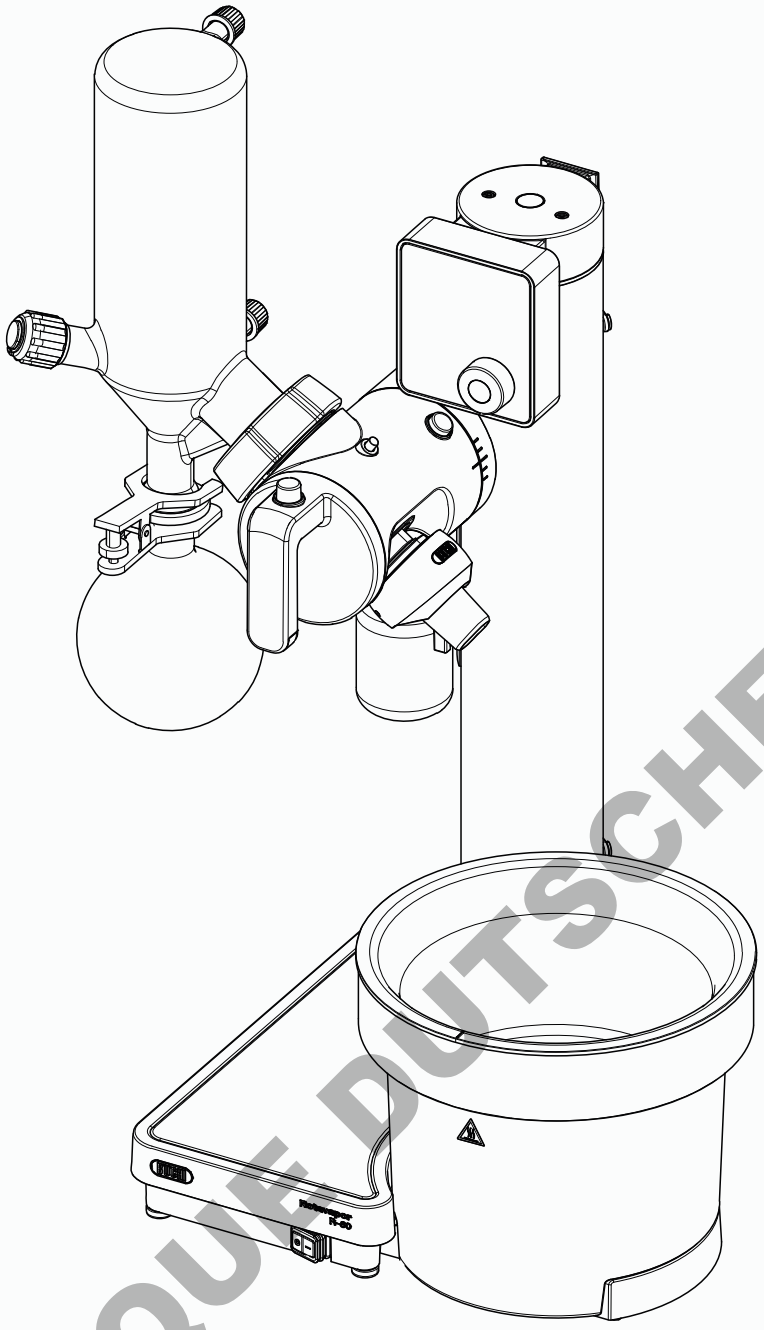


DOMINIQUE DUTSCHER SAS

Technical data sheet

Rotavapor® R-80

The Rotavapor® R-80 is a high-quality rotary evaporator to meet the essential needs in classical laboratory applications. The central tunable interface presents all distillation parameters at a glance and a smooth manual lift together with a cable-free, movable bath ensures reliable, quick and ergonomic positioning of the evaporating flask.

Scope of delivery

All configurations are supplied ready to use.

NOTE

The scope of delivery depends on the configuration of the purchase order.

