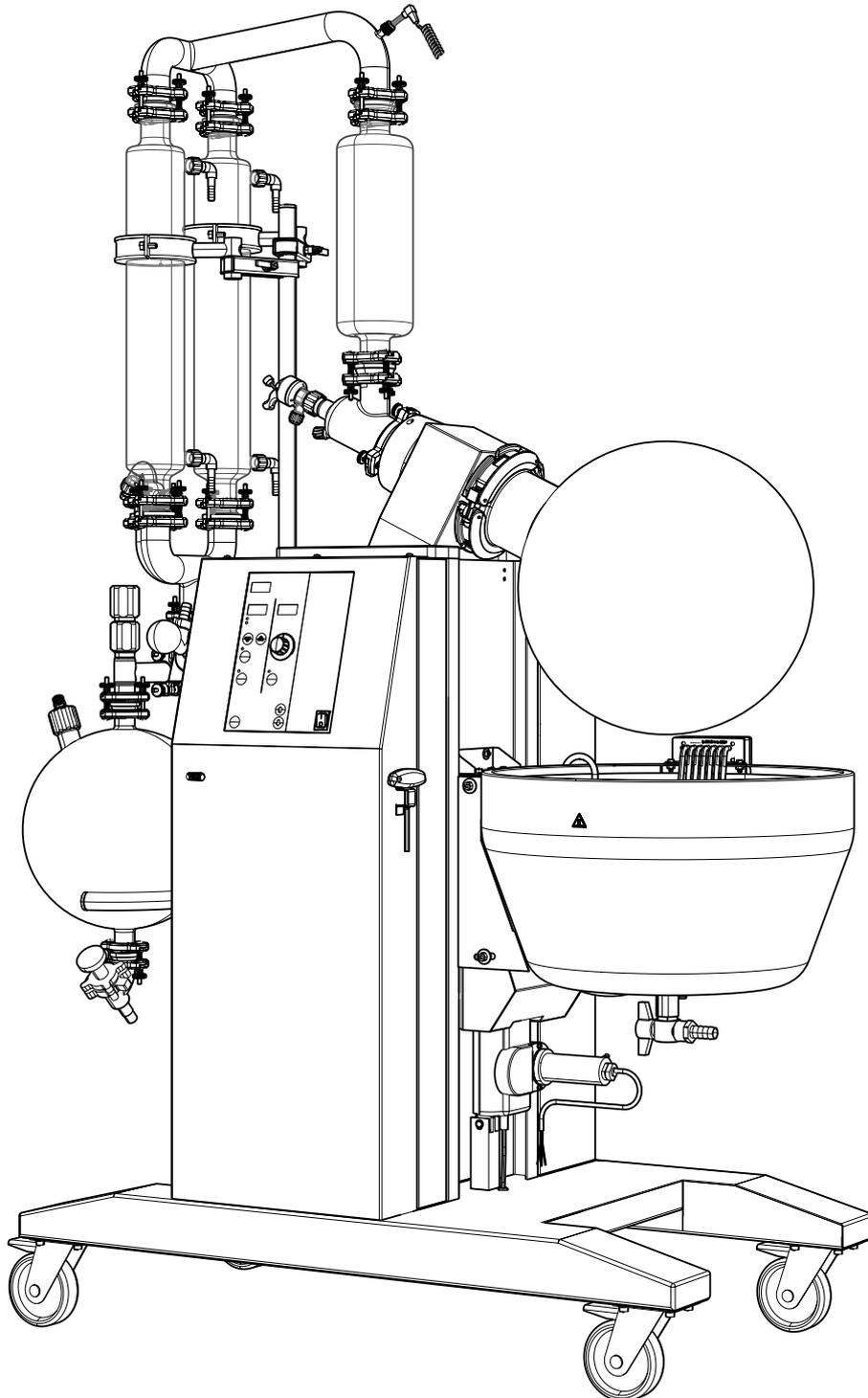




Rotavapor® R-250

Technical data sheet

Batches up to 30 liters can be quickly and safely distilled in the 50-liter evaporating flask of the R-250. The powerful heating bath allows a distillation rate up to 30 liters of acetone per hour. Choose your system out of a wide range of possibilities to get the best for your application.



