

Oil-Free Diaphragm Pump

B100 & B105



B100	Max Flow	B105
33 l/min		56 l/min
Max Vacuum		
80 mbar		50 mbar
Max Pressure		
2.5 bar		1 bar

Contamination free pumping

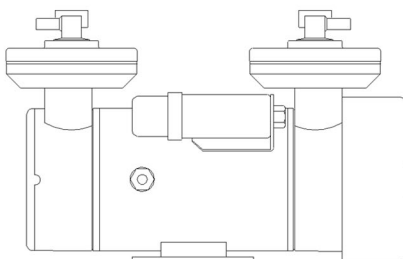
Two versions the B100 and B105 are available. B100 pumps are specified for applications where a pressurised flow is required including flame photometry and oxygen concentration. For high flow use in the medical and sampling industry the B105 offers up to 56 l/min. Both diaphragm pumps provide a clean, oil free vacuum and pressure source and are ideal for continuous duty.

Proven design and reliability

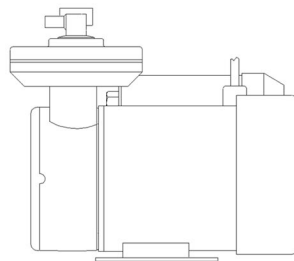
Rugged construction and proven reliability ensure long service life even in hostile industrial environments. The low speed motor offers quiet operation and minimal current consumption. Pump performance can be customised to suit individual clients requirements and for versatile installations the pump head and connectors can be orientated in any direction for optimum space saving.

Corrosion resistant options

By selecting the Viton diaphragm option the B series will provide resistance to a range of corrosive gases and vapours. For highly corrosive applications see our B85 and Innovac data sheets.

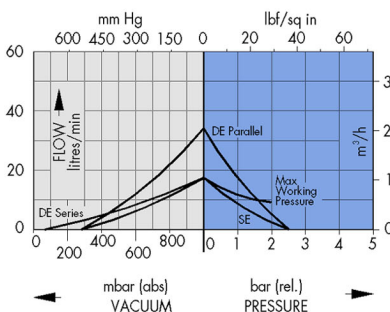


B100 & B105 DE double ended pump
The two heads can be connected in:-
Parallel, as supplied for maximum flow
Series for maximum vacuum performance
or as two separate heads

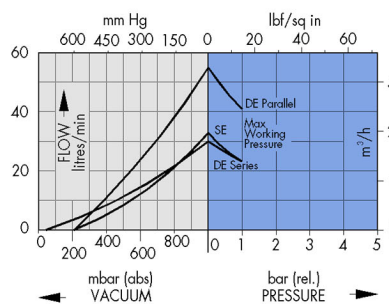


B100 & B105 SE single ended pump

B100 Series



B105 Series



Optional benchtop versions

Versions of the B series pumps are available supplied complete with carry handle for portable use or housed in a splash proof metal case. Both are ideal for laboratory benchtop applications. In addition these options can be supplied with a range of vacuum/pressure gauges and needle valves.

Application ideas

Application ideas include medical suction, environmental monitoring, prosthetics manufacture, flame photometry and oxygen concentration.



Technical Specifications

B100 & B105

Motor Type:

IP44 Permanent capacitor, totally enclosed fan cooled. 1400 RPM @ 50Hz.
Thermal Protection 140°C
Maximum permissible ambient temperature 40°C

model no.	110/115V 50/60Hz			230V 50Hz		
	operating current	max. load	fuse rating	operating current	max. load	fuse rating
B100 SE, B105 SE	0.75A	1.0A	2.0A	0.3A	0.4A	1.0A
B100 DE, B105 DE	1.5A	2.0A	3.0A	0.5A	0.7A	2.0A

Performance:

model no.	max. free flow l/min	max. vacuum mbar (abs)	max. pressure bar
B100 SE	18.0	280	2.5
B100 DE series connected	18.0	80	2.0*
B100 DE parallel connected	35.0	280	2.5
B105 SE	32.0	180	1.0*
B105 DE series connected	31.0	50	n/a
B105 DE parallel connected	56.0	180	1.0*

* recommended maximum working pressure

Pump Materials:

With the option of EPDM and Viton for the diaphragm these pumps will handle a range of corrosive gases.

component	material
Head	aluminium
Diaphragm	EPDM or viton
Connectors	nylon or aluminium
'O' Rings	nitrile or viton
Valves	viton

Connectors:

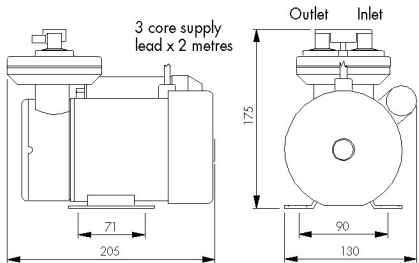
Plain, horizontal, nylon 8.0mm OD
Optional: horizontal - nylon 8.0mm OD barbed, vertical - nylon 8.0mm OD plain, aluminium 8.0mm OD plain.

Optional filters and silencers:

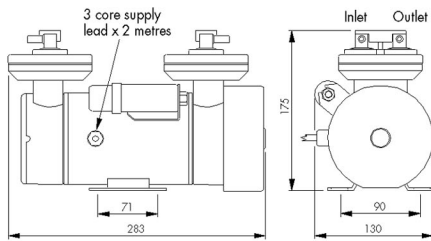
Filter: 100 micron, cleanable with renewable element
Silencer: Minimises noise and smoothes flow pulsation

B100 & B105 SE 4.0kg

dimensions: mm



B100 & B105 DE 6.3kg



distributed by:

Please note that it is important that you ensure the motor specification stated and the range of materials offered in the pump are compatible with the performance, environmental limitations and chemical resistance of the application.

For further information or details of our extensive range of diaphragm pumps, contact our technical sales office who will be pleased to help you select the most suitable pump for your application.

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