Accessories are delivered as per the purchase order, order confirmation, and delivery note.

Components	Rotavapor® with glass assembly	Rotavapor® without glass assembly	Rotavapor® with vacuum solution
Rotavapor® R-80	1	1	1
Heating Bath R-80	1	1	1
Condenser (according to order code)	1	-	1
Vapor duct (with Combi-Clip)	1	1	1
Vacuum seal (VS22)	1	1	1
Evaporating flask (max. 1 L)	-	-	-
Receiving flask (1 L)	1	-	1
Woulff bottle	-	-	1
Set of required cooling/vacuum tubes and connectors	1	-	1
Power cable	1	1	1
Interface I-80 / I-180 (Vacuum Interface)	-	-	1
Vacuum Pump V-80 / V-180	-	-	1

DOMINIQUE DUTSCHER SAS

Order code

Choose the configuration according to your needs:

1	1	S	R	0	8	0				0	

Standard Joint

1 SJ 29/32 vapor duct
2 SJ 24/40 vapor duct

Glass assembly

V small
Vertical P+G, incl. receiving flask 1000 mL P+G, excl. evaporating flask
C small
Cold trap P+G-LT, incl. receiving flask 1000 mL P+G-LT, excl. evaporating flask
N Without

Vacuum solution

0 Without
1 V-80 solution
incl. Woulff bottle, Vacuum Pump V-80, Interface I-80 for manual vacuum control
2 V-180 solution
incl. Woulff bottle, Vacuum Pump V-180, Interface I-180 for automatic vacuum control

Voltage

1 220 – 240 V
2 100 – 120 V

DOMINIQUE DUTSCHER SAS

Technical data

Rotavapor® R-80

Specification	Value
Dimensions (W × D × H)	345 mm × 315 mm × 590 mm
Dimensions (W × D × H) with V condenser and power plug	430 mm × 360 mm × 705 mm
Weight with condenser	9 kg
Connection voltage	100 – 120 VAC ± 10% 220 – 240 VAC ± 10%
Frequency	50 / 60 Hz
Power consumption	1,150 W
Fuse	T 12.5 A H 250 V (100 – 120 V) T 6.3 A H 250 V (220 – 240 V)
Overvoltage category	II
IP Code	IP42
Pollution degree	2
Minimum clearance on all sides	none
Display type	3" Dark segment display
Heating power	1,000 W
High temperature cut-out	140 °C
Heating bath temperature range	Up to 95 °C
Heating bath adjustment accuracy	± 1 °C
Heating bath regulation precision	± 2 °C
Heating bath inner diameter	175 mm
Heating bath capacity	2 L
Heating bath fluid	Water
Typical heating-up time (20°C to 95°C)	14 min
Max. flask size	1,000 mL
Max. flask capacity	800 g
Immersion angle	20 – 50°
Rotation speed range	10 – 330 rpm
Adjustable lift height	180 mm
Cooling surface (V condenser)	1,280 cm^2
Cooling temperature display range	-99 – 99 °C
Certificate	CB, CE, UL / CSA

Ambient conditions

For indoor use only.

Specification	Value
Max. altitude above sea level	2,000 m
Ambient and storage temperature	5 – 40 °C

DOMINIQUE DUTSCHER SAS

Specification	Value
Max. relative humidity	80% for temperatures up to 31 °C decreasing linearly to 50% relative humidity at 40 °C

DOMINIQUE DUTSCHER SAS

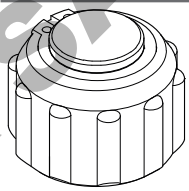
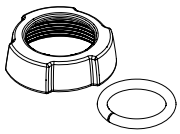
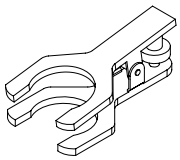
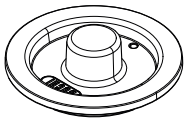
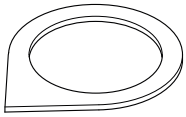
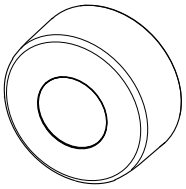
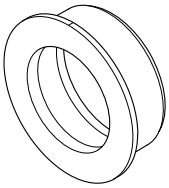
Spare parts and accessories

Use only genuine BUCHI consumables and spare parts in order to ensure correct, safe and reliable operation of the system.

