

Neocientífica** S.A.**



27 de Abril 624
X5000AEN - Córdoba
Tel./ Fax (0351) 423-2198 / 421-1212
info@neocientífica**.com.ar**
www.neocientífica**.com.ar**

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.

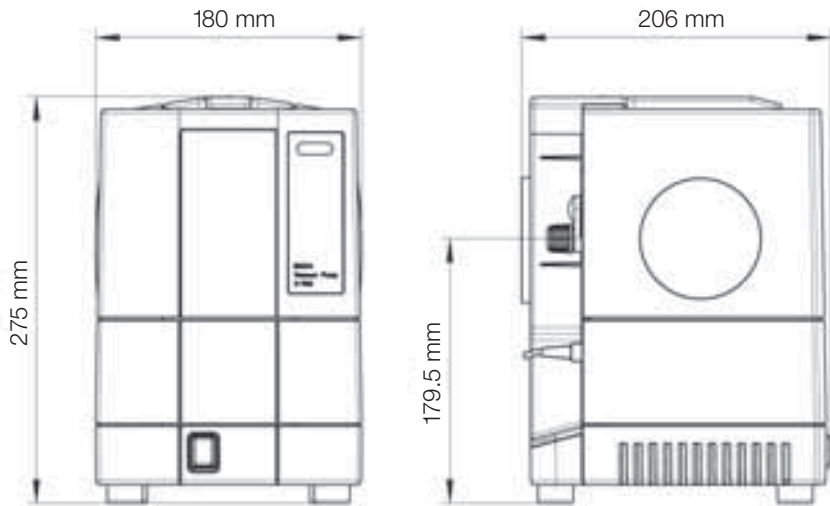
The vacuum pump offers the following advantages:

- 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



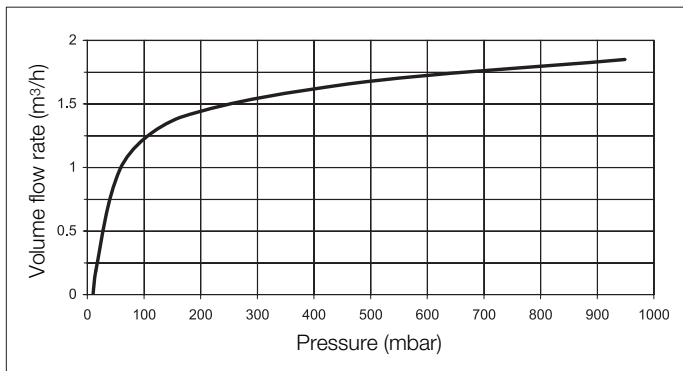
Pump head design with window (blue) and diaphragm (green)

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

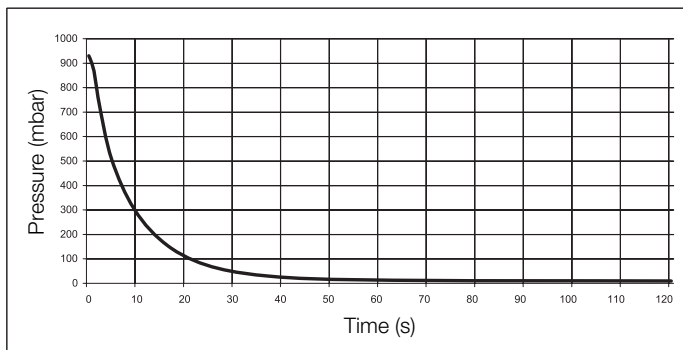


Volume flow rate (DIN 28432)	1.8 m ³ /h
Number of stages (heads)	2 (2)
Ultimate vacuum (absolute)	<10 mbar
Ultimate vacuum (with gas ballast)	24 mbar
Vacuum connection	GL 14
Power consumption	210 W
Supply voltage	100–240 V/50–60 Hz
Motor	brushless DC motor
Revolution speed	max. 1600 rpm min. –1
Sound 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:

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

BÜCHI Labortechnik AG
Postfach
9230 Flawil 1
Schweiz
Tel. +41 71 394 63 63
Fax +41 71 394 65 65
buchi@buchi.com
www.buchi.com

BÜCHI Labortechnik GmbH
Postfach 10 03 51
45003 Essen
Deutschland
Freecall 0800 414 0414
Tel. +49 201 747 490
Fax +49 201 237 082
deutschland@buchi.com
www.buechigmbh.de

BÜCHI Labortechnik GmbH
Branch Office Netherlands
Postbus 142
3340 AC Hendrik-Ido-Ambacht
The Netherlands
Tel. +31 78 684 94 29
Fax +31 78 684 94 30
netherlands@buchi.com
www.buchi.nl

BÜCHI Italia s.r.l.
Centro Direzionale, Milano Fiori
Pal. A-4, Strada 4
20090 Assago (MI)
Italia
Tel. +39 02 824 50 11
Fax +39 02 57 51 28 55
italia@buchi.com
www.buchi.it

BUCHI (THAILAND) Ltd.
ASEAN Competence Center
300 Phaholyothin Road
Samsennai, Phayathai
Bangkok 10400
Thailand
Tel. +66 2 278 54 95
Fax +66 2 279 05 48
bacc@buchi.com
www.buchi.com

BUCHI SMP
Services Private Ltd.
201, Magnum Opus
Shantinagar Industrial Area
Vakola, Santacruz (East)
Mumbai 400 055,
India
Tel. +91 22 56 98 94 50
Fax +91 22 56 98 94 52
smplisp@vsnl.com
www.buchi.com

BUCHI Analytical Inc.
19 Lukens Drive
New Castle
Delaware 19720
USA
Tel. +1 302 652 3000
Fax +1 302 652 8777
us-sales@buchi.com
www.buchi-analytical.com

BUCHI Hong Kong Ltd.
1305, Hang Seng Mongkok Bldg.
677 Nathan Road
Kowloon, Hong Kong
China
Tel. +852 2389 2772
Fax +852 2389 2774
china@buchi.com
www.buchi.com

Nihon BUCHI K.K.
3F IMON Bldg.,
2-7-17 Ikenohata, Taito-ku,
Tokyo 110-0008
Japan
Tel. +81 3 3821 4777
Fax +81 3 3821 4555
nihon@buchi.com
www.nihon-buchi.co.jp

BUCHI UK Ltd
5 Whitegate Business Centre
Jardine Way
(off) Broadway
Chadderton
Oldham OL9 9QL
United Kingdom
Tel. +44 161 633 1000
Fax +44 161 633 1007
uk@buchi.com
www.buchi.co.uk

BUCHI Sarl
5, rue du Pont des Halles
Z.A. du Delta
94656 Rungis Cedex
France
Tél. +33 1 56 70 62 50
Fax +33 1 46 86 00 31
france@buchi.com
www.buchi.fr

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