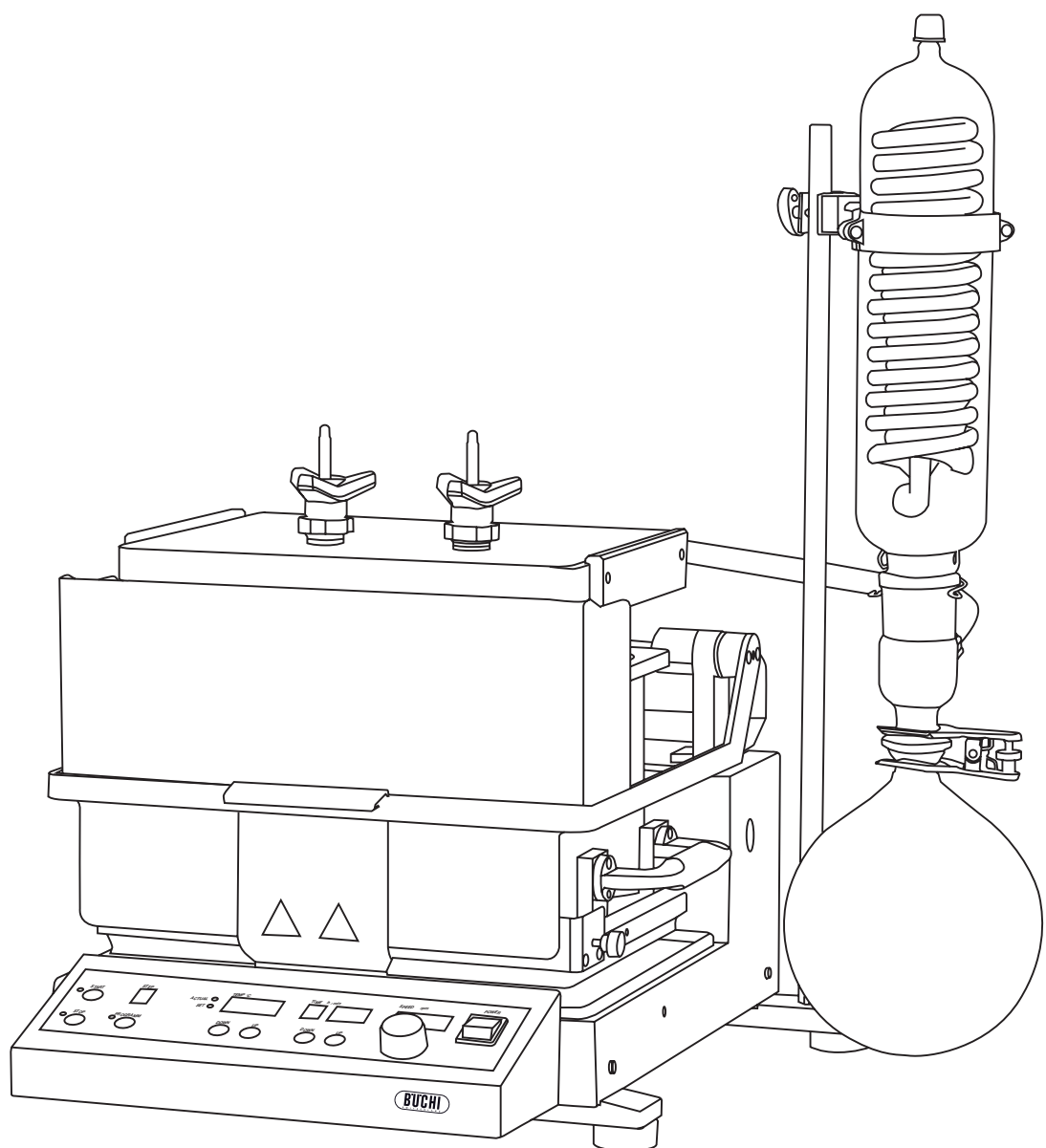# Syncore® Polyvap
Technical data sheet

Parallel evaporation of multiple samples is an essential prerequisite to increase productivity in parallel and multistage synthesis, extraction, quality control and chromatography. The Syncore® Polyvap provides a quick and safe solution even with high-boiling solvents. Interchangeable racks make it possible to evaporate samples ranging in volume from 0.5 to 500 mL.
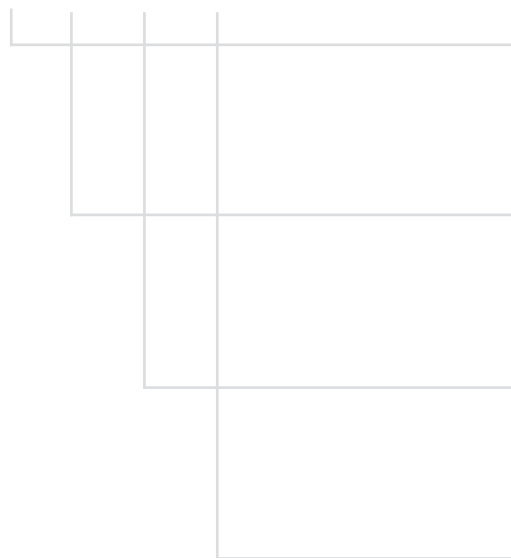
Scope of delivery

Components	Syncore® Polyvap					
	R-4	R-6	R-12	R-24	R-48	R-96
Syncore platform	1	1	1	1	1	1
Condenser unit	1	1	1	1	1	1
Polyvap rack	1	1	1	1	1	1
Sample tubes	4	6	12	50	100	100
Vacuum cover	1	1	1	1	1	1
Syncore application guide	1	1	1	1	1	1
Operation manual	1	1	1	1	1	1
Vacuum tubing	0.6 m	0.6 m	0.6 m	0.6 m	0.6 m	0.6 m
Cooling water tubing	3.0 m	3.0 m	3.0 m	3.0 m	3.0 m	3.0 m

Order code

Choose the configuration according to your needs:

1	P					0	0	0

Voltage
1   100 V 50/60 Hz
2   120 V 50/60 Hz
3   230 V 50/60 Hz

Condenser
0   None
S   Type S, standard for chiller or tap water, P+G coated
C   Type C, cold trap for dry ice cooling, P+G coated

Round receiving flask, KS24/20, P+G coated
0   None
1   1000 mL volume
2   2000 mL volume
3   3000 mL volume