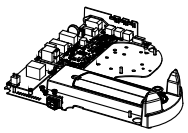
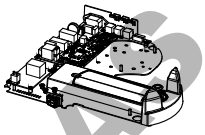
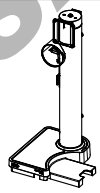
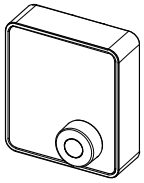
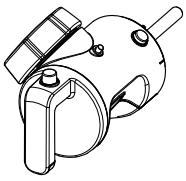
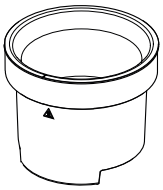
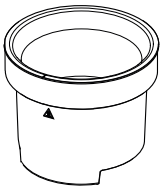
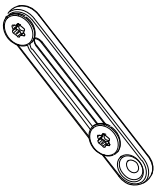
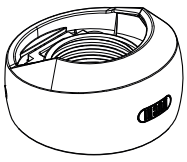
NOTE

Any modifications of spare parts or assemblies are only allowed with the prior written permission of BUCHI.

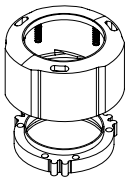
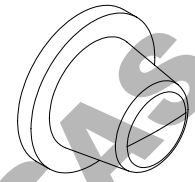
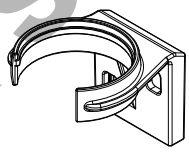
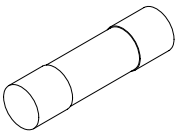
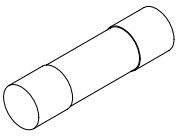
Spare parts

	Order no.	Image
Aeration cap	046574	
Flange nut with pressure spring	11062387	
Ball joint clamp. For BJ 35/20 To fasten receiving flask on condenser/secondary condenser.	003275	
Lid. For C condenser	11075812	
Drain sleeve, set 5 pcs.	028606	
Navigation control knob	11074581	
Sliding ring Encircles the installed vapor duct.	032005	

DOMINIQUE DUTSCHER SAS

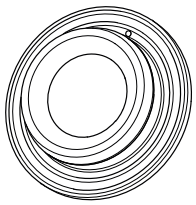
	Order no.	Image
Base R-80 100 – 120 V, complete	11080626	
Base R-80 220 – 240 V, complete	11080627	
Tower R-80, complete	11080628	
Interface R-80, complete	11080629	
Rotary drive arm R-80, complete	11080630	
Heating bath R-80 100 – 120 V, complete	11080631	
Heating bath R-80 220 – 240 V, complete	11080632	
Cable and tubing fixtures. Set. 3 pcs. Content: Rubber strips, screws	11080633	
Combi-Clip Combi-Clip with snap lock mechanism to fasten evaporating flask on vapor duct. Vapor duct not included.	11075539	

DOMINIQUE DUTSCHER SAS

	Order no.	Image
Beaker fastener, Connection with bayonet mount, for 500 mL For beaker flask 500 mL	11059810	
Sieve for cooling water valve, Ø18 mm	011514	
Woulff bottle holder	11075161	
Receiving vessel, GL 40, 125 mL, P+G For Woulff bottle	047233	
Fuses, set. 10 pcs. T 12.5A H 250V (100 – 120 V), 20 mm, Ø5 mm	047939	
Fuses, set. 10 pcs. T 6.3A H 250V (220 – 240 V), 20 mm, Ø5 mm	11075587	

