Rotary Evaporator EVI 67/1 with WATER BATH EVI 91

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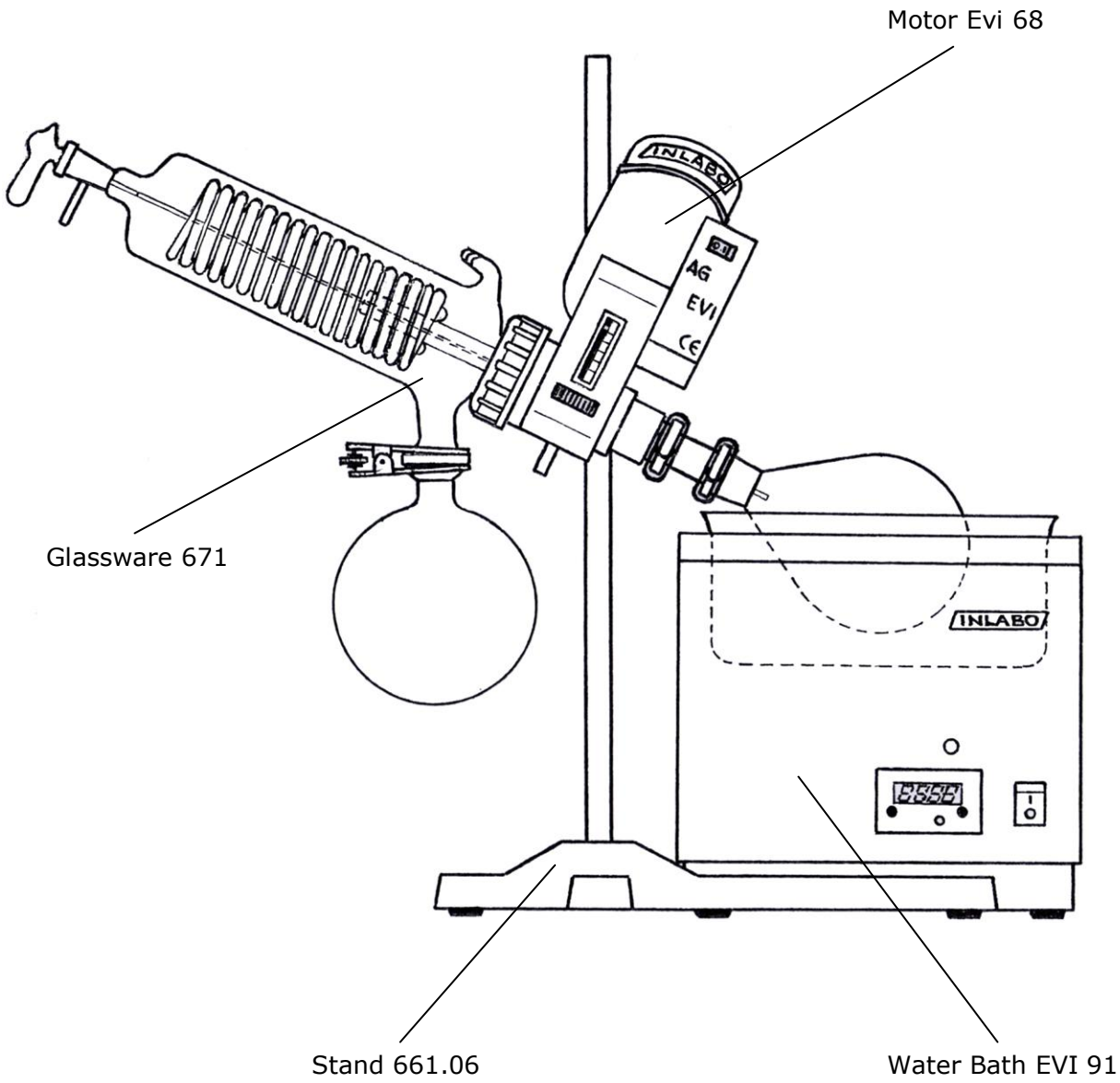
CE

Assemby

1. Set all the elements as indicated in pic. 1 (page 4).
2. The vertical stainless rod must be inserted in the lateral hole of the stand (the other hole is closed by a plug).
3. The inclination advised by the glassware is of 25° (corner formed by the axle of the vapor tube and the horizontal plane). Other angle shots are possible.
4. Target the rotating flask (pear-shape of cc1000) in the water bath leaving a space of at least 30 mm between the flask and the bottom of the bath. Pour 3,4 litres of water in the bath. Add water during working if necessary.