Rack type (incl. vacuum cover)
0   None
1   Crystal rack R-4 Polyvap
2   Crystal rack R-6 Polyvap
3   Rack R-12 Easy-Fill Polyvap
4   Rack R-24 Easy-Fill Polyvap
5   Rack R-24 Easy-Fill Falcon
6   Rack R-96 Easy-Fill Polyvap
7   Rack R-24 Easy-Fill PSE
8   Rack R-48 Easy-Fill Polyvap

Dimensions and weight

	Dimensions (W x H x D)	Weight
Syncore® platform (without rack and tubes)	480 x 354 x 487 mm	30 kg

Technical data

	230 V ±10 %	120 V ±10 %	100 V ±10 %
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Power consumption of platform	1500 W	1500 W	1500 W
Power take-up of the heated vacuum cover	max. 120 W	max. 120 W	max. 120 W
Maximum temperature	+150 °C		
Temperature of vacuum cover	room temperature to +70 °C		
Rotation speed	0 - 600 rpm		
Pre-set safety settings	speed, min. to max. temperature, AutoStart		
Connections	TTL for an external ON / OFF signal		
Valve connection for cooling plate option	24 V DC, temperature-controlled, hysteresis 0.5 °C		
Valve connection for cooling water	24 V DC, programmable		

Table of requirements for Syncore® Polyvap

See respective product brochures, and technical data sheets for more information. A recirculating chiller with a minimum cooling capacity of 900 W (at 15 °C cooling temperature) is required for proper operation.