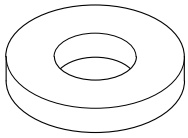
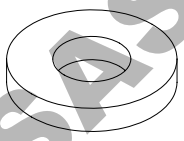
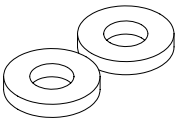
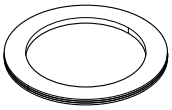
Wear parts

Vacuum seal

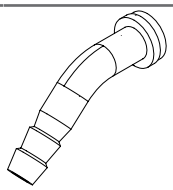
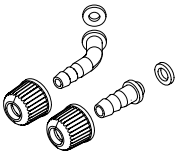
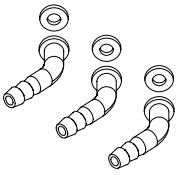
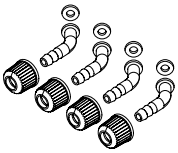
	Order no.	Image
Vacuum seal VS 22, PTFE base, NBR O-ring, FDA compliant	11075810	

DOMINIQUE DUTSCHER SAS

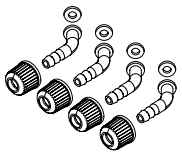
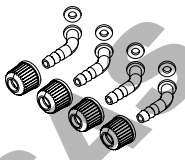
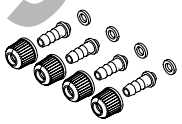
Seals

	Order no.	Image
Seals, set. 10 pcs, for hose barbs GL 14, EPDM, black	040029	
Seals, set. 10 pcs, for hose barbs GL 14, FPM, green	040040	
Seals, set. 10 pcs, for hose barbs GL 14, silicone, red	040023	
Seal Woulff bottle	047165	

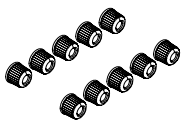
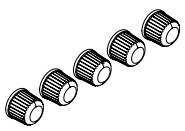
Hose barbs

	Order no.	Image
Hose barb, bent, GL 14, incl. silicone seal	018916	
Hose barbs, set. 2 pcs, bent (1), straight (1), GL 14, silicone seal Content: Hose barbs, cap nuts, seals	041939	
Hose barbs, set. 3 pcs, bent, GL 14, silicone seal Content: Hose barbs, seals.	041987	
Hose barbs, set. 4 pcs, bent GL 14, silicone seal Content: Hose barbs, cap nuts, seals	037287	

DOMINIQUE DUTSCHER SAS

	Order no.	Image
Hose barbs, set. 4 pcs, bent, GL 14, EPDM seal Content: Hose barbs, cap nuts, seals.	043129	
Hose barbs, set. 4 pcs, bent, GL 14, FPM seal Content: Hose barbs, cap nuts, seals.	040295	
Hose barbs, set. 4 pcs, straight, GL 14, EPDM seal Content: Hose barbs, cap nuts, seals.	043128	
Hose barbs, set. 4 pcs, straight, GL 14, FPM seal Content: Hose barbs, cap nuts, seals.	040296	
Hose barbs, set. 4 pcs, straight, GL 14, silicone seal Content: Hose barbs, cap nuts, seals	037642	
Hose barbs, set. 6 pcs, bent (4), straight (2), GL 14, silicone seal Content: Hose barbs, cap nuts, seals.	038000	

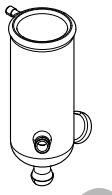
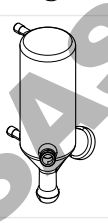
Miscellaneous wear parts

	Order no.	Image
Cap nuts, set. 10 pcs, screw cap with hole, GL 14	041956	
Screw caps, set. 5 pcs, closed with PTFE seal, GL 14	040624	

