

ROTARY EVAPORATOR

COMPLETE UNIT

Advance Science Rotary Evaporator is designed for efficient, safe and reliable evaporation of solvents. Ideal for a wide range of laboratory applications.



PRECISE
PERFORMANCE



EXACT
TEMPERATURE CONTROL



STABLE
OPERATION



SAFE &
RELIABLE



PREMIUM QUALITY
MATERIALS



EASY TO USE
& MAINTAIN



COMPLETE SYSTEM



ROTARY
EVAPORATOR



HEATING
BATH



VACUUM
PUMP



RECIRCULATING
CHILLER



GLASS
ASSEMBLY



EVAPORATING FLASK
50 ml – 20 L



RECEIVING FLASK
250 ml – 10 L



TEMPERATURE RANGE
RT – 180°C



ROTATION SPEED
20 – 280 rpm



VACUUM RANGE
0 – 0.098 MPa



LIFT STROKE
0 – 180 mm



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ROTARY EVAPORATOR COMPLETE UNIT

Advance Science Rotary Evaporator is a complete solution for efficient and reliable solvent evaporation. The system is designed to deliver maximum performance, safety and convenience in laboratory applications.

1 Vertical Condenser
High efficient double coil condenser for maximum condensation area.

2 Vacuum Port
PTFE vacuum port for leak-proof connection.

3 Receiving Flask
High borosilicate glass flask for collection of distillate.

4 Vacuum Gauge
Provides accurate vacuum monitoring for safe operation.

5 Digital Control Panel
Digital display for speed and temperature with PID control for precise performance.

6 Automatic Lift System
Motorized lift for easy height adjustment and smooth operation.

7 Evaporating Flask
High borosilicate glass flask for efficient evaporation.

8 Heating Bath
Precise temperature control bath with wide temperature range.



COMPLETE SYSTEM INCLUDES



ROTARY EVAPORATOR
MAIN UNIT



HEATING BATH



VACUUM PUMP



RECIRCULATING
CHILLER



GLASS ASSEMBLY
SET



VACUUM
CONTROLLER



COMPLETE SOLUTION
All essential components for smooth and efficient operation.



PERFECT COMPATIBILITY
All components are specially selected for best performance.



RELIABLE PERFORMANCE
Ensures consistent results with high safety and durability.



EASY TO INSTALL
Quick setup and user-friendly operation.



AFTER SALES SUPPORT
Dedicated support for installation, training and service.



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TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Model	AS-RE100
Evaporating Flask Capacity	50 ml – 20 L
Receiving Flask Capacity	250 ml – 10 L
Rotation Speed	20 – 280 rpm
Temperature Range	RT – 180°C
Temperature Control Accuracy	±1°C
Lift Stroke	0 – 180 mm
Vacuum Range	0 – 0.098 MPa
Motor	Brushless DC Motor
Display	Digital LED Display
Condenser Type	Vertical, Double Coil
Condenser Surface Area	≥ 0.15 m ²
Bath Capacity	5 L
Power Supply	220 – 240 V, 50/60 Hz
Total Power	1500 W
Dimensions (W×D×H)	660 × 450 × 900 mm
Weight (Approx.)	35 kg

FEATURES

- ✓ Digital speed and temperature display
- ✓ PID temperature control for high accuracy
- ✓ Automatic lift system for easy operation
- ✓ High borosilicate glass assembly (GG-17) with excellent chemical resistance
- ✓ PTFE sealing system for vacuum tightness
- ✓ Over-temperature protection
- ✓ Smooth and quiet operation
- ✓ Easy assembly and easy cleaning

APPLICATIONS

-  Pharmaceutical Industry
-  Chemical Industry
-  Biotechnology
-  Food & Beverage
-  Universities & Colleges
-  Research Laboratories

STANDARD ACCESSORIES

- Rotary Evaporator Main Unit
- Heating Bath
- Vertical Condenser
- Evaporating Flask
- Receiving Flask
- Vacuum Gauge
- PTFE Sealing Set
- Power Cable
- User Manual

OPTIONAL ACCESSORIES

- Vacuum Pump
- Recirculating Chiller
- Vacuum Controller
- Cold Trap
- Different Size Flasks
- Glassware Set
- Anti-bumping Granules

COMPLETE UNIT CONFIGURATION



QUALITY YOU CAN TRUST

Advance Science ensures premium quality, durability and performance in every product. All units are tested for safety, efficiency and long life.



RELIABLE
PERFORMANCE



PREMIUM
QUALITY



AFTER SALES
SUPPORT



EASY TO USE
& MAINTAIN

ROTARY EVAPORATOR COMPLETE UNIT

Advance Science Rotary Evaporator is engineered with advanced technology and premium materials to deliver high efficiency, safety and consistent performance in every application.



DIGITAL DISPLAY & PID CONTROL

Large LED display for rotation speed and temperature. PID control ensures precise temperature and stable performance.



BRUSHLESS DC MOTOR

High performance brushless motor ensures powerful, maintenance free and silent operation with long service life.



