

Системы всасывающие CARL ROTH biovac 106, AZ 02, AZ 04, AC 02, AC 04, AA 02, AA 04, BVC Basic G, BVC Basic, BVC Control G, BVC Control, BVC Professional G, BVC Professional, Rubber

Технические характеристики

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Suction systems



Extraction system biovac 106

WELCH Vacuum.

For safe and precise extraction of liquid, non-explosive residues from slides, Petri dishes and other containers.

- Incl. chemical-resistant diaphragm pump with long service life
- Connections to the diaphragm pump and to the handpiece via quick couplings with double-sided shut-off valve
- The pipette holder enables a variety of pipette tips or glass tips to be used. Delivery incl. eight-channel suction rake
- Integrated collection container (autoclavable) with integrated float valve, closes automatically once the max. fill level has been reached
- Integrated filter mount for diaphragm filter between the collection container and the diaphragm pump. Diaphragm filters up to max. pore size of 0.22 µm, Ø 55 mm can be used. Factory-integrated: 0.22 µm PTFE filter, Ø 55 mm
- If necessary, the pump can be switched on via a footswitch which can be purchased as an option

Technical specifications:

Art. No.	KH49.1
Type	biovac 106
Bottle volume	2,000 ml
Delivery rate	12 l/min, 0,72 m³/h
End vacuum (abs.)	100 mbar
Overpressure	1 bar
Ambient temperature	+10 – +40 °C
W x D x H	357 x 145 x 277 mm
Weight	8 kg
Mains connection	115–230 V, 50/60 Hz

Note: When the quick couplings are fitted, unscrew the cap before autoclaving and place it on the bottle.

Delivery incl. mains adapter.

Type	Art. No.	Pack Qty.	
biovac 106	KH49.1	1 unit(s)	



Extraction system

Hettich Benelux.

For safe vacuum extraction of liquid residues.

Basic equipment:

- Vacuum pump
- Collecting bottle made of PP, vacuum-resistant, autoclavable
- Screw cap with two quick-release couplings for tight sealing of the collecting bottle after the hoses are disconnected
- Ventilation insert for pressure compensation during autoclaving of collecting bottle
- Safety filter to protect the vacuum pump and surrounding area
- Silicone hose (3 m) for placing the extraction system away from the workbench

Technical specifications:

Art. No.	CE30.1	CE31.1	HA39.1	HA40.1	CE32.1	CE33.1
Type	AZ 02	AZ 04	AC 02	AC 04	AA 02	AA 04
Bottle volume	2,000 ml	4,000 ml	2,000 ml	4,000 ml	2,000 ml	4,000 ml
Delivery rate	8 l/min		25 l/min		17 l/min	
End vacuum (abs.)	700 mbar		250 mbar		100 mbar	
Ambient temperature	+4 – +40 °C					
W x D x H	75 x 170 x 60 mm		170 x 220 x 155 mm			
Weight	1.5 kg		4.5 kg		5.5 kg	
Mains connection	230 V, 50 Hz					

Note: When the quick couplings are fitted, unscrew the cap before autoclaving and place it on the bottle.

AZ model

- Simple system for extraction of small volumes
- Attachment of Pasteur pipettes or aspiration pipettes directly to the hose
- Please order metal stand for the collecting bottle separately

Pic.	Type	Art. No.	Pack Qty.	
(1)	AZ 02	CE30.1	1 unit(s)	
(1)	AZ 04	CE31.1	1 unit(s)	

AC model

- Lacquered aluminium housing
- Compact design, safety bottle holder mounted on high-performance vacuum pump
- Suitable for up to two sampling points (optional)

Pic.	Type	Art. No.	Pack Qty.	
(2)	AC 02	HA39.1	1 unit(s)	
(2)	AC 04	HA40.1	1 unit(s)	

AA model

- Lacquered aluminium housing
- Compact design, safety bottle holder mounted on high-performance vacuum pump
- Suitable for up to four sampling points (optional)
- Handle with AH 01 trumpet valve for attaching various suction instruments and a mechanical flow rate control system; incl. adapter for Pasteur pipettes, adapter for 1 ml pipette tips and angle adapter
- Vacuum pump with automatic cut-out. The pump cuts out automatically when extraction is completed using the handle and the final vacuum is reached

Pic.	Type	Art. No.	Pack Qty.	
(3)	AA 02	CE32.1	1 unit(s)	
(3)	AA 04	CE33.1	1 unit(s)	



Suction systems

Extraction system BioChemVacuuCenter BVC

Vacuubrand.

