

INNTEG-ScienceOne Product Catalog



INNOTEK-ScienceOne Rotary Evaporator — Vap Series

>>> High precision and easy to use

Vap Series Rotary Evaporators include Vap Basic and Vap Smart

Our Vap Series is designed for standard distillation, crystallization, concentration, powder drying and separation of one or more solvents. It can also be used for pretreatment of samples before gas chromatography, liquid chromatography, and mass spectrometry!

Vap Basic

>> Efficient and economic choice

The Vap Basic rotary evaporator come equipped with an easy to use semi-manual lift with integrated safety lift out function, and it is ideal for all standard evaporating applications. Digital displays for both rotation speed and heating bath temperature allow for optimal controlling of all distillation processes.



Features

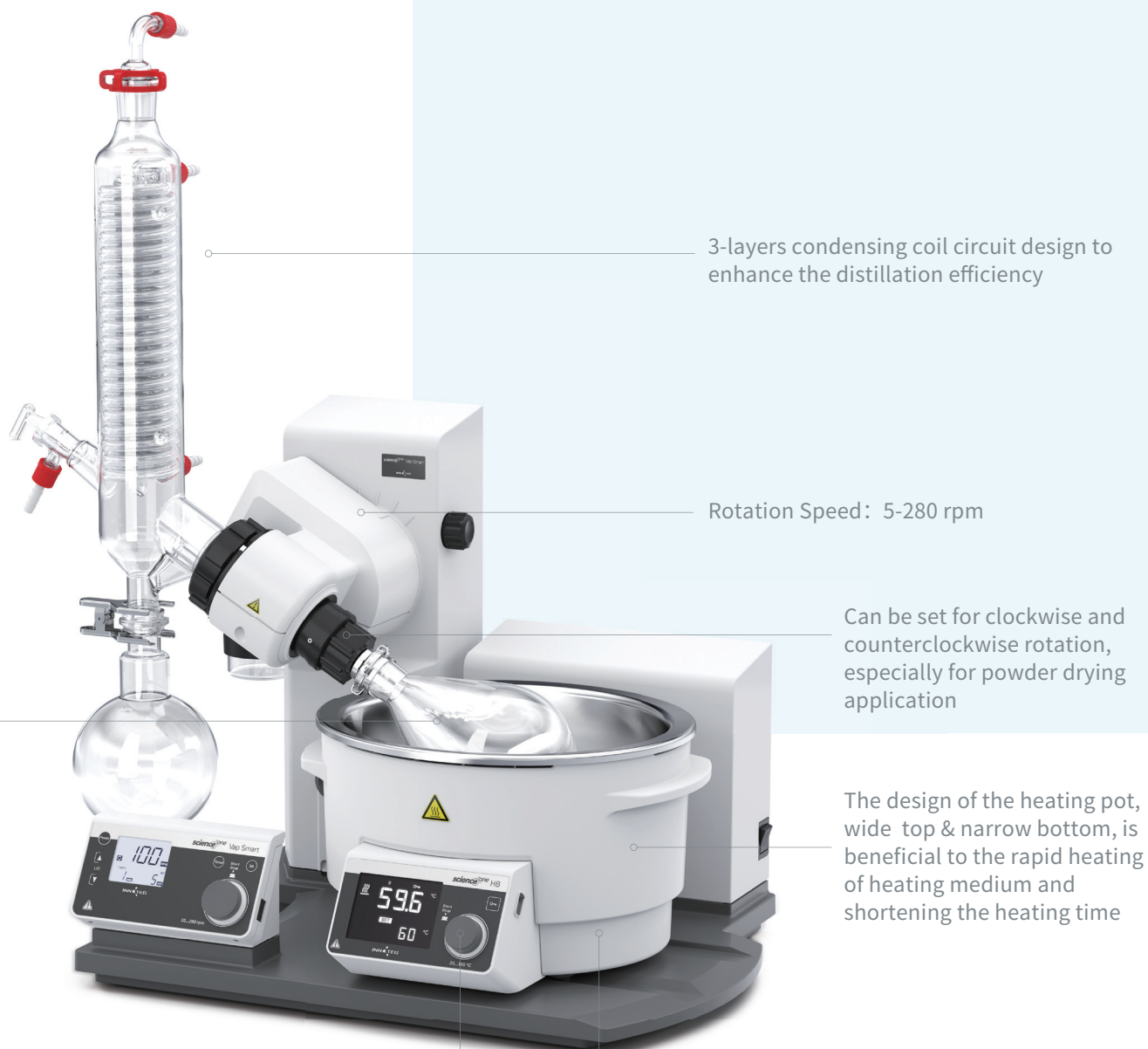
- › Rotation Speed: 5-300 rpm
- › Temperature range, heating bath: RT to +180 °C, suitable for water / oil bath application.
- › The design of the heating bath, wide top & narrow bottom, is beneficial to the rapid heating of heating medium and shortening the heating time.
- › The key lock function of operation panel can prevent the unpredictable touch.
- › The 3-layers condensing coil design can enhance the distillation efficiency.
- › The hand grip is ergonomically designed and located in front of the instrument, it can be moved up and down easily to control the evaporating flask. The ambidextrous design makes working more convenient and comfortable by either left or right hand.
- › After an unexpected power failure, the instrument will raise the evaporating flask automatically to avoid damage to the sample.
- › Adjustable immersion angle of height of evaporating flask.