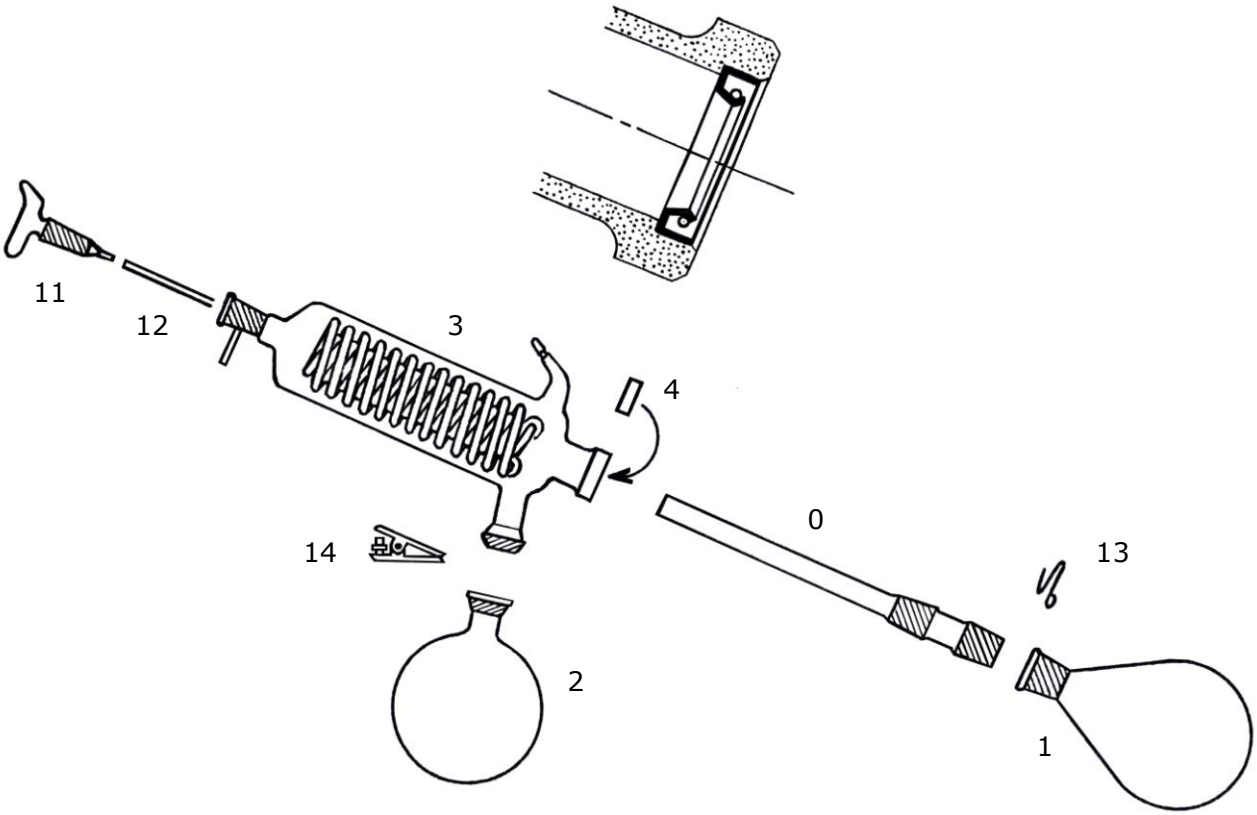
Safety

- The use of the rotary evaporator needs the maximum attention and prudence.
- It is useful to know if there are inflammable and explosive substances.
- Do not forget you are working with vacuum.
- Protection: use glasses, gloves and an appropriate working cloths.
- Before connecting the device (motor EVI68 and water bath EVI 91) at the 230V 50Hz electricity, ensure a safe earthing of the power points.