Safe, precise and effective extraction of liquids in all areas of laboratory work (chemistry, biochemistry and biology).

- Ergonomic VHC^{pro} extraction handle with continuous tube; mechanism does not come into contact with fluids
- With swivelling pipette holder, for left- and right-handed users
- Lockable button for continuous extraction, µl precision extraction using thumbwheel
- Simultaneous extraction at two workstations is possible by connecting an optional second extraction handle
- Hydrophobic protective filter with 0.2 µm pore size for protection of the pump unit and the surrounding area



Technical specifications:

Art. No.	1EP8.1	XE35.1	1EP9.1	XE36.1	1EPA.1	XE37.1
Type	BVC Basic G	BVC Basic	BVC Control G	BVC Control	BVC Professional G	BVC Professional
Bottle volume	2,000 ml	4,000 ml	2,000 ml	4,000 ml	2,000 ml	4,000 ml
Pump type	without		ME 1C			
Delivery rate			11,7 l/min, 0,7 m³/h			
End vacuum (abs.)			150 mbar			
Control range			850 – 150 mbar			
Ambient temperature			+10 – +40 °C			
L x W x H	230 x 180 x 430 mm	250 x 200 x 490 mm	408 x 194 x 430 mm	408 x 194 x 500 mm	408 x 194 x 430 mm	408 x 194 x 500 mm
Weight	3,2 kg	2,8 kg	7,7 kg	7,3 kg	7,7 kg	7,3 kg
Mains connection	230 V, 50/60 Hz					

(1) Basic model

- Without vacuum pump, for connecting to external vacuum sources
- With mechanical vacuum controller for optimal working volume

Delivery incl. housing, collecting bottle (vacuum-resistant, autoclavable), sterilisable protective filter (0.2 µm pore size), VHC^{pro} extraction handle (autoclavable), three adapters for mounting different pipettes and tips, silicone hose (length: 2 m).

Type	Version	Art. No.	Pack Qty.
BVC Basic G	2 l glass collecting bottle, with hose nozzles	1EP8.1	1 unit(s)
BVC Basic	4 l PP collecting bottle, with hose nozzles	XE35.1	1 unit(s)

(2) Control model

- With powerful, chemical-resistant ME 1C diaphragm pump (switch-off vacuum of 150 mbar abs., delivery rate of 11.7 l/min)
- Continuous precision adjustment of vacuum/suction power electronically via touch panel
- Continuous vacuum with minimised pumping times thanks to automatic pump activation/deactivation
- Very low noise level for a pleasant working environment

Delivery incl. diaphragm pump and control unit, housing, collecting bottle (vacuum-resistant, autoclavable), sterilisable protective filter (0.2 µm pore size), VHC^{pro} extraction handle (autoclavable), three adapters for mounting different pipettes and tips, silicone hose (length: 2 m).

Type	Version	Art. No.	Pack Qty.
BVC Control G	2 l glass collecting bottle, with hose nozzles	1EP9.1	1 unit(s)
BVC Control	4 l PP collecting bottle, with hose nozzles	XE36.1	1 unit(s)

(3) Professional model

- With powerful, chemical-resistant ME 1C diaphragm pump (switch-off vacuum of 150 mbar abs., delivery rate of 11.7 l/min)
- Continuous precision adjustment of vacuum/suction power electronically via touch panel
- Continuous vacuum with minimised pumping times thanks to automatic pump activation/deactivation
- Very low noise level for a pleasant working environment
- non-contact fill level sensor for electronic monitoring of the fluid level in the collecting bottle
- Disinfection routine for the suction hose for drawing in disinfectants after the pump is shut down automatically

Delivery incl. diaphragm pump and control unit, fill level sensor, housing, collecting bottle (vacuum-resistant, autoclavable), sterilisable protective filter (0.2 µm pore size), VHC^{pro} extraction handle (autoclavable), three adapters for mounting different pipettes and tips, silicone hose (length: 2 m).

