

Vacuum Pump V-700



The V-700 Vacuum Pump is a chemically resistant PTFE diaphragm pump designed for use with all gases and vapors typically associated in the lab. With a flow rate of 1.8 m³/h and an ultimate vacuum of below 10 mbar, it covers a wide range of classical laboratory applications and is optimally suited for work with a rotary evaporator. Other typical applications include the evacuation of drying ovens or vacuum centrifuges and the generation of vacuum for filtration purposes or for conveying liquids.

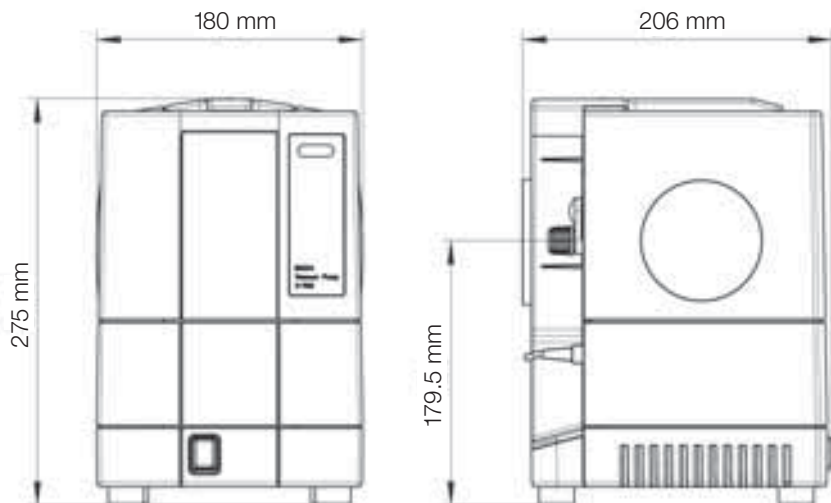
The vacuum pump offers the following advantages:

- Unique window head allows for visual inspection of diaphragm making it easy to check for solvent build-up or detection of contamination
- Innovative, single-stroke speed control for hysteresis-free and precise vacuum (in combination with the Vacuum Controller V-850/855)
- Sophisticated soundproofing with enclosed housing and counterbalancing minimize noise and vibration
- Integrated gas ballast for drying the diaphragms during operation, ensuring consistently high flow rates
- Virtually maintenance-free, easy to access diaphragms
- Compact design and solid workmanship, with integrated carrying handle
- Strictly axial movement of the diaphragm increases service life



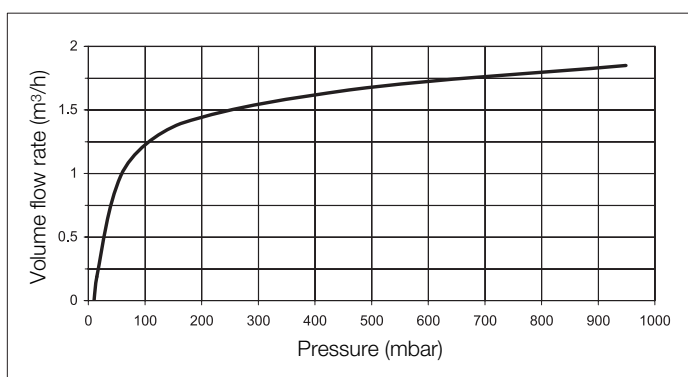
Pump head design with window (blue) and diaphragm (green)

Minimum emission thanks to sophisticated secondary condenser, completely enclosed housing and Vacuum Controller

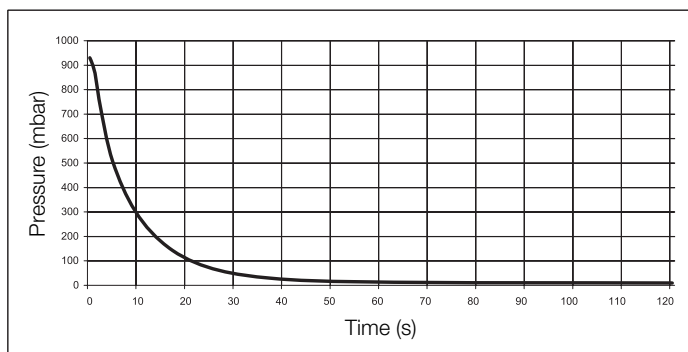


Volume flow rate (DIN 28432)	1.8 m³/h
Number of stages (heads)	2 (2)
Ultimate vacuum (absolute)	<10 mbar
Ultimate vacuum (with gas ballast)	24 mbar
Vacuum connection	GL 14
Power consumption	210 W
Supply voltage	100–240 V/50–60 Hz
Motor	brushless DC motor
Revolution speed	max. 1600 rpm min. –1
Sound level (DIN 45635)	40–52 dB (A) dependent on operation mode
Safety class	IP 34
Weight	5.3 kg
Materials in contact with medium	PEEK, PTFE, glass, FEP
Approvals	CE

Volume flow rate (m³/h) of a V-700 dependent on inlet pressure (mbar)



Evacuation time (s) of a Rotary Evaporator (Volume = 3.4 L) with a V-700



Ordering data:

V-700 Vacuum Pump	
85–264 V/50–60 Hz	
Order No.	71000
Scope of delivery:	
V-700 Vacuum Pump, sound absorber, main cable and operating instructions	

Accessories:

	Order No.
Secondary condenser cpl.	47180
Secondary condensation trap cpl.	47190
Vacuum Controller V-850 cpl. (incl. 47280)	47299
Vacuum Controller V-855 cpl. (incl. 47280)	47298
Manual vacuum regulation, cpl. (incl. 47280)	47291
Communication and fixation set	47280
Woulff' bottle cpl. incl. holder	47170
(Recommended in combination with V-850/855 or manual regulation)	
Cable RJ45 2000 mm	44989
Cable Mini-DIN 1500 mm	38010

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