

Quick guide

VWR[®] LCD Digital Rotary Evaporator

European Catalogue Number(s):

531-1368	LCD Rotary Evaporator
531-1382	Heating bath of LCD Rotary Evaporator
531-1375	Glassware set V17
531-1376	Glassware set V17C
531-1378	Glassware set D17
531-1380	Glassware set V12

Safety Instruction

- Ensure that only trained staff work with the appliance.
- Wear your personal protective equipment in accordance with the hazard category of the medium to be processed. Otherwise there is a risk of:
 - splashing liquids,
 - body parts, hair, clothing and jewelry getting caught,
 - injury as a result of glass breakage.
- CAUTION! Inhalation of or contact with media such as poisonous liquids, gases, spray mist, vapor, dusts or biological and microbiological materials can be hazardous to user.
- Beware of hazards due to:
 - flammable materials,
 - combustible media with a low boiling temperature,
 - glass breakage.
- CAUTION! Only process and heat up media that has a flash point higher than the adjusted safe temperature limit of the heating bath that has been set.
- CAUTION! Avoid peroxide formation. Organic peroxides can accumulate in distillation and exhaust residues and explode while decomposing!
- DANGER OF BURNING! The heating bath, tempering medium, evaporator piston and glass assembly can become hot during operation and remain so for a long time afterwards! Let the components cool off before continuing work with the device.
- ATTENTION! Avoid delayed boiling! Never heat the evaporating flask in the heating bath without switching on the rotary drive!

Sudden foaming or exhaust gases indicate that flask content is beginning to decompose. Switch off heating immediately. Use the lifting mechanism to lift the evaporator piston out of the heating bath. Evacuate the danger zone and warn those in the surrounding area!

- **CAUTION!** Never operate the device when the evaporator piston is rotating and the lift is raised. Always lower the evaporator piston into the heating bath first before starting the rotation drive. Otherwise hot tempering medium may be sprayed out!

Installation

Adjust the base to sit the instrument level on the bench top (Figure 1).

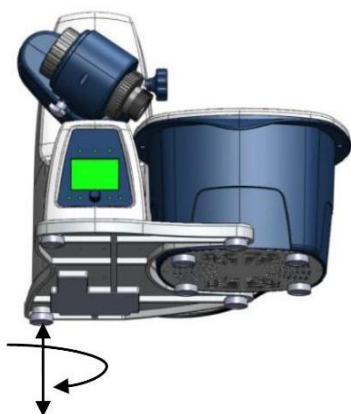


Figure 1

CAUTION! Loosen transportation lock Figure 2). Hold the lift with your hand on the height position and remove the thumb screw on the back of the appliance (a).

Once the transportation lock has been removed, the lift moves slowly to its upper end position. The distance is 150mm.

Connect the device to the power supply using power cable (b).

Connect the heating bath to the device (c).

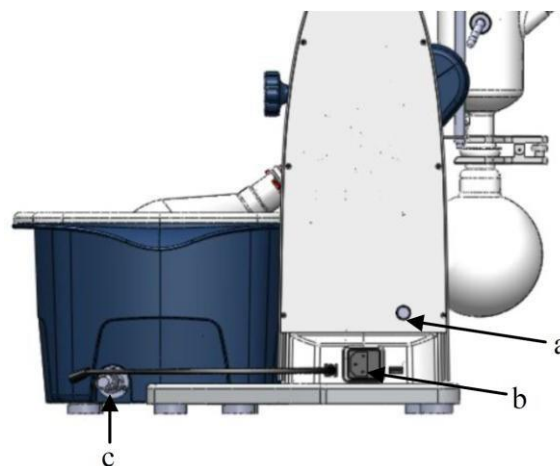


Figure 2

Remove the clamping device for the angle setting of the rotation drive on the right side of the lift by rotating the knurled screw (d) counterclockwise. Set the drive at an angle of ~30° (Figure 3) Then secure the rotation drive from being accidentally turned by tightening the knurled screw in a clockwise direction.

