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# Vertical Condenser Rotary Evaporator

(20 Litre)

## Vertical Condenser Rotary Evaporator LRE-A12

Rotary Evaporator LRE-A12 is a robust distillation unit which has a wide range of features, combining safety with ease of use and reliability. The key feature is the one piece quick clip, providing easy removal of sticking flasks and non-sticking vapor tube. With automatic water bath filling, maximum solvent recovery rate, static temperature control range, it is perfect for complex distillation processes. The touchscreen graphic LCD display with clear layout shows the rotation speed and temperature making it easy for operational use.

### Features

- » Chemical resistant PTFE seals
- » Automated water bath filling
- » Glass charging valve
- » Receiving flask equipped with bottom discharge
- » Motorized flask lift with safety automatic release of evaporating flask in case of power failure
- » Cooling surface of 10000 cm<sup>2</sup>
- » Bumping tube to prevent unexpected solution into receiving flask
- » Touch screen LCD display for smooth user control
- » Frequency conversion speed controller
- » Anti-corrosion and wearable sealing system
- » Safety control circuits
- » Easy, safe and user friendly operation
- » ISO and CE certified

### Applications

Used for flavor extraction in food industry, solvent removal in separation and recycling chemical / educational / fuel / environmental industry, to determine sample concentration, HPLC and natural product sample preparation, drying down powders (using test tube adapter) and trapping hazardous waste liquid.

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## Specifications

Model	LRE-A12
Evaporating flask	20 L / F 125
Optional Evaporating flask	10 L , 20 L
Receiving flask	10 L + 3 L , bottom discharge
Max evaporating speed ( H <sub>2</sub> O )	5 L / hr.
Condensing surface	1 m <sup>2</sup>
Lifting type	Automatic lifting
Condenser type	Vertical condenser
Rotation speed	0 – 110 rpm
Reachable vacuum rate	< 133 Pa
Bath power	5 kW
Heating power	5000 W
Rotation power	300 W
Static temp control range and wave	RT – 99 °C , 150 °C ± 2 °C
Bath size capacity	40 L
Material	SUS 304
Certification	ISO and CE
Power	220 V / 60 Hz
Dimensions	1100 x 700 x 2000 mm
Weight	140 kg

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## Safety Features

Model	LRE-A12
Over current protection	Have
No – spark electric control	Have
Ex- proof upgrade	Ex-proof modification on motor, rotation & heating control, lower heating power density, equip dry heat and overheat cut-off protector

## Functional Configurations

Model	LRE-A12
Digital Display	Bath Temperature , Rotation speed
PTFE discharge valve	PTFE
Charging valve	Glass
Taper joint PTFE sleeve	Have
Vacuum gauge	Have
PTFE rotary seal assembly	Have
Bumping system	Have
Overall flange joints	Have
Frequency conversion speed controls	Have
Throttle valve for vacuum	Have
Continuous receiving	Have
Water bath lid	Optional
Cold trap protection system	Optional
Thermometer neck for vapor	Optional
Evaporating flask unload handler	Optional
Ex proof motor	Optional
Optional evaporating flask ( baffles available on request )	5 L , 10 L