Type	Version	Art. No.	Pack Qty.
BVC Professional G	2 l glass collecting bottle, with hose nozzles	1EPA.1	1 unit(s)
BVC Professional	4 l PP collection bottle, with self-closing quick couplings	XE37.1	1 unit(s)

Water jet pumps



Water jet pump

ROTH SELECTION. Material: PP.

For extraction of liquids and vapours as well as generating vacuum.
With built-in non-return valve. Can be disassembled, making cleaning easy.

Connection for the tap:

- Union nut R $\frac{3}{4}$ " or
- Reducer R $\frac{1}{2}$ " or
- Hose connection (connector) with outer Ø 10–12 mm
- Optional accessory (please order separately):
Adapter from R $\frac{3}{4}$ " to M22 x 1 (Perlator thread), with seal

Vacuum connection:

- Connector with outer Ø 6–9 mm

Technical specifications:

- Water consumption: Approx. 220 l/h at a flow pressure of 3.5 bar
- Delivery rate: Approx. 450 l of air/h at a flow pressure of 3.5 bar
- Abs. end vacuum at a water pressure of 3.5 bar:
Approx. 16 mbar at +12 °C
Approx. 24 mbar at +20 °C
- Length of the water jet pump with R $\frac{3}{4}$ " connection: Approx. 210 mm

Version	Art. No.	Pack Qty.	
Water jet pump	7366.1	1 unit(s)	

Accessories adapter for water jet pump

Vitlab.

Designation	Art. No.	Pack Qty.	
Adapter with Perlator thread	N876.1	1 unit(s)	



Low-pressure water jet pump

Thermo. Material: Brass nickel-plated with plastic sleeve.
With built-in non-return valve.

Technical specifications:

- Water consumption: 4–12 l/min
- Delivery rate: 2.5 l/min (at a water pressure of 5 bar)
- Abs. end vacuum: 16 mbar (at 0.5 bar and +14 °C)
- Dimensions: H 185 x W 80 mm
- Weight approx. 250 g
- Suction piece connection, 9–14 mm

Version	Art. No.	Pack Qty.	
with tubing connection and 2 hose clips	9660.1	1 unit(s)	
with $\frac{1}{2}$ " screw connection (20 mm)	9661.1	1 unit(s)	
with $\frac{3}{4}$ " screw connection (26 mm)	9662.1	1 unit(s)	



Tube ROTILABO® Rubber

ROTH SELECTION. Material: Natural rubber.

Not pressure-resistant.

Standard design

Technical specifications:

Temperature stability	-10 to +50 °C
Colour	red
Hardness	45 Shore A

Ø Internal (mm)	Ø ext. (mm)	Wall thickness (mm)	Art. No.	Pack Qty.	
5	8	1,5	0674.1	10 m	
6	10	2,0	0675.1	10 m	
6	10	2,0	0675.2	25 m	
8	12	2,0	0676.1	10 m	
8	12	2,0	0676.2	25 m	
10	14	2,0	0677.1	10 m	
12	17	2,5	T981.1	12 m	
14	20	3,0	T982.1	12 m	
16	22	3,0	T983.1	12 m	
20	28	4,0	T984.1	5 m	

Vacuum design

Ø Internal (mm)	Ø ext. (mm)	Wall thickness (mm)	Art. No.	Pack Qty.	
5	15	5,0	0678.1	5 m	
6	16	5,0	0679.1	5 m	
6	16	5,0	0679.2	25 m	
8	18	5,0	0680.1	5 m	
8	18	5,0	0680.2	25 m	
10	20	5,0	0681.1	5 m	
12	22	5,0	T985.1	5 m	
15	31	8,0	T986.1	5 m	

Set

Standard tubes (length 10 m each):

internal Ø 6 mm, external Ø 10 mm and internal Ø 8 mm,
external Ø 12 mm

Vacuum tubes (length 5 m each):

internal Ø 6 mm, external Ø 16 mm and internal Ø 8 mm,
external Ø 18 mm

Type	Art. No.	Pack Qty.	
Set	H279.1	1 set	

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