PRECISE TEMPERATURE CONTROL

Wide temperature range up to 180°C with high accuracy of $\pm 1^\circ\text{C}$ for efficient evaporation of solvents.



OVER-TEMPERATURE PROTECTION

Built-in safety mechanism to cut off heating in case of over-temperature for safe and reliable operation.



STABLE & RELIABLE PERFORMANCE

Robust design and high quality components ensure stable operation and consistent results.



AUTOMATIC LIFT SYSTEM

Motorized lift for easy and smooth height adjustment of evaporating flask with a lift stroke of 0 – 180 mm.



HIGH BOROSILICATE GLASS (GG-17)

All contact parts are made of high borosilicate glass with excellent chemical resistance and high transparency.



PTFE SEALING SYSTEM

PTFE sealing provides excellent vacuum tightness, chemical resistance and leak-proof performance.



HEATING BATH

5 L heating bath with stainless steel chamber ensures uniform heating and quick temperature recovery.



SMOOTH & QUIET OPERATION

Low noise design ensures smooth and quiet operation providing better working environment.

KEY BENEFITS



HIGH EFFICIENCY

Maximum evaporation efficiency saves time and energy.



SAFE OPERATION

Multiple safety features ensure operator protection.



WIDE APPLICATION

Ideal for various laboratory applications in different industries.



EASY MAINTENANCE

User friendly design for easy assembly, cleaning and maintenance.



PREMIUM QUALITY

High quality materials and precision engineering for long life and reliability.



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HIGH VACUUM PUMP

For Rotary Evaporator & Laboratory Applications

Powerful Performance. Reliable Vacuum. Built to Last.

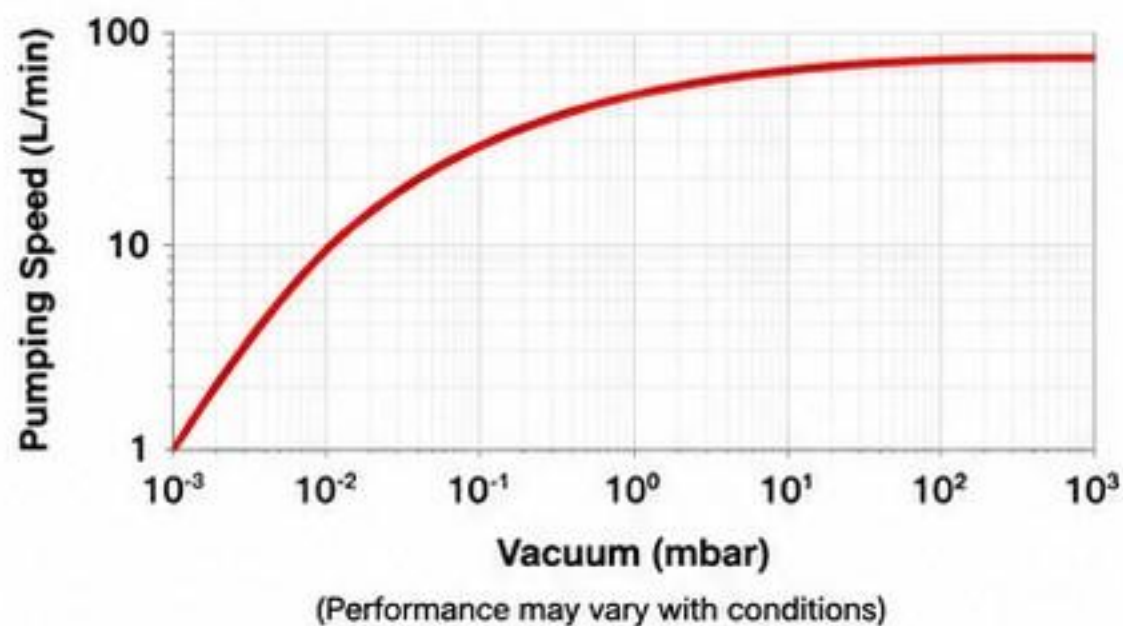
PRODUCT OVERVIEW

Advance Science High Vacuum Pump is designed to provide high pumping speed, ultimate vacuum and stable performance for rotary evaporators and other laboratory applications. It ensures efficient solvent evaporation with low noise, low vibration and maintenance-free operation.

KEY FEATURES

- High Ultimate Vacuum**
Achieves deep vacuum for efficient evaporation.
- Oil Free & Maintenance Friendly**
Long service life with minimal maintenance.
- Low Noise & Low Vibration**
Smooth and quiet operation.
- Overheat Protection**
Built-in thermal protection for safe operation.
- Oil Mist Filter**
Reduces oil mist and keeps environment clean.
- Compact & Portable Design**
Space saving and easy to carry.