Motor Evi 68
Glassware 671
Stand 661.06
Water Bath EVI 91
INLABO
AG
EVI
INLABO

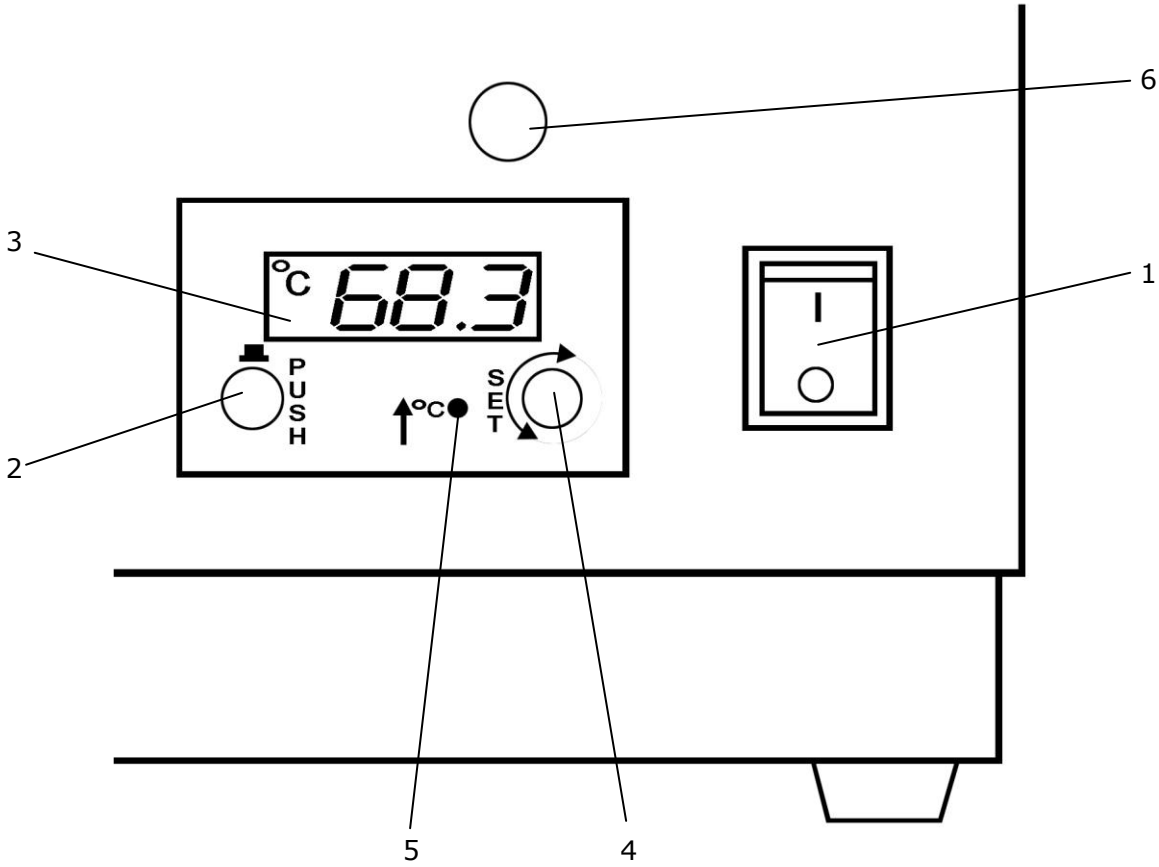
pic. 1

GLASSWARE 671



0	671.00	Vapour tube
1	671.01	Evaporation flask cc 1000
2	671.02	Receiver flask cc 1000
3	671.03	Condenser
4	2032/7V	Sealing ring Viton/PTFE
11	671.11	Stopcock for feeding and venting
12	671.12	PTFE tubing
13	671.13	Clip for conical joint 29/32
14	671.14	Clip for spherical joint 35/20