Vap Smart

>> Advance and precise distillation

The Vap Smart rotary evaporator with advanced technology.

The automatic solvent boiling point detection make the distillation process much easier.



3-layers condensing coil circuit design to enhance the distillation efficiency

Rotation Speed: 5-280 rpm

Can be set for clockwise and counterclockwise rotation, especially for powder drying application

The design of the heating pot, wide top & narrow bottom, is beneficial to the rapid heating of heating medium and shortening the heating time

After an unexpected power failure, the instrument will raise evaporating flask automatically to avoid damage to the sample

The key lock function of operation panel can prevent the unpredictable touch

Temperature range of heating bath: RT to +180 °C, suitable for water / oil bath application

Technical Specifications — Rotary Evaporators



Adjustable immersion height and angle



Push-out function



High efficiency condensing tube, 3-layers condensing coil increases condensing surface



Advanced heating bath, temperature from RT to +180 °C

TECHNICAL DATA	Vap Basic	Vap Smart
Drive		
Type of condenser	vertical	
Condensing surface	1500 cm ²	
Rotation Speed	5 rpm - 300 rpm	5 rpm - 280 rpm
Clockwise and counterclockwise	no	yes
Lifting	manual	motor
Stroke displacement	120 mm	140 mm
Heating Bath		
Temperature range	RT to + 180 °C	
Heating power	1300 W	
Temperature accuracy	± 1 K	
Operation mode	3 mode	
Maximum heating bath capacity	4 L	
Vacuum controller	optional	
Timer	no	yes
Dimensions (W*D*H)	510 x 345 x 490 mm	500 x 430 x 410 mm
Weight	15.5 kg	20 kg
Permissible ambient temperature	+ 5 °C to + 40 °C	
Permissible relative humidity	80%	
Protection class according to DIN EN 60529	IP 20	
RS 232 interface	no	yes
Power consumption	1400 W	
Voltage	220 - 230	
Frequency	50/60 Hz	

Accessories

>>> Rotary Evaporators



INNOTEG-ScienceOne Vap Basic



INNOTEG-ScienceOne Vap Smart

+



Digital Vacuum Pump

+



Vacuum Safety Condenser (optional)

+



Digital Vacuum Controller

+



INNOTEG TCS-3 Refrigerated Circulator

INNOTEK-ScienceOne Magnetic Stirrer — MR Series

>>> High speed and precise temperature control

MR series magnetic stirrers include MR 1 and MR 5

Our MR series magnetic stirrer is suitable for liquid or solid-liquid mixture. It can be stirred or heated/stirred at the same time to provide strong mixing and precise temperature control!

INNOTEK-ScienceOne MR1



Features

- › Heating power: 600 W
- › Temperature range: RT to + 310°C
- › Rotation speed: 50-1500 rpm
- › Real-time measurement of the viscosity trends, easy to observe the experimental progress
- › Stirring direction clockwise / counterclockwise alternatively, especially for crystallization experiment
- › Intermittent operation mode can be set to satisfied the special mixing requirements

INNOTEG-ScienceOne MR 5

>> High power and high chemical resistance

The heating plate is made of aluminum alloy with ceramic coating, which combines chemical resistance, and excellent heat conduction and distribution

Heating temperature range: RT to + 310 ° C
Heating power: 850 W



Rotation speed: 50-1500 rpm

Stirring direction clockwise / counterclockwise alternatively, especially for crystallization experiment

Real-time measurement of viscosity trends, easy to observe the experiment progress

Intermittent operation mode can be set to satisfy the special mixing requirements

Technical Specification — Magnetic Stirrers

TECHNICAL DATA		MR 1	MR 5
General data			
Voltage		220 – 230 VAC ± 10 % 115 VAC ± 10 % 100 VAC ± 10 %	
Frequency		50 / 60 Hz	
Power input		650 W	900 W
Power input standby		1.6 W	
Self-heating of the heating plate by max. stirring (RT:22° C/duration:1h)		+ 13 °C	
Automatic reverse rotation		yes	
Intermittent mode		yes	
Viscosity trend measurement		yes	
Timer		yes	
Interface		USB, RS 232	
Permissible ambient temperature		+ 5 ... + 40 °C	
Permissible relative humidity		80 %	
Protection class according to DIN EN 60529		IP 42	
Protection class		I	
Contamination level		2	
Overvoltage category		II	
Plate material		Aluminium alloy	Aluminium with ceramic coating
Plate dimensions		Ø 135 mm	137 x 137 mm
Dimensions (W × D × H)		160 × 270 × 85 mm	
Weight		2.3 kg	2.6 kg
Operation at a terrestrial altitude		max. 2000 m	
Stirring function			
Number of stirring positions		1	
Max. stirring quantity (H2O)		20 l	
Speed range		0 / 50 ... 1500 rpm	
Speed display set-value		LCD	
Speed display actual-value		LCD	
Speed setting		rotating knob	
Speed setting accuracy		10 rpm	
Speed variation (no load, nominal voltage, at 1500 rpm, ambient temperature + 25 °C)		± 2 % of 1500 rpm	
Stirring bar length		30 ... 80 mm	

