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Fluid aspiration systems

ECONOMIC, SAFE, COMFORTABLE

BVC BASIC, BVC CONTROL, BVC PROFESSIONAL



Technology for Vacuum Systems

FLUID ASPIRATION SYSTEMS

BVC - the compact BioChem-VacuuCenter offers the perfect solution for safe, sensitive and efficient aspiration of supernatants or filtration in all application areas.

The BVC basic is intended for connection to an external vacuum source. The BVC control and the BVC professional are equipped with a high performance, chemically resistant diaphragm pump. The vacuum level and thus the suction force at the hand control can be sensitively adjusted via a touch panel. In addition, the BVC professional features a non-contact liquid level sensor and self-closing quick couplings (4l PP bottle version). All systems are available either with a vacuum-resistant, autoclavable 4l PP bottle or with a 2l borosilicate glass bottle, e.g., for working with aggressive disinfectants such as chlorine bleach. All versions are ready for connection of a second hand control.



BVC basic

- mechanical vacuum regulator to provide optimum working vacuum and minimize the vapor load on the vacuum network
- designed for connection to an existing external vacuum source, electricity-free operation
- autoclavable collection bottle designed to reduce aerosol and foam formation; autoclavable quick-couplings available as accessory
- aspiration hand set VacuuHandControl (VHC) with flow-through suction tube - no contamination of handle by aspirated media
- hydrophobic 0.2 micron sterilizable filter - contamination risks for the vacuum pumping system are greatly reduced



BVC control

- powerful and long-lasting chemistry diaphragm pump for universal economical use
- easy operation due to electronically adjustable suction power via touch panel, for strong or sensitive suction
- autoclavable collection bottle designed to reduce aerosol and foam formation; autoclavable quick-couplings available as accessory
- ready to accept a second aspiration hand controller (VHC) to support two users



BVC professional

- with all the advantages of the BVC control
- non-contact sensor for electronic monitoring of the liquid level in the collection bottle
- disinfection routine for the suction tubing for drawing in disinfectant after switching off the pump
- self-closing quick couplings (as optional accessory to the BVC professional G) for convenient and safe bottle change, e.g., for work with biohazards

ECONOMIC EFFICIENCY

- powerful chemical-resistant diaphragm vacuum pump with a very long service life even when working with aggressive disinfectants - minimal costs for maintenance and spare parts
- ready to accept a second hand controller - double use for lower cost per user
- high-quality components for trouble-free operation in continuous professional use

FLEXIBILITY AND COMFORT

- 4l PP or 2l glass bottle - for a perfect fit with process protocols (2l borosilicate glass bottle, e.g., for working with aggressive disinfectants such as chlorine bleach)
- compact size with control handle - for flexible, space-saving setup with perfect ergonomics
- very low noise levels in operation - to work comfortably in daily routine
- sensitive suction power adjustment via touch panel - for sample protection and reproducible results
- vacuum pump that responds automatically to demand - no foot pedal switch needed

SAFETY

- 0.2 micron sterile filter - high protection against contamination of the environment
- hand controller with flow-through suction tube - no contamination of handle with aspirated media
- collection flask made of PP or coated borosilicate glass - completely autoclavable, with 0.2 micron sterile filter
- 2l borosilicate glass flask for high chemical resistance, with splinter-proof coating for safety and leakage protection
- BVC professional includes liquid-level sensor to prevent aspiration of liquids into pump. Self-closing couplings (4l PP bottle version) for safe removal of bottle for change and transport



Version with glass bottle - for aggressive media, smaller quantities and quick autoclave



Non-contact liquid level sensor - wearfree, simple bottle exchange



Filter 0.2 micron - high protection against contamination, autoclavable



Quick-couplings PVDF - autoclavable, high chemical resistance



Precise handling of long, graduated pipettes

FLUID ASPIRATION SYSTEM

BIOCHEM-VACUUCENTER

TECHNICAL DATA / ORDERING INFORMATION		BVC basic	BVC basic G
Dimensions (L x W x H), approx.	mm	250 x 200 x 490	230 x 180 x 430
Collection flask		4l PP	2l glass
Weight, approx.	kg	2.8	2.8
Ordering number		727000	727100

TECHNICAL DATA / ORDERING INFORMATION		BVC control	BVC control G
Diaphragm pump		ME 1C	ME 1C
Dimensions (L x W x H), approx.	mm	408 x 194 x 500	408 x 194 x 426
Collection flask		4l PP	2l glass
Weight, approx.	kg	7.3	7.7
230 V ~ 50-60 Hz	CEE	727200	727300

TECHNICAL DATA / ORDERING INFORMATION		BVC professional	BVC professional G
Diaphragm pump		ME 1C	ME 1C
Dimensions (L x W x H), approx.	mm	408 x 194 x 500	408 x 194 x 430
Collection flask		4l PP	2l glass
Weight, approx.	kg	7.3	7.7
230 V ~ 50-60 Hz	CEE	727400	727500

Country specific power cable, please order separately if needed: UK (676020), CH (676021), CN (635997)

ACCESSORIES		ORDERING INFORMATION	
4l collection bottle made of polypropylene (PP)	4l heavy-walled, vacuum-proof collection bottle with high chemical resistance (PP), special bottle head for minimized foam and aerosol formation, with hose nozzle for VacuuHandControl VHC and additional port to connect a second VHC (optional).	635810	
2l collection bottle made of borosilicate glass	2l borosilicate glass collection bottle with high chemical resistance, with splinter-proof coating, special bottle head for minimized foam and aerosol formation, hose nozzle for VacuuHandControl VHC and additional port to connect a second VHC (optional).	635809	
Adapter for 2l glass bottle	Holder for 2 liter glass bottle for BVC control or BVC professional (included in BVC control G and BVC professional G)	635839	
VacuuHandControl VHC	Ergonomic aspiration hand set with adjustable tip holder, three adapters to accept a variety of common pipettes and tips, push button with lock for permanent aspiration, thumb-wheel control for microliter aspiration, with 2 m tubing.	688056	
Extension kit second VHC connection	Hose nozzle and inlet tube for minimized foam and aerosol formation (VHC not included).	699943	
Spare tubing for VHC	Silicone tubing (minimum order quantity 2m).	636156	
Sterilizable filter 0.2 micron	Hydrophobic 0.2 micron sterilizable filter, to protect pump system and work environment; autoclavable up to 20 times.	638266	
Quick coupling set for connection of VHC to bottle	Quick coupling made of PVDF, with adapter to connect a VHC to a collection bottle, very good chemical resistance, complete with inlet tube for minimized foam and aerosol formation.	635807	
Quick coupling set for connection of bottle to pump	Quick coupling made of PVDF, to connect a collection bottle to a pump unit BVC or to a BVC basic.	635808	

BVC PROFESSIONAL

- self-closing quick couplings

BVC PROFESSIONAL G

- non-contact liquid level sensor
- disinfection routine

BVC CONTROL

- chemistry diaphragm pump
- automatically on/off switching of the pump

BVC CONTROL G

- adjustable suction power
- touch panel

BVC BASIC

- hand set VacuuHandControl VHC

BVC BASIC G

- pressure switch
- collection bottle
- micron protection filter 0.2 µm
- rack, without vacuum pump

Standard version with 4l PP-collection flask; G-versions with 2l borosilicate glass bottle