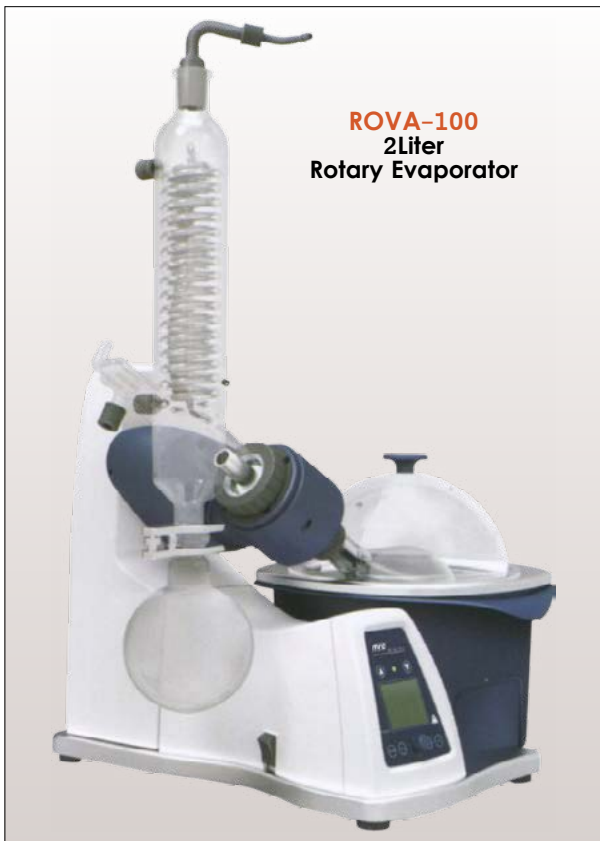


Rotary Evaporators



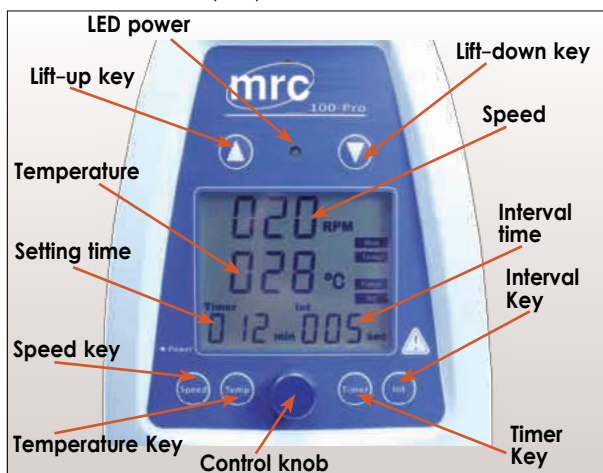
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ROTARY EVAPORATORS Professional, 2 Liter, up to 180°C



ROVA-100
2Liter
Rotary Evaporator

- Easy to read large digital LCD screen displays heating temperature, rotation speed and timing
- Speed range from 20 to 280 rpm
- Large 5L water-oil heating bath with heating temperature range RT to 180°C
- Heating bath with precise temperature control and adjustable safety circuit
- Designed a detachable operating panel allows remote control
- Patented condenser (cooling surface 1,500 cm²) with excellent cooling effect
- Motorized lift with quick-action, automatic release evaporating flask to top position in case of power failure
- Adjustable final position recognition to protect operator and sample against breakage
- Evaporating flask with an ejector, convenient to remove
- Available with timer function to precise control processing
- Chemical-resistant double PTFE system and patented pressure spring provide excellent sealing
- PC can control and document all parameters via RS232 interface (USB).



- LED power
- Lift-up key
- Temperature
- Setting time
- Speed key
- Temperature Key
- Control knob
- Lift-down key
- Speed
- Interval time
- Interval Key
- Timer Key

ROVA-100, Digital Rotary Evaporator

| Model | ROVA-100 |
|-------------------------------------|---------------------|
| Voltage (VAC) | 100-240 |
| Frequency (Hz) | 50/60 |
| Power (W) | 1400 |
| Motor Principle | DC brush less motor |
| Speed range (rpm) | 20-280 |
| Speed display | LCD |
| Reversible Direction of Rotation | Yes |
| Heating Temperature Range (°C) | RT-180 |
| Heating Control Accuracy (°C) | ±1 |
| Heat Output (W) | 1300 |
| Temperature Display | LCD |
| Lift | Motor |
| Stroke (mm) | 150 |
| Timer | Yes |
| Timer display | LCD |
| Time setting range (min) | 1-999 |
| Overall Dimensions (D x W x Hmm) | 420 x 400 x 580 |
| Weight (kg) | 20 |
| Permissible ambient temperature (C) | 5-40 |
| Permissible relative humidity | 80% |
| Protection class acc. DIN EN60529 | IP20 |
| RS232 interface | Yes |



Patented condenser with cooling surface 1,500 cm²

Chemical-resistant double PTFE system and patented pressure spring provide excellent sealing.