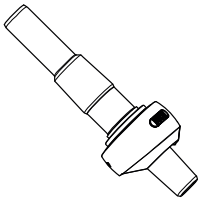
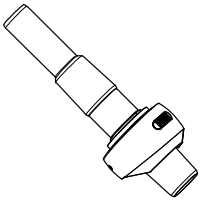
Glass parts

DOMINIQUE DUTSCHER SAS

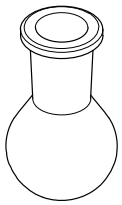
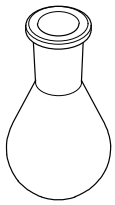
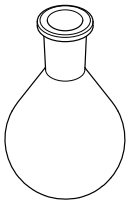
Condenser

	Order no.	Image
Condenser C mini. Cold trap, 450 cm², 35° tilt angle, P+G-LT, incl. lid	11075732	
Condenser V mini. Vertical condenser, 1280 cm², 35° tilt angle, P+G	11075730	

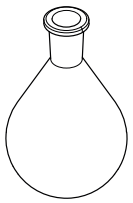
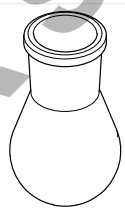
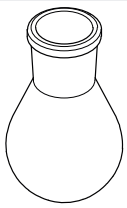
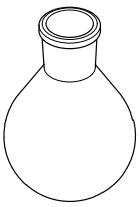
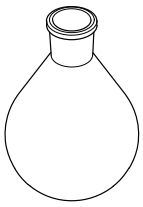
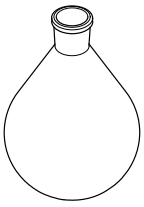
Vapor duct

	Order no.	Image
Vapor duct For V/C cond., Ø22 mm, SJ 24/40, incl. Combi-Clip	11075727	
Vapor duct For V/C cond., Ø22 mm, SJ 29/32, incl. Combi-Clip	11075728	

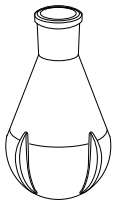
Evaporating flask

	Order no.	Image
Evaporating flask Glass, SJ 24/40, 50 mL	008750	
Evaporating flask Glass, SJ 24/40, 100 mL	008751	
Evaporating flask Glass, SJ 24/40, 250 mL	008754	

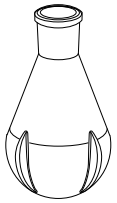
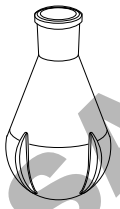
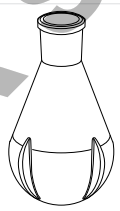
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	Order no.	Image
Evaporating flask Glass, SJ 24/40, 500 mL	008758	
Evaporating flask Glass, SJ 24/40, 1000 mL	000440	
Evaporating flask Glass, SJ 29/32, 50 mL	000431	
Evaporating flask Glass, SJ 29/32, 100 mL	000432	
Evaporating flask Glass, SJ 29/32, 250 mL	000433	
Evaporating flask Glass, SJ 29/32, 500 mL	000434	
Evaporating flask Glass, SJ 29/32, 1000 mL	000435	

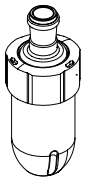
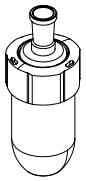
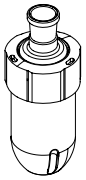
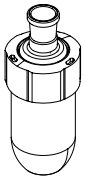
Drying flask

	Order no.	Image
Drying flask Glass, SJ 24/40, 500 mL With 4 indents for better mixing/drying.	011579	

DOMINIQUE DUTSCHER SAS

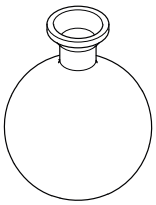
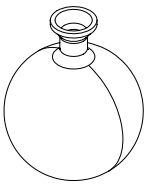
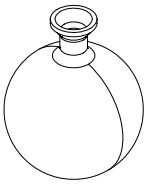
	Order no.	Image
Drying flask Glass, SJ 24/40, 1000 mL With 4 indents for better mixing/drying.	000420	
Drying flask Glass, SJ 29/32, 500 mL With 4 indents for better mixing/drying.	000452	
Drying flask Glass, SJ 29/32, 1000 mL With 4 indents for better mixing/drying.	000453	

