

WaterVac 100
Vacuum Filtration System

Important notice

- Please study this instruction manual carefully before using this product.
- Please discard packing material according to local related regulations.
- Please make sure the supply voltage and frequency conform to power specified on main unit.
- Please operate the instrument in well ventilated areas and keep away from inflammables.
- This product is not corrosion-proof. Please do not pump acid, base or organic vapors or gases directly.
- Do not pump dirty or impure solution before filtration to avoid clogging this product.
- In case of any questions in using this product, please make sure to contact your local distributor for help. Do not do any improper assembly or disassembly without authorization.
- Please clean and maintain the instrument and accessories according to the maintenance method after every use.
- For more product details, please refer our latest catalog and company website.

Unpacking

Carefully check if the shipping carton is in good condition before unpacking. Please check all supplied items according to standard package list. If you have any questions, please keep serial no. & shipping carton and contact your local dealer for help.



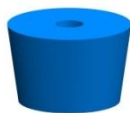
Silicone stopper adaptor



SS spin-lock support base
(incl. support screen)



Magnetic support base



#8 silicone stopper



WaterVac 100 Main Unit



Kit



Transformer



200 cm silicone tube

Model No.	Assembly
WaterVac 100-MS	Silicone stopper adaptor + WaterVac 100 main unit + #8 silicone stopper + transformer + 200cm silicone tube + kit + instruction manual
WaterVac 100-MB	SS spin-lock support base + WaterVac 100 main unit + transformer + 200cm silicone tube + kit + instruction manual
WaterVac 101-MB	100ml SS funnel +SS spin-lock support base + WaterVac 100 main unit + transformer + 200cm silicone tube + kit + instruction manual
WaterVac 100-MF	Magnetic support base + WaterVac 100 main unit + transformer + 200cm silicone tube + kit + instruction manual

Installation Example and Operation

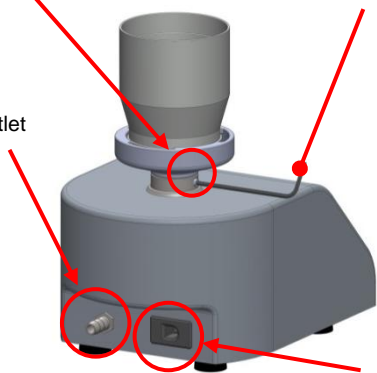
Installation with Filter Holder		
WaterVac 100-MS	WaterVac 100-MB / WaterVac 101-MB	WaterVac 100-MF
<p>Funnel</p> <p>Membrane</p> <p>Support Base</p> <p>#8 silicone stopper</p>	<p>Funnel</p> <p>Membrane</p> <p>Support Screen</p>	<p>Funnel</p> <p>Membrane</p> <p>Membrane</p>

WaterVac 100 Operation

Fixing Screw

L-Type Hex Key 2mm

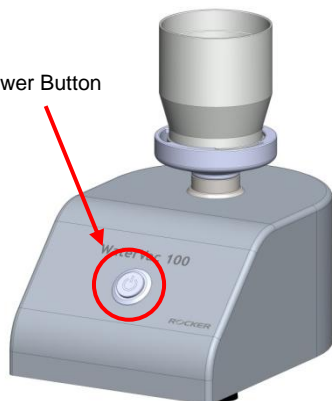
Outlet



Power Socket

1. Make sure that funnel adaptor is screwed into main unit properly; tighten fixing screw with L-Type hex key (2mm) to prevent support base from rotation.
2. Make sure that transformer is plugged into power socket tightly; both ends of silicone tube are connected to outlet and drain tank respectively.

Power Button



1. Make sure that membrane is placed on support base properly then press power button to begin filtration process.
2. Press power button to stop operation once filtration is finished.
3. ***Please suck in pure water to clean the tubing after every use. Keep running pump for one more minute after water is cleaned out to ensure the remaining water is completely drained.***

***Caution:

- Do not bend silicone tube too much or squeeze it with heavy objects to avoid poor drainage.
- Do not pump dirty or impure solution before filtration to avoid clogging or damaging pump.

Funnel Adaptor



190100-10

Silicon Stopper funnel adaptor:

Compatible with various kinds of filter holders with #8 silicone stopper.



190100-20

Rocker Stainless Steel Funnel Adaptor:

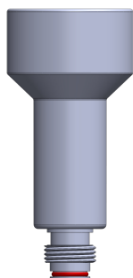
Fitting to Rocker SS funnel available for instant flame Sterilization.