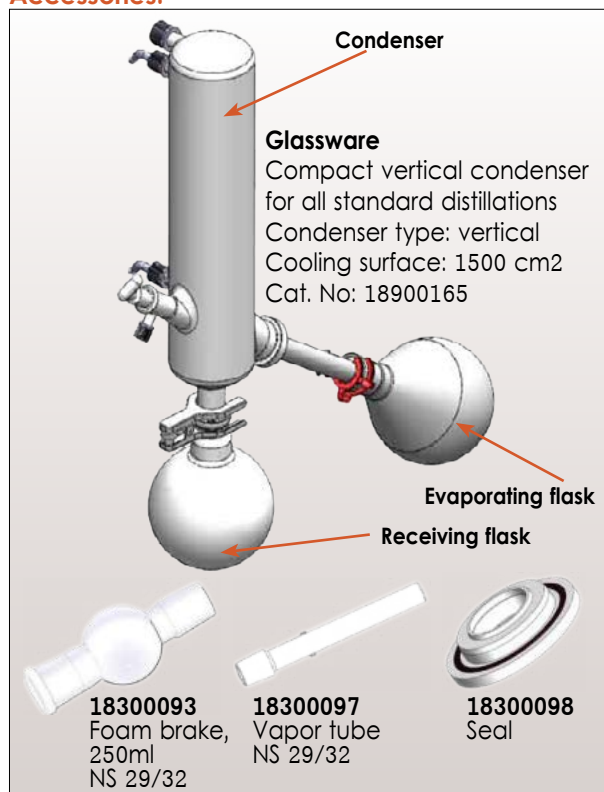
Motorized lift with quick-action, automatic release evaporating flask to top position in case of power failure.

Large 5L water-oil heating bath with heating temperature range of RT to 180°C.


Easy to read large digital LCD screen displays heating temperature, rotation speed and timing.

Designed a detachable operating panel allows remote control.


Accessories:





NS 29/32, Spiders with 5 flasks


| Model | Volume |
|---|--------|
|  18300102 | 50ml |
| 18300103 | 100ml |


NS 29/32, Connector

| Model | Size |
|---|------|
|  18300094 | 24 |
| 18300095 | 19 |
| 18300096 | 14 |

Ordering Information

| Model | P/N | Description | Volume | Size |
|-------------------------------|------|---|-------------------|----------|
| Glassware | | | | |
| 18900165 | | Glassware vertical | 1000ml | - |
| Flasks | | | | |
| 18300116 | |  | 50ml | NS 29/32 |
| 18300117 | | | 100ml | |
| 18300118 | | | 250ml | |
| 18300119 | | | 500ml | |
| 18300120 | | | 1000ml | |
| 18300121 | | | 2000ml | |
| 18300107 | |  | 100ml | KS 35/20 |
| 18300108 | | | 250ml | |
| 18300109 | | | 500ml | |
| 18300110 | | | 1000ml | |
| 18300111 | | | 2000ml | |
| 18300112 | | | 3000ml | |
| 18300102 | | Spider | 50ml | NS 29/32 |
| 18300103 | | | 100ml | |
| 18300094 | | Connector | - | 29x24 |
| 18300095 | | | - | 29x19 |
| 18300096 | | | - | 29x14 |
| 18300093 | | Foam brake | 250ml | 29x29 |
| 18300097 | | Vapor tube | - | NS 29/32 |
| Additional Accessories | | | | |
| 18100926 | | Seal, Airtight lip-seal from a PTFE compound with a built-in stainless steel spring | | |
| CVP-13 | C410 | Chemical resistant Vacuum Pump | 220-240V, 50/60Hz | |
| WBL-100 | F250 | Recirculating chiller | | |

| | | | |
|---|--------------------------|--------------------------------|-----------|
|  CVP-13-1, Optional: Vacuum pump | Pump Speed | 0 mmHg | 25 L/min |
| | | 100 mmHg | 22 L/min |
| | | 200 mmHg | 20 L/min |
| | | 300 mmHg | 12 L/min |
| | | 400 mmHg | 7.5 L/min |
| | | 550 mmHg | 5 L/min |
| | | Suction Nozzle Size(mm) | 8 |
| | Motor speed (rpm) | 1450 | |
| Weight (kg) | 7 | | |
| Noise (dB) | 50 | | |

| | | |
|--|--|--------------|
|  WBL-100, Optional: Recirculating chiller | Temp. range(°C) | -30 - 100°C |
| | Temp. stability(°C) | ±1.0 |
| | Temp. display | LED |
| | Pump capacity flow rate (l/min) | 9 |
| | Pump capacity flow pressure (bar) | 0.35 |
| | Filling volume (L) | 9 |
| | Weight (kg) | 32 |
| | Dimensions (W×L×H cm) | 30 × 45 × 63 |

ROTARY EVAPORATORS Professional, 2 Liter, up to 180°C

ROVA-N2L, 2 Liter Rotary Evaporator



The equipment for purification distillation test rotates and shapes a thin film in negative pressure condition by heating, evaporates efficiently, and then condenses and recollects solvent to purify and separate. The products can be made into system devices with Multi-purpose Circulating Water Vacuum Pump, Diaphragm Vacuum Pump, Low Temperature Circulating (vacuum) Pump, Circulating Cooler, Constant Temperature Circulator, Low Temperature Cooling Liquid Circulating Pump.

