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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<sup>pro</sup>) 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<sup>pro</sup>) 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



## SAFETY

- 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
- Security containment: collection flask made of PP or coated borosilicate glass - completely autoclavable, with 0.2 micron protection filter
- 2l borosilicate glass flask for high chemical resistance, with splinter-proof coating for safety and leakage protection
- ergonomic and functionally designed hand set VHC<sup>pro</sup>, with flow through suction tube, second mode for permanent suction and fully autoclavable
- 0.2 µm hydrophobic protection filter - extra safety against contamination of the environment, additional overflow protection and 20x autoclavable

## 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, BVC shuttle to the relief of the laboratory cleaning
- 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, automatically on/off switching of the vacuum pump



Fully autoclavable, ergonomic hand set



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



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



Safety-containment



Quick-couplings PVDF - autoclavable, high chemical resistance



Complimentary range of accessories including table stand, tip ejector and BVC shuttle

# 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	3.2
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 430
Collection flask		4l PP	2l glass
Weight, approx.	kg	7.3	7.7
Ordering number	CEE / UK / US	727200 / 727202 / 727203	727300 / 727302 / 727303
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
Ordering number	CEE / UK / US	727400 / 727402 / 727403	727500 / 727502 / 727503

Other country-specific versions are available on our website [www.vacuubrand.com/bvc](http://www.vacuubrand.com/bvc)

### ACCESSORIES

#### VacuuHandControl VHC<sup>PRO</sup> 688061



Ergonomic aspiration hand set with tip holder and adapter to accept a variety of common pipettes and tips, level for manual suction control, rotary knob for permanent aspiration, with 2.5 m tubing

#### Stand for VHC<sup>PRO</sup> suction handset 635680 Spare tubing for VHC / VHC<sup>PRO</sup> 636156



The stainless steel stand for the VHC<sup>PRO</sup> enables to place the tipped suction handset conveniently and stable during work with cell cultures



Silicone tubing (minimum order quantity 2m)

#### Adapter for pipette tips with tip ejector 635638 Adapter for eight pipette tips 635679



This adapter is designed for pipette tips 2 - 200 µl and has got a tip ejector to remove the used pipette tip



This adapter allows parallel operation of eight pipette tips (size 2 - 200 µl or 5-300 µl). It matches the dimensions of standardized 96-well microplates and has got a tip ejector.

#### Protection filter 0.2 micron 638266 Extension kit second VHC / VHC<sup>PRO</sup> connection 699943



Hydrophobic 0.2 micron protection filter, to protect pump system and work environment; autoclavable up to 20 times



Hose nozzle and inlet tube for minimized foam and aerosol formation (VHC / VHC<sup>PRO</sup> not included)

#### Quick coupling VHC / VHC<sup>PRO</sup> - bottle 635807 Quick coupling set connection bottle - pump 635808



Quick coupling made of PVDF, with adapter to connect a VHC / VHC<sup>PRO</sup> to a collection bottle, very good chemical resistance, complete with inlet tube for minimized foam and aerosol formation, autoclavable



Quick coupling made of PVDF, to connect a collection bottle to a pump unit BVC or to a BVC basic, very good chemical resistance, autoclavable. When disconnected, the collection bottle closes vacuum tight

#### BVC 4l bottle PP 635810 BVC 2l bottle glass 635809



4l heavy-walled, vacuum-proof collection bottle with high chemical resistance (PP), special bottle head for minimized foam and aerosol formation, with hose nozzle and filter



2l borosilicate glass collection bottle with high chemical resistance, with splinter-proof coating, special bottle head for minimized foam and aerosol formation

#### Adapter for 2l glass bottle 635839 BVC shuttle 696880



Holder for 2 liter glass bottle for BVC control or BVC professional (included in BVC control G and BVC professional G)



The BVC shuttle is a mobile underframe for all models BVC control and BVC professional. It serves to pull out the BVC easily from under the safety cabinet for cleaning and removal of bottle for its exchange

**BVC PROFESSIONAL**

- self-closing quick couplings PVDF

**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<sup>pro</sup>

**BVC BASIC G**

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

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