# ROTARY VACUUM EVAPORATOR

Receva 3.0





Quickly access system settings – all with the touch of a finger. Roteva 3.0 elevates the operations of your distillation process to a whole new level of performance with a touchscreen interface that allows control of all process parameters. With a focus on easing your everyday practical needs, it comes with an in-built solvent library enabling quick setting of related process parameters.

A completely redesigned and proven sealing mechanism and the PTFE feed cock are designed to withstand intensive use and guarantee years of operation for your Roteva.

Low maintenance and easy availability of components – reduces the downtime and cuts down on the lifecycle costs.





## INTUITIVE TOUCHSCREEN OPERATION

The advanced touchscreen interface allows precise operation of all process parameters - heating temperature, rotation speed, vacuum, lift position and lift speed

Optional - integrated vacuum control and vapour temperature indicator



# REVERSIBLE DIRECTION FOR UNIFORM EVAPORATION

The reversible rotation of the evaporating flask enables efficient and uniform evaporation







#### **INSTANT ROTATION SPEED CONTROL**

Instant adjustment of rotation speed with the Magic Knob



# COMPREHENSIVE SOLVENT LIBRARY FOR THE MOST COMPLEX DISTILLATIONS

Start your operations with the touch of a finger with the in-built solvent library







## INTUITIVE LIFT AUTOMATION

Set your parameters and Roteva will do the rest without any monitoring for fully unattended operation



- Safe & effortless lateral movement of heating bath
- Auto lift on elapse of process timer
- Auto lift on power failure
- Floating overshoot
- Over temperature
- Degree of Protection IP20

- Operating panel located at the base to prevent scalding from any splashing bath fluid and rotating flask
- Lift height adjustment limiter
- Seal life indicator and replacement alarm



#### **ROTEVA HEATING BATH**

- Oval shaped for safer and convenient immersion of flask
- Temperature range of upto 200°C
- Two operating modes water and oil for accurate temperature control
- Effortless lateral movement of heating bath for adjusting according to flask size
- Process timer
- Reference scale for bath placement as per flask size to eliminate any ambiguities
- Optional Heating Bath for flask up to 5000 ml

### **GLASS SETS**

Option of vertical and diagonal condenser with continuous feed as standard and supplied with 1 L Evaporating and Receiving Flask.

(V) Vertical Condenser

(D) Diagonal Condenser

#### **FLASK OPTIONS**

CAPACITY / ITEM	EVAPORATING FLASK 'B-29'	RECEIVING FLASK 'S-35'
50 ml	#S1315-05	#S1316-05
100 ml	#S1315-10	#S1316-10
250 ml	#S1315-15	#S1316-15
500 ml	#S1315-20	#S1316-20
1,000 ml	#S1315-25	#S1316-25
2,000 ml	#S1315-30	#S1316-30
3,000 ml	#S1315-35	#S1316-35

### **OPTIONAL ACCESSORIES**

# equitron Xemp RECIRCULATING CHILLER (COOLER)

- Ideal for cooling applications in Rotary Evaporators
- Compact design and whisper quiet performance
- Designed for continuous operation
- Easy to read temperature screen with status and audio-visual alarms
- PID Temperature Control with a setting/display resolution of 0.1°C
- Built-in pump with capacity of 15 LPM
- Cooling capacity 400W at 20°C
- Temperature Range: -10°C to RT



# VACUUM PUMP - VARIABLE 2 mbar (20 LPM)

- PTFE coated variable drive energy efficient diaphragm pump manufactured with German technology
- Digital Controller with display of actual and set values
- Supplied with solvent trap



# VACUUM PUMP - PTFE COATED DIAPHRAGM 5 mbar (38 LPM) / 2 mbar (20 LPM)

- PTFE coated diaphragm pump manufactured with German technology
- Supplied with solvent trap



#### INTEGRATED VACUUM CONTROLLER

- Integrated vacuum controller provides you with the maximum capability for vacuum control and aeration
- Can be connected to any vacuum source





#### **VAPOUR TEMPERATURE SENSOR**

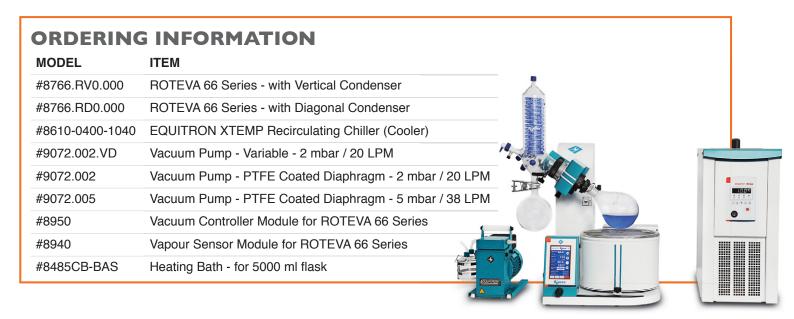
■ For accurate monitoring of evaporation temperature

#### TECHNICAL SPECIFICATION

Parameter	Specification	Parameter	Specification
Lift	Motorised	Bath inner MOC	SS 1.4301
Height Adjustment (mm)	170	Bath outer MOC	SS 1.4301 powder coated
Lift speed adjustment	Yes	Bath fill-up volume (L)	5
Stopper for minimum lift height	Yes	Max flask accommodation (ml)	3000 / 5000 <sup>1</sup>
Auto lift on power cut	Yes	Temp range (°C)	Ambient +5 to 200
Rotation speed (rpm)	20-280	Bath control accuracy (°C)	±1 (water), ±2 (oil)
Drive direction control	Bidirectional/Reversible	Setting/display resolution (°C)	0.1
Soft start	Available	Power connection	Integrated at back panel
Sealing mechanism	NBR – PTFE	Heater rating (W)	1200
Condenser	Vertical / Diagonal	Bath floating overshoot	Yes
Continuous feed	Yes	Bath absolute over temp cut-off	Yes
Condenser Cooling Area (cm²)	1200	Bath - use independently	Yes <sup>2</sup>
Feed stopcock material	PTFE	Max external dim (W x D x H in mm)	407 x 494 x 615 <sup>3</sup>
Threaded connectors for utilities	Yes	Operating conditions	5 to 35°C (at 80% RH)
Flask Ejector	Yes	Power supply	230 VAC, 50/60 Hz

<sup>&</sup>lt;sup>1</sup> 5000 ml flask can be accommodated with optional heating bath

<sup>&</sup>lt;sup>3</sup> With standard heating bath and vertical glass set





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<sup>&</sup>lt;sup>2</sup> With optional extended cable