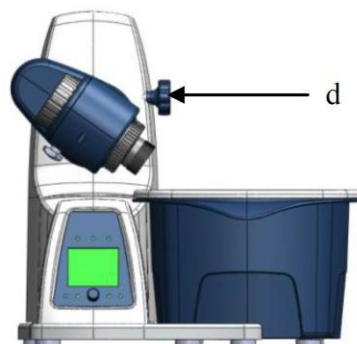


Figure 3

Open the locking device on the drive head by turning it 60° counter clockwise (e), (Figure 4).

Feed the steam pipe in until it stops.

Then lock the locking device by turning it clockwise by 60°.

The plastic screw nut (f) helps loosen tight-fitting piston ground-in connections (Figure 4).

Hold the tight-fitting evaporator piston and counter clockwise (e), and then turn the plastic screw nut (f) until the evaporator piston neck.

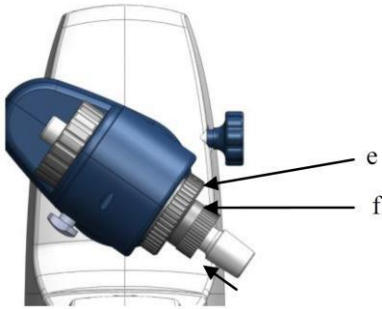


Figure 4

Note: Prior to commissioning, hand-tighten the plastic screw nut (f) left-aligned.

Installing condenser seal (Figure 5 and Figure 6).



Figure 5

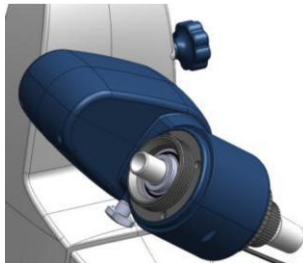


Figure 6

Installing condenser (g) (Figure 7 and Figure 8).

- Load the cap nut (h) and locking spring (i) to condenser in turn.
- Tighten the cap nut hand-screwed (h). Start the device at 200 rpm for 2 min. Then tighten the cap nut firmly.

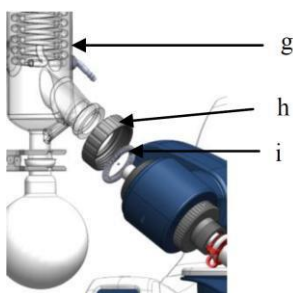


Figure 7



Figure 8

Installing the vertical glassware condenser locking device (Figure 9). Use the transportation screw on the back of the appliance (a)

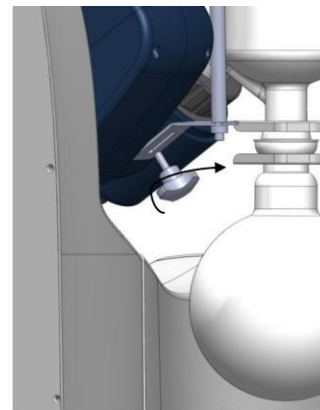


Figure 9

Connecting tubes (Figure 10).