PERFORMANCE CURVE



TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AS-VP20
Pumping Speed	20 L/min (50 Hz) 24 L/min (60 Hz)
Ultimate Vacuum	≤ 2 Pa
Motor Power	370 W (0.5 HP)
Voltage	220 – 240 V, 50 Hz 110 – 120 V, 60 Hz
Oil Capacity	280 ml
Inlet Port	KF-25
Outlet Port	KF-25
Noise Level	≤ 58 dB(A)
Dimensions (L × W × H)	410 × 150 × 240 mm
Weight	15.5 kg
Operating Temperature	5 – 40 °C
Protection Class	IP 20

APPLICATIONS

- Rotary Evaporators
- Distillation & Filtration
- Vacuum Drying
- SPE & Solid Phase Extraction
- Degassing & Vacuum Concentration
- General Laboratory Applications

STANDARD ACCESSORIES



OPTIONAL ACCESSORIES

- Cold Trap
- Vacuum Gauge
- Oil Mist Trap
- KF Connectors
- Vacuum Controller



RECIRCULATING CHILLER

For Rotary Evaporator & Laboratory Applications

Reliable Cooling. Precise Control. Superior Performance.

PRODUCT OVERVIEW

Advance Science Recirculating Chiller is designed to provide precise, stable and reliable cooling for rotary evaporators and other laboratory equipment. It features a powerful refrigeration system with accurate temperature control, user-friendly interface and safe operation for continuous use in laboratory environments.

KEY FEATURES



PRECISE TEMPERATURE CONTROL

Microprocessor based PID control ensures accurate and stable temperature.



POWERFUL COOLING PERFORMANCE

High efficiency compressor and condenser for fast cooling and stable operation.



SAFE & RELIABLE

Multiple safety protection functions for compressor, system & circulation pump.



EASY TO USE

Digital display with simple key operation and clear parameter setting.



LOW NOISE OPERATION

Optimized design for quiet and low vibration performance.



CORROSION RESISTANT

Stainless steel tank and high quality materials for long service life.



ECO FRIENDLY
REFRIGERANT
R-134a

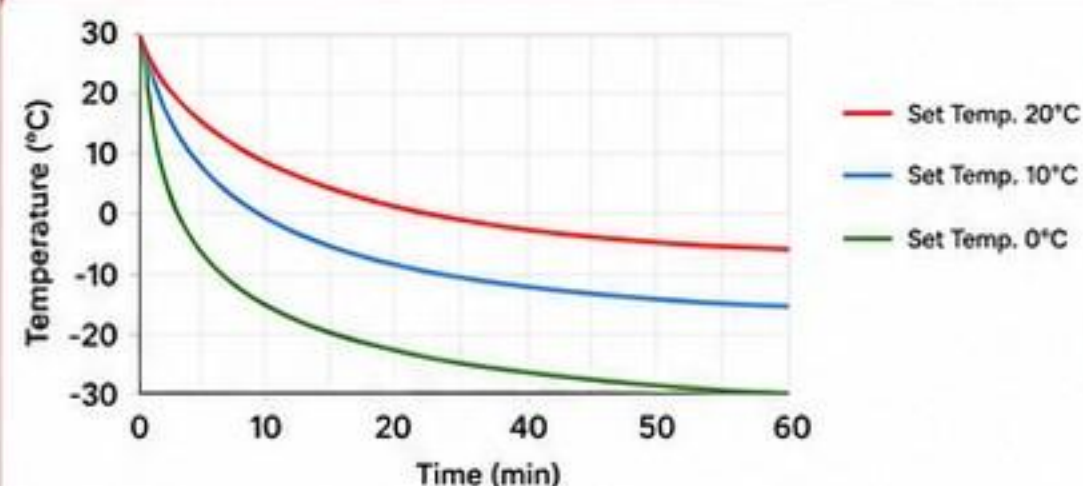
IDEAL FOR

- Rotary Evaporators
- Distillation Systems
- Laboratory Reactors
- Spectrometers & Analyzers
- Other Laboratory Applications

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AS-RC20
Cooling Capacity	At 20°C 2000 W At 10°C 1500 W At 0°C 900 W
Temperature Range	-20°C to +20°C
Temperature Stability	± 0.5°C
Temperature Control	PID Digital Controller
Display	LED Digital Display
Refrigerant	R-134a (Eco Friendly)
Compressor	Hermetically Sealed
Circulation Pump	Powerful Magnetic Drive Pump
Tank Capacity	10 L (Stainless Steel)
Inlet / Outlet	Ø 12 mm
Max. Flow Rate	20 L/min
Max. Lift	10 m
Power Supply	220 – 240 V, 50 Hz
Power Consumption	850 W
Dimensions (L × W × H)	410 × 320 × 620 mm
Weight	35 kg
Safety Protection	Compressor Overload, High/Low Pressure, Over Temperature, Flow Alarm
Protection Class	IP 20

COOLING PERFORMANCE



Note: Performance may vary with ambient conditions and load.

STANDARD ACCESSORIES



Connecting Hose
(1.5 m)



Hose Clamp
(2 Nos.)



Connector
(Ø 12 mm)



User Manual

OPTIONAL ACCESSORIES

- Insulated Bath Cover
- External Reservoir Tank
- Filter Kit
- Quick Connect Couplings
- Temperature Probe
- RS-485 Communication (On Request)



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