- Double sealing with Teflon (PTFE) and fluorine rubber to ensure high vacuum degree.
- The air extraction nozzle of condenser is set down, and it is safer after connection with vacuum pipe.
- Building block design is easily to be extended.
- Easy operation of lifting, move up and down smoothly and easy to lock.
- Dedicated electric machinery, worm and gear drive steadily.
- Speed display, operate visually and easily
- The temperature adopts PID control, which ensures accurate temperature control.
- The separation of bath & the mainframe makes configure flexible.



| Model | ROVA-N2L |
|--------------------------------|--|
| Rotary speed (Rpm) | 10 ~ 180 |
| Evaporating speed (ml/min) | 20 |
| Achievable vacuum (Pa) | 399.9 (below 3mmHg) |
| Temperature range (°C) | Room temp ~ 100 |
| Temperature display | Keypad input, Digital display |
| Speed-setting | Knob setting, Digital display |
| Safety functions | Insurance |
| Functions of lifting table | Weight balancing Gliding elevating+ manual lifting |
| Rotary motor (W) | 25 |
| Heater wattage (KW) | 1.5 |
| Condenser model | Vertical type water refrigerating |
| Rotary bottle (L) | 0.5 ~ 2 |
| Collecting bottle (L) | 1 |
| Vacuum sealing | Double sealing rings made of Teflon + Vinton materials |
| Water Bath size and volume (L) | φ260×140·7.4 |
| Elevating stroke (mm) | 100+150 |
| Ambient temperature (°C) | 5 ~ 35 |
| Dimensions (mm) | 560L×320W×660H |
| Weight (kg) | 9.5 |
| PowerSupply (V/Hz) | 220/50 |



ROVA-N5L/10L/20L/50L, Rotary Evaporators

Large capacity, large diameter rotary evaporator flask, evaporation area, the vacuum water bath, while rotating edge heating, evaporation of the solution diffusion efficiency can be used for biological, pharmaceutical, chemical, food and other small scale areas, Chinese and production. Products with recycled water multi-use vacuum pumps, diaphragm pumps, low temperature cycle (vacuum) pumps, circulating cooler, constant temperature circulator, low temperature cooling liquid circulating pump and other devices supporting component systems.

- Teflon (PTFE) and fluorine rubber dual rotating seal, patented technology to ensure high vacuum.
- The introduction of foreign advanced frequency control system, temperature control system, accurate & reliable.
- A vacuum switching valve, without affecting the system vacuum distillation of the situation & the solution can be continuously collected.
- Water bath electric lift and manual lift support, easy to use.
- PTEE discharge valve, corrosion resistance, pollution-free.



- 20 Litres, 50 Litres middle and large type of Rotary Evaporator
- SHB-E big swept volume Water Circulating Vacuum Pump
- DLSB-30/30 or DL-3000, DL-5000 of Low temperature system.

| | | | | |
|---|--|---|--|---|
| | | | | |
| Model | ROVA-N5L | ROVA-N10L | ROVA-N20L | ROVA-N50L |
| Rotary Bottle | 5L, diameter of flange opening: Φ50mm | 10L, diameter of flange opening: Φ95mm | 20L, diameter of flange opening: Φ95mm | 50L, diameter of flange opening: Φ125mm |
| Collecting bottle | 3 | 5 | 10 | 20 |
| Speed-regulation of main machine | Digital display, variable frequency, stepless Speed-regulation | | | |
| Rotary speed of main Machine | 10-140rpm | 10-130rpm | 10-130rpm | 10-110rpm |
| Rotating motor (W) | phase AD induction motor, power: 40W | phase AD induction motor, power: 90W | phase AD induction motor, power: 180W | phase AD induction motor, power: 180W |
| Condensing tube | Vertical Type Water Refrigerating | Standing, main+auxiliary cooling and highly efficient 3 circulating cold trap | | |
| Heating boiler | stainless water bath | | | |
| Temperature control | Digital display, temperature control, 0~99°C | | | |
| Achievable vacuum | 399.9Pa (below 3mmHg) | | | |
| Evaporating capability | Water ≥2L/h Alcohol ≥4L/h | Water ≥3.2L/h Alcohol ≥6.5L/h | Water 5L/h Alcohol 11L/h | Water 9L/h Alcohol 19L/h |
| Elevating function | Electric elevation | Electric elevation | Electric elevation | Electric+Manual elevation |
| Elevating stroke | 0~150mm | 0~160mm | 0~190mm | 0~230mm |
| Rated power supply | 220V/50Hz | 220V/50Hz | 380V/50Hz | 380V/50Hz |
| Power of power supply | 2.2KW | 4.8KW | 6.3KW | 8.3KW |
| Dimensions (mm) | 765Lx400Wx1070H | 920Lx550Wx1700H | 1250Lx600Wx2100H | 1320Lx770Wx2340H |