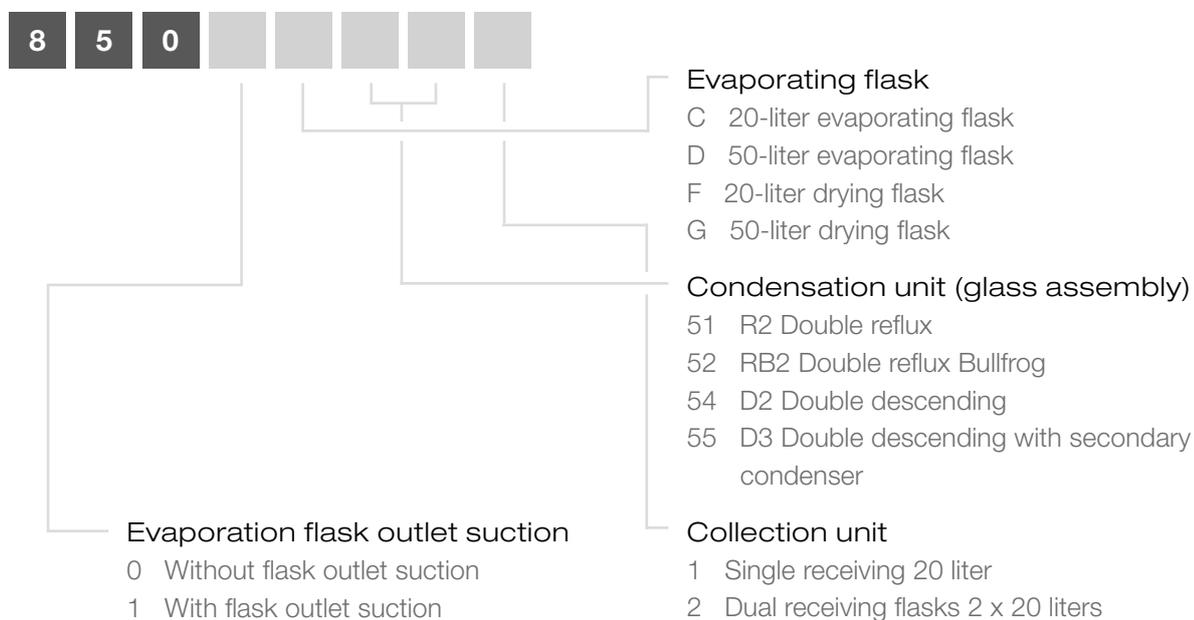
Scope of delivery

All Rotavapor R-250 models are delivered ready to use, including all needed tools and are complete of:

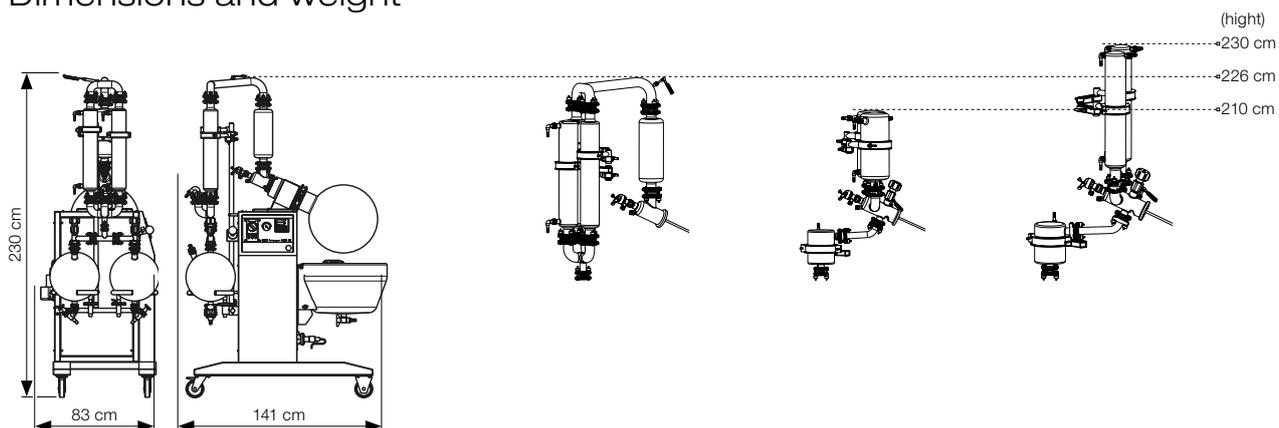
Components	R-250
Glass configuration according to order	1
Evaporating flask according to order	1
Vacuum hose to the vacuum source (PVC), 3.5 m	1
Vacuum hose to the vacuum controller (rubber), 3 m	1
Cooling water hose 19/26 (PVC), 2 m	1
Cooling water hose 14/18 (PVC), 3 m	1
Cooling water hose 10/14 (PVC), 2.2 m	1
Bath replenishment hose (PVC), 2 m	1
Feed hose (PTFE), 2 m	1
Seal removal tool	1
Operation manual	1

Order code

Choose the configuration according to your needs:



Dimensions and weight



D2	D3	RB2	R2
Low boiling points and/or foaming products		High boiling points	
Minimum emissions		Reflux reactions	
		Reduced height	

	Dimensions (W x H x D)	Weight
Assembly R2	1410 x 2300 x 830 mm	195 kg
Assembly RB2	1410 x 2100 x 830 mm	195 kg
Assembly D2	1410 x 2260 x 830 mm	200 kg
Assembly D3	1410 x 2260 x 830 mm	205 kg

Technical data

Electrical

Voltage	400 – 440 V (3Ph, N, G)
Frequency	50 – 60 Hz
Max. power consumption	7500 – 9100 W