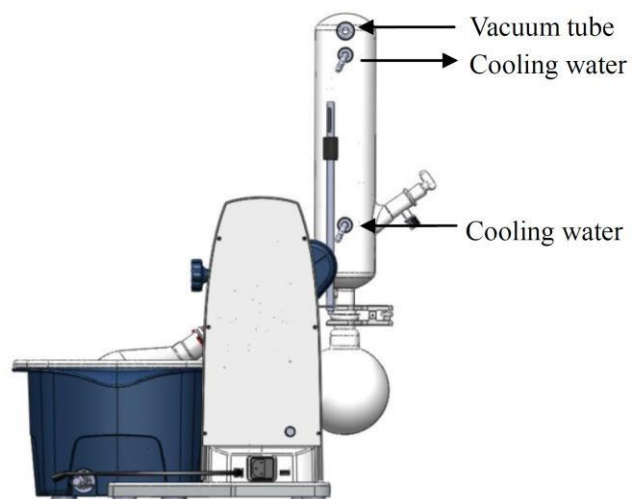


Figure 10

Control

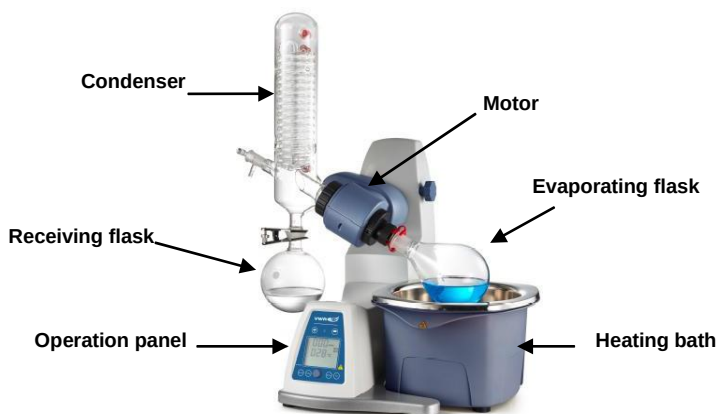


Fig. 1

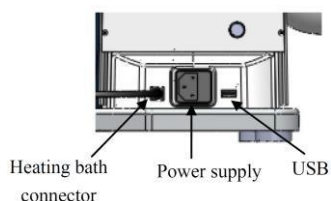


Fig. 2

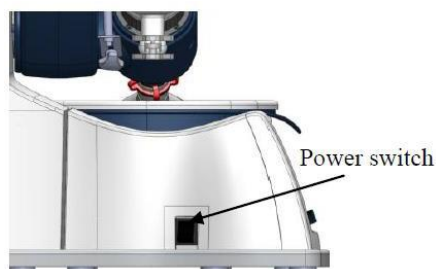


Fig. 3

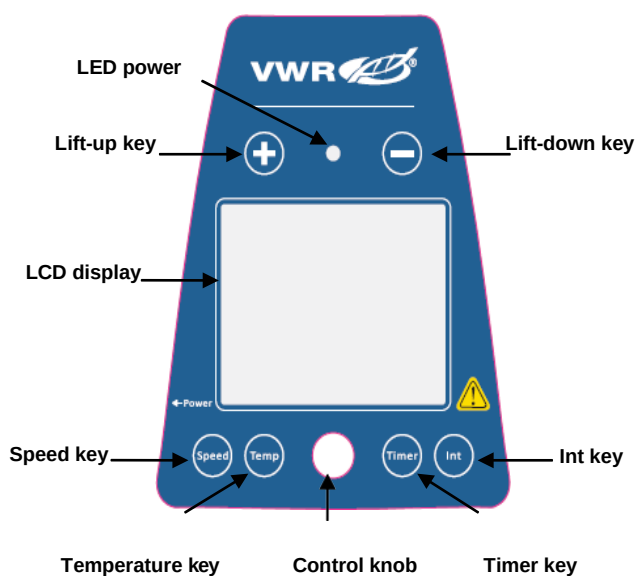


Fig. 4

Name	Description
Speed key Speed	Push the key and then rotate control knob to set the rated speed in the range from 20 to 280.
Temperature key Temp	Push the key and then rotate control knob to set the rated temperature in the range from room temperature to 180°C.
Timer key Timer	Push the key and then rotate control knob to set the rated time in the range from 1 to 999min.
Int key Int	Push the key and then rotate control knob to set the interval for right-left running in the range from 1 to 999s.
Control knob	Clockwise rotate to increase program values. Rotate anti-clockwise to decrease program values. Press the knob, switch ON/OFF the unit.
Lift-up key	Press the key, the lift goes up. Release the key the lift stops and remains in that position.
Lift-down key	Press the key, the lift goes down. Release the key the lift stops and remains in that position.

Display

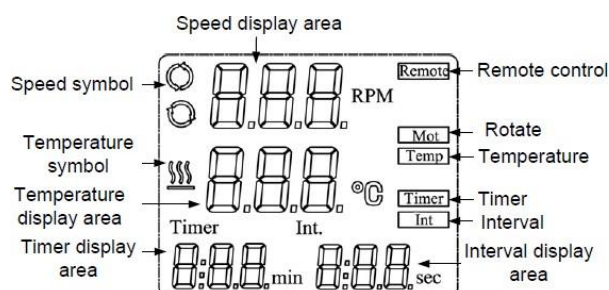


Fig. 5

For more details, please consult the full manual. Visit our web page vwr.com for contact details and other product information.