INNOTEK-ScienceOne Overhead Stirrer — Tor Series

>>> Compact design and high performance

Tor series overhead stirrers include Tor M20 A and Tor M80 A

Our Tor series overhead stirrer is suitable for continuous stirring reaction of samples with thick viscosity, can be combined with a variety of mixing paddles to meet the mixing purposes.



Tor M20 A

- › Speed range: 50-2000 rpm, LED display
- › Maximum viscosity: 10000 mPas
- › Maximum torque of the mixing shaft: 20 Ncm
- › Cast aluminum shell material coating to provide good sealing with high degree of protection of IP 54
- › Compact body design, space-saving experiment
- › Instrument compact and lightweight, easy to install and move



Tor M80 A

- › Speed range: 50-500 rpm, LED display
- › Maximum viscosity: 60000 mPas
- › Maximum torque of the mixing shaft: 80 Ncm
- › Cast aluminum shell material coating to provide good sealing with high degree of protection of IP 54
- › Compact body design, space-saving experiment
- › Instrument compact and lightweight, easy to install and move

Technical Specification — Overhead Stirrers

TECHNICAL DATA	Tor M20 A	Tor M80 A
Drive unit		
Speed range under nominal load	0 / 50 ... 2000 rpm	0 / 50 ... 500 rpm
Speed adjustment	Stepless	
Speed display	LED	
Speed setting accuracy	± 1 rpm	
Speed measurement deviation	Speed < 300 rpm: ± 3 rpm Speed > 300 rpm: ± 1 %	
Max. torque at stirrer shaft	20 Ncm	80 Ncm
Max. stirring quantity (water)	15 l	50 l
Max. viscosity	10000 mPa•s	60000 mPa•s
Permitted on time	100 %	
Nominal voltage	24 VDC	
Max. current	2900 mA	
Max. input power	69 W	
Max. output power at stirring shaft	42 W	
IP code according to EN 60529	IP 54	
Contamination level	2	
Protection at overload	motor current limitation	
Ambient temperature	5 ... 40 °C	
Ambient humidity (rel.)	80 %	
Drive	Brushless DC-Motor	
Clamping chuck-clamping range	0.5 ... 8 mm	
Hollow shaft internal diameter	8.5 mm	
Extension arm (Ø × L)	13 mm × 160 mm	
Dimensions (W × D × H) (without extension arm)	70 mm × 147 mm × 193 mm	
Weight (with extension arm and clamping chuck)	1.56 kg	1.72kg
Operation at a terrestrial altitude	max. 2000 m	
Power supply		
Input	100 ... 240 VAC	
	1.3 A	
	50 ... 60 Hz	
Output	24 VDC	
	90 W	
Protection class	I	

Subject to technical changes!



INNOTEK-ScienceOne Pipettes —Pett Series

>>> Ergonomic design, fully autoclavable

Our single Fix and Vario pipettes can be used for many applications in the laboratory.

Color coding simplifies the rapid selection of a suitable pipette.

Resistance to impact, UV and chemicals ensures that the tip cone provides long-term reliable dosing. The Pett Fix and Vario are fully autoclavable, therefore ensuring easy sterilization. This guarantees fault-free, precise and safe operation.



- › Ergonomic design
- › Durable construction
- › A large display
- › User-friendly calibration
- › Simple maintenance and adjustment
- › Fully autoclavable

Pett Fix	IDENT. NO.	MAX. VOLUME TIP
5 µl	0020022806	10 µl
10 µl	0020022839	10 µl
20 µl	0020022840	200 µl
25 µl	0020022841	200 µl
50 µl	0020022842	200 µl
100 µl	0020022843	200 µl
200 µl	0020022844	200 µl
250 µl	0020022845	1,000 µl
500 µl	0020022846	1,000 µl
1,000 µl	0020022847	1,000 µl

Pett Vario	IDENT. NO.	MAX. VOLUME TIP
0.1 – 2 µl	0020022804	10 µl
0.5 – 10 µl	0020022831	10 µl
2 – 20 µl	0020022832	200 µl
10 – 100 µl	0020022833	200 µl
20 – 200 µl	0020022834	200 µl
100 – 1,000 µl	0020022835	1,000 µl
0.5 – 5 ml	0020022836	5 ml
1 – 10 ml	0020022838	10 ml



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