be coupled to the universal reactor Part No. 1001746.
Note: To be able to hold the Part No. 1001755 to the reactor, a ring holder Part No. 1001758 and a clamp bracket set Part No. 1001852 is necessary.

Note: By using the coil (23) laboratory tests have been carried out with silicone oil “47 V50” (Part No. 1000027 4 litres) and with **Ultraterm-TFT-200** thermostaat. Part No. 3000554 (See page. 106) reaching temperatures up to 170ºC in 35’ inside the reactor properly insulated with “durablanket120”. With the methanol fluid transmitter liquid and the **Frigiterm-TFT-30** thermostat. Part No. 3000553 (See page. 106)temperatures up to -21ºC have been reached in 57’ inside the isolated reactor with “durablanket120”.













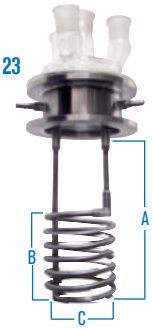












Vacuum filtration system type "Nutsche". **Consult**

