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RV 10 digital V Starter Solution

/// Data Sheet

The RV 10 digital Starter Solution package is the cost-effective complete solution for your rotary evaporator setup.

In addition to the RV 10 digital V rotary evaporator, the package includes the HB digital heating bath with a capacity of 4 liters and a heating temperature range of RT to 180 °C, a highly efficient vertical glass condenser set with 1L receiver and evaporator flask, as well as the VACSTAR lite vacuum pump with VC 10 lite vacuum controller and the RC 2 lite recirculating chiller. All components and connections required for operation are included.

RV 10 digital is a robust and reliable lab companion. Its optimized bath volume allows for fast heat-up times. The



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condenser unit has special designed glass tubes that utilize the 1500 cm² surface extremely efficient. That's why the RV 10 digital delivers reliable and reproducible process results that are usually reserved for more costly systems. Additional features such as smooth start, left-right interval or timer function capability support the user in their daily lab work. Another important aspect of the RV 10 digital are the sophisticated safety features. The motorized lift has an automated lift-out function in case of power outage to prevent superheating of the solvent. Safety temperature circuits can be set individually. Dry-run protection, adjustable lower end stop and lock function of bath setting complete the line of safety features. The RS 232 interface allows for remote control via the software labworldsoft®. The heating bath is controlled from the main unit via the IR interface.

The included VACSTAR lite vacuum pump is extremely space-saving and achieves a minimum vacuum of 9 mbar. It is controlled by the supplied VC 10 lite vacuum controller. In addition to controlling the recirculating chiller, the controller also enables manual setting of the vacuum as well as program-controlled operation.

The compact RC 2 lite recirculating chiller with a strong 400 watt cooling capacity and a powerful pressure and suction pump (0.35 bar) is designed for simple cooling tasks down to -10 °C. The easily accessible and easy-to-clean mesh filter made of stainless steel ensures a consistently high cooling performance for years. Thanks to the natural refrigerant R290, the RC 2 lite is particularly environmentally friendly and well prepared for the future.

Warranty

By registering your devices online at www.ika.com/register, you can extend the warranty of your products free of charge. For rotary evaporators and heating baths, the standard warranty is two years, plus three additional years after registration (2+3). For peripheral devices included in the package (vacuum pump and chiller), the additional warranty is one year (2+1).

Scope of delivery

- RV 10 digital FLEX
- RV 10.1 Glassware vertical
- VC 10 lite
- VACSTAR lite
- VC 10.400 Stand
- RC 2 lite
- RV 10.5005 Set of hoses
- PC 1.3 Cable



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Technical Data

Type of cooling	vertical
Cooling surface [cm ²]	1500
Motor principle	DC
Speed range [rpm]	5 - 280
Reversible direction of rotation	yes
Lift	Motor
Stroke [mm]	140
Heating temperature range [°C]	room temp. - 180
Heat output [W]	1300
Set temperature resolution [K]	1
Filling volume max. [l]	3
Timer	yes
Vacuum pump	VACSTAR lite
Pump rate max. (50/60Hz) [m ³ /h]	1.0
Pump rate max. (50/60Hz) [l/min]	16.7
Final pressure [mbar]	9
Dimensions (W x H x D) [mm]	500 x 430 x 440
Weight [kg]	20
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
Voltage [V]	220 - 240
Frequency [Hz]	50/60
Power input [W]	1400