Beaker flask

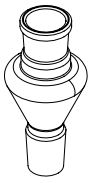
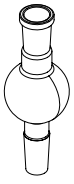
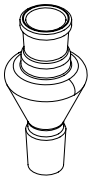
	Order no.	Image
Beaker flask, Drying, bayonet type, flat bottom, SJ 24/40, 500 mL Bayonet mount type Ø75 mm. With 4 indents for better mixing/ drying. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.	11063159	
Beaker flask, Evap., bayonet type, flat bottom, SJ 24/40, 500 mL Bayonet mount type Ø75 mm. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.	11063155	
Beaker flask, Drying, bayonet type, flat bottom, SJ 29/32, 500 mL Bayonet mount type Ø75 mm. With 4 indents for better mixing/ drying. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.	11063158	
Beaker flask, Evap., bayonet type, flat bottom, SJ 29/32, 500 mL Bayonet mount type Ø75 mm. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.	11063154	

DOMINIQUE DUTSCHER SAS

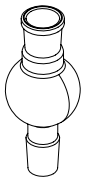
Receiving flask

	Order no.	Image
Receiving flask Glass, BJ 35/20, 500 mL	000424	
Receiving flask Glass, BJ 35/20, 500 mL, P+G	025264	
Receiving flask Glass, BJ 35/20, 500 mL, P+G-LT Application temperature: -70 to 40 °C.	040774	
Receiving flask Glass, BJ 35/20, 1000 mL, P+G	020728	
Receiving flask Glass, BJ 35/20, 1000 mL, P+G-LT Application temperature: -70 to 40 °C.	040775	

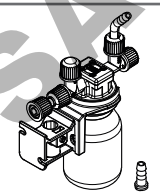
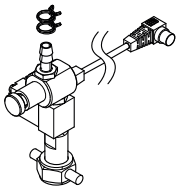
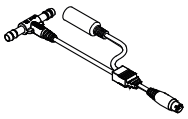
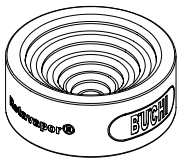
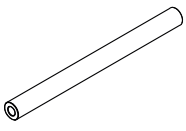
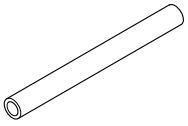
Bump trap adapter

	Order no.	Image
Bump trap adapter Glass, Reitmeyer, SJ 24/40, 150 mm	036577	
Bump trap adapter Glass, SJ 24/40, 175 mm	11056919	
Bump trap adapter Glass, Reitmeyer, SJ 29/32, 135 mm	036576	

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	Order no.	Image
Bump trap adapter Glass, SJ 29/32, 160 mm	11056920	

Accessories

	Order no.	Image
Woulff bottle, 125 mL, P+G, incl. holder For trapping particles and droplets and for pressure equalization.	11075622	
Cooling water valve, 24 VAC Valve opens cooling water feed during distillation.	031356	
Cooling water temperature sensor	11075306	
Flask holder, EPDM, slip free Holder for round-bottom flasks (50 – 5000 mL)	048618	
Flask holders, set. 5 pcs, EPDM, slip free Holder for round-bottom flasks (50 – 5000 mL)	11059916	
Heating bath balls, 450 pcs, PP, Ø10 mm To reduce energy consumption of heating bath and for less evaporation of the heating medium. For temperatures up to 100°C.	036405	
Tubing, synthetic rubber, Ø6/13 mm, black, per m Use: Vacuum	11063244	
Tubing, silicone, Ø6/9 mm, transparent, per m Use: Cooling media	004133	

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