

## FLUID ASPIRATION SYSTEMS

- The compact BioChem-VacuuCenter offers the perfect solution for safe, sensitive and efficient aspiration of supernatants 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.



## FLEXIBILITY AND COMFORT

- 4l PP or 2l glass bottle - for a perfect fit with process protocols (glass version, e.g., for 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

## 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

## 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

## FLUID ASPIRATION SYSTEM

### BIOCHEM-VACUUCENTER BVC BASIC

■ The BioChem-VacuuCenter BVC basic is designed for connection to an existing external vacuum source like a diaphragm pump or a vacuum network (e.g., VACUU·LAN®) and does not require electric power. The chemical-resistant mechanical vacuum controller always ensures an optimal operating vacuum. The controller opens only when needed thus limiting the gas load on the vacuum source. The evaporation of collected liquid is minimized. The inlet tubing integrated in the bottle head reduces aerosol and foam formation and ensures a long service life of the hydrophobic sterile filter. The aspiration system is available either as BVC basic with 4l PP bottle or as BVC basic G with 2l coated borosilicate glass bottle.

#### PERFORMANCE FEATURES

- mechanical vacuum regulator to provide optimum working vacuum and minimize the vapor load on the vacuum network
- stable base and electricity-free operation for convenience
- 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; autoclavable as complete unit together with the collection bottle



BVC basic

#### BVC basic

With 4l PP collection bottle for general aspiration tasks, completely autoclavable together with a 0.2 micron sterile filter

#### BVC basic G

With 2l borosilicate glass collection flask with splinter-proof coating and leakage protection, with high chemical resistance for aggressive disinfectants like chlorine bleach; completely autoclavable together with 0.2 micron sterile filter.

#### TECHNICAL DATA

Vacuum pump	-
Dimensions (L x W x H), approx.	mm 250 x 200 x 405
Weight, approx.	kg 2.8

#### ORDERING INFORMATION

##### BVC basic

727000

##### BVC basic G

727100

#### ITEMS SUPPLIED

Complete fluid aspiration system for existing vacuum source, with automatic vacuum control, hose nozzle DN 6/10 mm for connection to a vacuum supply, aspiration hand set VacuuHandControl VHC, collection bottle and manual.

# FLUID ASPIRATION SYSTEM

## BIOCHEM-VACUUCENTER BVC CONTROL

■ The BioChem-VacuCenter BVC control serves for efficient and convenient aspiration of supernatants. The vacuum level - and thus the suction force - is exactly adjustable by the electronic touch panel and allows a sensitive and reproducible operation. The chemically resistant diaphragm vacuum pump is automatically turned on and off as needed, which reduces the low noise level even further. The BVC control is available in two complete equipment options with different collection flasks. The 2l borosilicate glass bottle with a protective coating has a very high chemical resistance. For larger amounts of liquids the 4l bottle of unbreakable polypropylene (PP) is used. The smooth surfaces allow an easy cleaning of the systems.

### PERFORMANCE FEATURES

- powerful and long-lasting chemistry diaphragm pump for universal economical use
- extremely compact, space saving and low noise and thus the ideal tool in the workplace
- 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 control

### BVC control

With 4l PP collection bottle for general aspiration tasks, completely autoclavable together with a 0.2 micron sterile filter

### BVC control G

With 2l borosilicate glass collection flask with splinter-proof coating and leakage protection, with high chemical resistance for aggressive disinfectants like chlorine bleach; completely autoclavable together with 0.2 micron sterile filter

### TECHNICAL DATA

Vacuum pump		ME 1C
Ultimate vacuum (abs.)	mbar	150
Dimensions (L x W x H), approx.	mm	410 x 194 x 426
Weight, approx.	kg	7.3

ORDERING INFORMATION		BVC control	BVC control G
230 V ~ 50-60 Hz	CEE	727200	727300
100-120 V ~ 50-60 Hz	US	727203	727303

### ITEMS SUPPLIED

Fluid aspiration system complete with powerful chemistry diaphragm pump, collection bottle, adjustable suction power control via touch panel and aspiration hand set VHC, ready for use with manual.

## FLUID ASPIRATION SYSTEM

### BIOCHEM-VACUUCENTER BVC PROFESSIONAL

■ The BioChem-VacuuCenter BVC professional serves for aspiration and disposal of biological fluids, providing outstanding levels of comfort and safety for working with biological and biohazardous materials. A non-contact sensor monitors the liquid level in the collection bottle electronically and prevents overfilling. A disinfection routine allows the suction of disinfectants through aspiration hand set and tubing after switching off the pump, and so supports demanding safety protocols. The BVC professional with 4l PP bottle with self-closing quick couplings minimizes risk in transporting hazardous waste and of contamination in the workplace. The version with coated 2l borosilicate glass bottle allows you to work with aggressive disinfectants like chlorine bleach.

#### PERFORMANCE FEATURES

- 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 accessory to the BVC professional G) for convenient and safe bottle change, e.g., for work with biohazards
- for professional work and a perfect fit for required safety protocols



BVC professional

#### BVC professional

4l PP collection flask, with self-closing quick couplings made of PVDF, completely autoclavable together with sterilizable filter 0.2 micron

#### BVC professional G

With 2l borosilicate glass collection flask with splinter-proof coating and leakage protection, with high chemical resistance for aggressive disinfectants like chlorine bleach; completely autoclavable together with 0.2 micron sterile filter.

#### TECHNICAL DATA

Vacuum pump		ME 1C
Ultimate vacuum (abs.)	mbar	150
Dimensions (L x W x H), approx.	mm	410 x 194 x 448
Weight, approx.	kg	7.3

#### ORDERING INFORMATION

		BVC professional	BVC professional G
230 V ~ 50-60 Hz	CEE	727400	727500
100-120 V ~ 50-60 Hz	US	727403	727503

#### ITEMS SUPPLIED









Fluid aspiration system complete with powerful chemistry diaphragm pump, collection bottle, adjustable suction power control via touch panel, non-contact liquid level sensor, quick couplings (4l PP version) and aspiration hand set VHC, ready for use with manual.

# FLUID ASPIRATION SYSTEM

## BIOCHEM-VACUUCENTER

ORDERING INFORMATION		BVC basic	BVC basic G
		727000	727100
ORDERING INFORMATION		BVC control	BVC control G
230 V ~ 50-60 Hz	CEE	727200	727300
100-120 V ~ 50-60 Hz	US	727203	727303
ORDERING INFORMATION		BVC professional	BVC professional G
230 V ~ 50-60 Hz	CEE	727400	727500
100-120 V ~ 50-60 Hz	US	727403	727503

Country specific power cable, please order separately if needed: Power cable UK (676020), Power cable CH (676021), Power cable 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), hydrophobic filter element 0.2 µm to protect pump and environment, hose for connection to BVC pump unit or BVC basic; fully autoclavable.	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), hydrophobic filter element 0.2 µm to protect pump and environment, hose for connection to pump unit BVC or BVC basic; fully autoclavable.	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, autoclavable. This set is also suitable to connect a second VHC. When disconnected, the collection bottle closes vacuum tight.	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, very good chemical resistance, autoclavable. When disconnected, the collection bottle closes vacuum tight.	635808	