190100-30

Rocker Magnetic Support Base:

Fitting to Rocker 300/500 ml Magnetic funnel;
Fast, easy operation and autoclavable.



190100-71



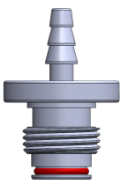
Silicon Stopper funnel adaptor (long type):

Compatible with various kinds of filter holders with #8 silicone stopper.



190100-73

Adaptor for Millipore 100/250ml plastic funnel

Funnel Adaptor	
 <p>190100-74</p>	Adaptor for Sartorius 16A07 plastic funnel
 <p>190100-75</p>	Adaptor for Pall 4870 (100ml), 4871 (250ml) filter funnel
 <p>190100-76</p>	Hose barb adaptor (for Ø4-8mm tubing)

Maintenance

1. This product is not autoclavable. Please clean the case by pure water or 75% alcohol.
2. It is strongly recommended to replace O-ring of funnel adaptor once every year at least to keep good aspiration.
3. Silicone tubes are consumables; please replace at least every half year to ensure good drainage.

Troubleshooting

Symptoms	Remedy
Instrument fails to start	<p>Check if the power supply conforms to power specified on main unit.</p> <p>Check if the power button is pressed properly.</p> <p>Switch is broken → back to local dealer.</p>
Poor vacuum	<p>Check if outlet is blocked.</p> <p>Funnel adaptor O-ring is broken → replace the O-ring</p> <p>Inner tube leakage → back to local dealer.</p> <p>Internal wiring loose →back to local dealer.</p>
Low filtration speed	<p>Check if the connection between funnel and funnel adaptor is tightly sealed.</p> <p>Check if membrane specification is proper.</p> <p>Check if membrane is blocked → replace membrane</p> <p>Funnel adaptor O-ring is broken → replace the O-ring</p> <p>Silicone tube is bent too much → replace silicone tube</p> <p>Internal wiring loose → back to local dealer.</p>

Ordering Information

190100-01	WaterVac 100, Vacuum Filtration System with AC100-240V adaptor, US plug
190100-02	WaterVac 100, Vacuum Filtration System with AC100-240V adaptor, EU plug
190110-01	WaterVac 100-MS, Vacuum Filtration System with No. 8 stopper funnel adaptor, AC100-240V adaptor, US plug
190110-02	WaterVac 100-MS, Vacuum Filtration System with No. 8 stopper funnel adaptor, AC100-240V adaptor, EU plug
190120-01	WaterVac 100-MB, Vacuum Filtration System with Rocker S.S. funnel adaptor, AC100-240V adaptor, US plug
190120-02	WaterVac 100-MB, Vacuum Filtration System with Rocker S.S. funnel adaptor, AC100-240V adaptor, EU plug
190121-01	WaterVac 101-MB, Vacuum Filtration System with Rocker 100ml S.S. funnel and S.S. funnel adaptor, AC100-240V adaptor, US plug
190121-02	WaterVac 101-MB, Vacuum Filtration System with Rocker 100ml S.S. funnel and S.S. funnel adaptor, AC100-240V adaptor, EU plug
190100-10	Silicon Stopper funnel adaptor
190100-20	Adaptor for Rocker S.S. Funnel
190100-30	Rocker Magnetic Funnel base
190100-10	Adaptor for No. 8 Stopper (for WaterVac 100)"
190100-73	Adaptor for Millipore 100/250ml plastic funnel
190100-74	Adaptor for Sartorius 16A07 plastic funnel
190100-75	Adaptor for Pall 4870 (100ml), 4871(250ml) filter funnel
190100-76	Hose barb adaptor (for Ø4-8mm tubing)
167100-31	Stainless Steel Support Screen (Frit)
167103-61	Stainless Steel Funnel 100ml
167103-63	Stainless Steel Funnel 300ml
167103-65	Stainless Steel Funnel 500ml
200300-30	300ml Magnetic funnel for MF3, MF3a
200500-30	500ml Magnetic funnel for MF5, MF5a
200300-36	PP lid kit for MF3, MF3a, MF5, MF5a Magnetic Filter Holder
OR-AS12-SI	O-ring for funnel adaptor
167100-20	PALL 61631, Type A/ E Glass Fiber Discs, 1 um, 100/PK
167100-52	PALL 66278, GN-6 Metrcel Membrane Disc Filter, grid (200/PK)