Cooling agent flowrate	min. 2.5 L/min	max. 11 L/min
Cooling agent pressure	min. 0.6 bar	max. 1 bar
Cooling capacity at 15 °C	min. 900 W	max. 1400 W

Complementary products

	Recirculating Chiller		Vacuum Pump	
	F-308	F-314	V-300	V-600
Syncore®	manually controlled	manually controlled	autonomous	autonomous
Syncore® with I-300 / I-300 Pro	controlled	controlled	speed controlled	speed controlled

Explanation of terms

autonomous:	The peripheral (chiller / pump) can be turned On and Off by its own power switch only
speed controlled:	The peripheral (pump) is turned On and Off as well as speed controlled via interface
controlled:	The peripheral (chiller) is turned On and Off and the temperature can be set via interface, actual temperature is displayed on the interface
manually controlled:	The parameters can be adjusted via peripherals control buttons

Accessories

Vessels	Order number
Set of 4 vessels for rack R-4 Crystal For working volumes up to 500 mL	038487
Set of 6 vessels for rack R-6 Crystal For working volumes up to 250 mL	038486
Set of 12 vessels for rack R-12 Easy-Fill For working volumes up to 120 mL	040907

Tubes	Order number
Set of 50 standard test tubes for rack R-24 Easy-Fill For working volumes up to 30 mL	038469
Set of 50 standard test tubes Set consists of standard test tubes and screw caps	038468
Set of 72 SpeedExtractor tubes For working volumes up to 60 mL and screw caps	049535
Set of 100 standard test tubes for rack R-48 Easy-Fill For working volumes up to 20 mL	042845
Set of 100 test tubes for rack R-96 Easy-Fill For working volumes up to 10 mL	038543

Sample holder	Order number
Sample holder format R-4 For single sample tube preparation	11062988
Sample holder format R-6 For single sample tube preparation	11062989
Sample holder format R-12 For single sample tube preparation	11062990

Sample preparation rack	Order number
Sampel preparation rack R-4 For sample batch preparation and transfer	040075
Sample preparation rack R-6 For sample batch preparation and transfer	040076

Sample preparation rack R-12 For sample batch preparation and transfer	040077

Lids	Order number
Lids for R-6 tubes Set of 6 PTFE lids	048689
Lids for R-12 tubes Set of 12 PE-LD lids	048690

Condensers	Order number
Condenser type S Including a 1000 mL receiving flask	037690
Condenser type S Including a 2000 mL receiving flask	040146
Condenser type C Including a 1000 mL receiving flask	038371
Condenser type C Including a 2000 mL receiving flask	040147

Racks	Order number
Crystal polyvap rack R-4 For working volumes up to 500 mL	047790
Crystal polyvap rack R-6 For working volumes up to 250 mL	047770
Polyvap rack R-12 Easy-Fill For working volumes up to 120 mL	040900
Polyvap rack R-24 Easy-Fill For working volumes up to 30 mL	038188
Polyvap rack R-24 Easy-Fill, for PSE tubes For working volumes up to 20 mL	042660
Polyvap rack R-48 Easy-Fill For working volumes up to 20 mL	042855
Polyvap rack R-96 Easy-Fill For working volumes up to 10 mL	038277

Vacuum covers	Order number
Vacuum cover R-4 Heatable, with individual sample connection, for all rack formats R-4	038245
Vacuum cover R-6 Heatable, with individual sample connection, for all rack formats R-6	038246

Vacuum covers	Order number
Vacuum cover R-12 Analyst and R-12 Easy-Fill Heatable, with individual sample connection, for all rack formats R-12	040910
Vacuum cover R-24 Easy-Fill Heatable, with individual sample connection, for all rack formats R-24 Easy-Fill	040920
Vacuum cover R-48 Easy-Fill Heatable, with individual sample connection, for all rack formats R-48 Easy-Fill	042850
Vacuum cover R-96 Easy-Fill Heatable, with individual sample connection, for all rack formats R-96 Easy-Fill	040930

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