FRONT PANEL



1 Power supply O-I

2 Push botton set point

3 Temperature display

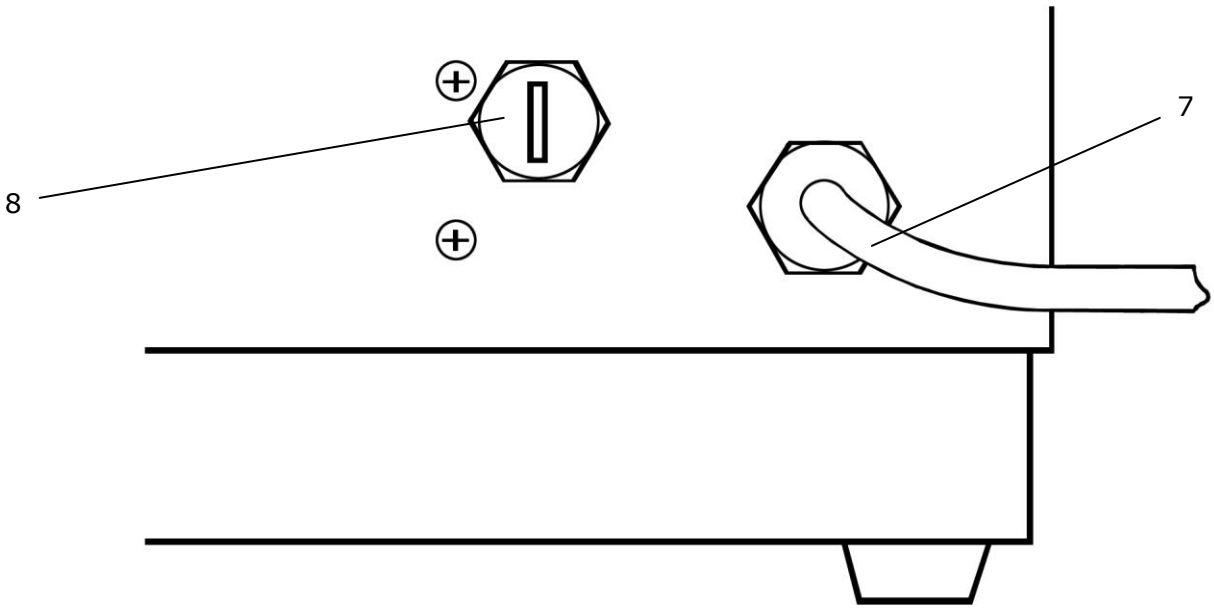
4 Knob set point

5 Red working led thermostat

6 Neon indicator (green) phase of heating

SET POINT The temperature can be adjusted by pressing the bottom (2) placed on the left of the regulator and rotating the knob (4) on the right till the right temperature us visualzed.

BACK SIDE



7 Power cable

8 Push bottom manual reset limit thermostat

- The heating automatically interrupts if the bath overheats because of the overcoming of the maximum allowed temperature (100°C + 0 – 6°K) and because of insufficient quantity of water in the bath.
- The intervention of the temperature thermostat limiter is pointed out when the working regulation thermostat red led (5 page 6) is on and the heating warning green light (6 page 6) is off at the same time.
- Wait for the cooling of the bath and in case pour water, empty out the lid (8) and push the little switch all the way to rearm the thermostat limiter.

OTHER INSTRUCTIONS FOR USE:

Warning: the correct working of the rotary evaporator depends on its correct assembling; verify to execute these instructions correctly.

1. **EVI 68 MOTOR**:

   speed regulation through knurled knob, control index on graduated scale.
   The speed regulation must be regulated only when the EVI 68 motor is in function.

2. **EVI 91 WATER BATH**:

   - Item set-up: (pic. 1) pag. 4 and pag. 3
   - Adjust hot bath temperature: front panel pag. 6
   - Safety: back side pag. 7

   Never run hot bath dry

3. **VACUUM TIGHTNESS**:

   check the sealing ring (2032/7). A weared out sealing ring does not allow a good evaporation process, damaging the EVI 68 motor.
   To guarantee proper vacuum tightness, we recommend to coat all ground mating surfaces with laboratory quality silicone grease, another option would be use of PTFE inserts.

SPECIFICATIONS

1. **EVI 68 MOTOR**:

- Single phase induction with condenser
- Input power 70 Watt, output 30 power Watt
- Silent operation, overheating protection
- Requires no particular mantenance
- Power supply 230V 50Hz
- Speed continuously regulation from 35 to 250 r.p.m.
- The trasmitted power is steady regardless the rotation speed, which is consequently very stable

This motor has been tested for a long time in different conditions showing its complete reliability.

2. **STAND 661.06**:

- Big stand, H shaped, 45x40 cm, cast iron painted, weight 12 kg
- No tip up, no slippery, level screw
- Rod inox AISI 304, diam. 16 mm height 600 mm
- 2 positions for rod inox

3. **CLAMP 662.05**:

- Anticorodal alloy painted
- Safe and fast clamping (for diam. 12 mm. and 16 mm.)

4. **GLASSWARE 671**:

with diagonal (oblique) condenser glassware. For simple distillation of organic solvents.

The vapour, originated in the distillation (rotary) flask (671.01) flows trough the passing tube (671.00) and reaches the condenser (671.03) which coils are water-coaled. After condensation the solvent is directed into a receiver collecting flask (671.02). One stopcock (671.11) is provided, for continuous feeding of the evaporation flask (671.01) and for venting or attacking to a vacuum line.

5. **WATER BATH EVI91**:

- Built in stainless steel AISI 304 with a double side both, insulation with glass fibre, for a better thermic isolation from the heating element and for protect from scorches
- Bath completely free inside and easy to clean
- Bath diameter 240 mm, stainless steel AISI 304/L (18/10)
- Capacity 4,3 litres
- Suitable for flasks up to 3 litres
- Power requirements: 230V 50 Hz 1200 Watt
- Power switch O-I
- ON/OFF thermostat for electronic temperature regulation with red working led thermostat
- Neon indicator (green) phase of heating
- Regulation accuracy: -1 °C/+2 °C
- Control range 20 °C – 95 °C.
- Display: - 50 °C + 150 °C.
- Safety: limit temperature 100 °C (+0/-6 °K) with limit thermostat, manual reset.
- Size: mm 288x276x288.
- Weight: Kg 10.

6. **VACUUM TIGHTNESS**: better than 1 mbar

7. **DIMENSION**: 75 cm widht
61 cm height
75 cm depth

8. **WEIGHT**: 28 kg

Specifications subject to change without notice.