Standards

CE marking	Yes
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Safety

Safety coated glassware	Yes, accept the evaporating flask
Over temperature protection of the bath	Separate monitoring circuit with manual reset Error if temperature is 15 °C above set value
Rotation	Soft start
At any Error	Bath lowering, heater off, rotation off Type of error showed on display Reset with main switch

Display

Bath temperature	Yes (1 °C steps)
Vapor temperature	Yes (1 °C steps)
Set rotation speed	Yes (1 rpm steps)
Set bath temperature	Yes (1 °C steps)
Actual vacuum	Optional Vacuum Controller
Set vacuum	Optional Vacuum Controller

Cooling

Consumption	200 – 400 liter/hour (adjustable via integrated needle valve)
Restriction	max. 2.7 bar abs. without pulsation

Heating (bath)

Medium	Water or oil
Temperature range	Ambient to 180 °C
Heating capacity	6600 W (3 W/cm ²)
Accuracy	+/- 2 °C

Rotation

Motor	400 V 3phase; 2 A at 50 Hz
Controlling	Frequency converter
Speed	5 – 100 rpm
Accuracy	+/- 1 rpm at 5 rpm to +/- 5 rpm at 100 rpm

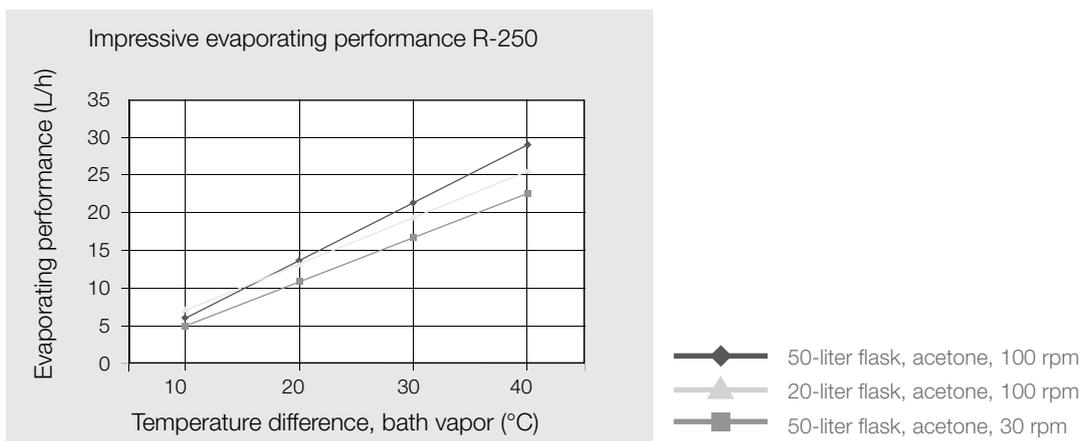
Materials

Housing	Stainless steel 1.4301 (AISI 304)
Gear head	Aluminum cast (3.2373)
Painting	Powder coated with Epoxy (EPX)
Bath pan	Stainless steel 1.4404 (AISI 316L)
Heating element	Stainless steel 1.4404 (AISI 316L)
Glass	Borosilicate 3.3
In contact with product	FDA approved materials
Leakage of the complete system	<1 mbar/min

Sensors

Vapor temperature	PT-1000, 2 wire
Bath temperature	PT-1000, 2 wire
Speed sensor	Hall-sensor
Vacuum	optional vacuum controller

Performance



For other solvents the following maximum general figures apply:

Water	Methanol	Ethanol	Toluene	Ethylacetate	Hexane	Trichlorethane
5.8 L/h	14.0 L/h	19.5 L/h	36.5 L/h	38.0 L/h	55.0 L/h	40.5 L/h

Accessories

	Order number
Vacuum Controller V-850 Display, control and regulation of vacuum.	47293
Vacuum Controller V-855 Display, control and regulation of vacuum, including gradient mode.	47292
Vacuum pump Sogevac SV40 Rotary vane pump with a flow rate of 40 m ³ /h and an ultimate vacuum of < 2 mbar.	34063
Manual flask handler 50L For easy mounting and removal of the flasks along with safe transport.	41414
Manual flask handler 20L For easy mounting and removal of the flasks along with safe transport.	41410
Foam detector Internal sensor detects rising foam and triggers a short aeration pulse, eliminating foam. Only in combination with a descending glass assembly.	40507
Vacuum valve for R-250 for vacuum controller, 24 V, 4 mm For use with a 50 L Rotavapor, hose connection 18 mm	31355

	Order number
Vapor duct with sinter plate With frit P3 protects the condenser assembly against powder and dust during the drying process.	41100
Splash protector A polycarbonate splash protector mounted on the bath, protects against splashing.	41420
Flask crane For the safely secured transport of a 50 liter flask. Incl. the 50 liter manual flask handler.	41494
IQ / OQ	40786