Chemistry vacuum system MD 1C +AK+EK



Link to the website

Product description

This chemistry vacuum system has a wide range of applications like evacuation, evaporation and pumping of gases and vapors. This system is usable for increased vacuum requirements with high boiling solvents and often replaces rotary vane pumps. Typical applications are rotary evaporators and vacuum drying ovens. The separator at the inlet (AK), made of glass with a protective coating, retains particles and liquid droplets. The waste vapor condenser at the outlet (EK) is highly efficient and compact. The condenser enables near-100-percent solvent recovery, efficient recycling and active protection of the environment.

Performance features

- outstanding chemical resistance and superior vapor tolerance
- exceptionally high performance even at low vacuum
- excellent ultimate vacuum even with gas ballast
- whisper quiet and ultra low vibration
- excellent environmental friendliness due to efficient solvent recovery

Ordering data

Product name	Nominal mains voltage mains frequency	Plug type	Articleno.
MD 1C +AK+EK	220-230 V 50-60 Hz 100-115 V 50-60 Hz	CEE	20696620
MD 1C +AK+EK	220-230 V 50-60 Hz 100-115 V 50-60 Hz	CH, CN	20696621
MD 1C +AK+EK	220-230 V 50-60 Hz 100-115 V 50-60 Hz	UK, IN	20696622
MD 1C +AK+EK	220-230 V 50-60 Hz 100-115 V 50-60 Hz	US	20696623

Items supplied

Pumping unit completely mounted, ready for use, with manual.

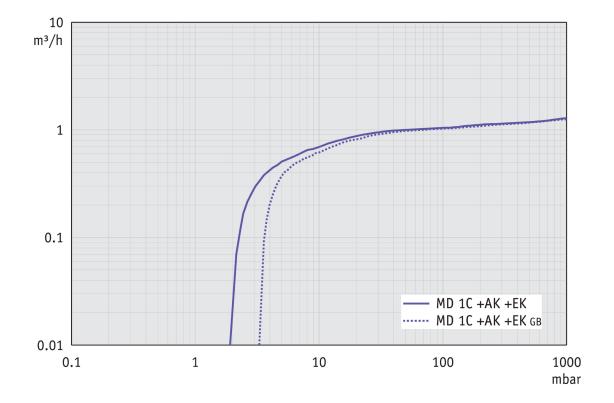
Accessories

- Silencer with hose 5cm DN 8-10mm (20636588)
- VACUU·LAN[®] module Einstellwinkel 90° (20637873)
- Rubber vacuum tubing DN 8 mm (20686001)

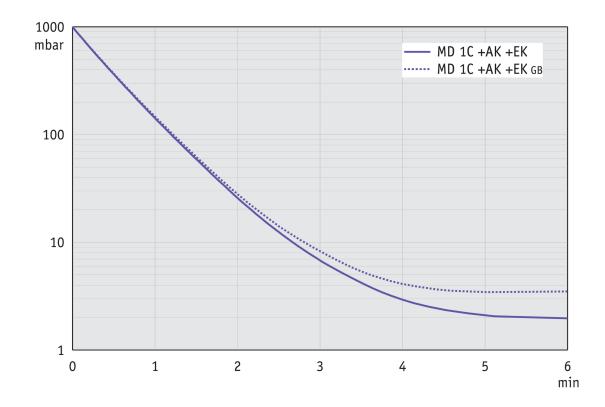
Technical data

Max. pumping speed 50 Hz (mbar)	1.3 m ³ /h	
Max. pumping speed 60 Hz (cfm)	0.88 cfm	
Ultimate vacuum	2 mbar / 1.5 torr	
Ultimate vacumm with gas ballast	4 mbar / 3 torr	
Number of heads	4	
Number of stages	3	
Permissible ambient temperature range (operation)	10 - 40 °C	
Permissible ambient temperature range (storage)	-10 - 60 °C	
Max. outlet pressure (abs.)	1.1 bar	
Inlet connection	Hose nozzle DN 8-10 mm	
Outlet connection	Hose nozzle DN 8-10 mm	
Coolant connection	2 x hose nozzle DN 6-8 mm	
Rated motor power	0.08 kW	
Rated speed 50/60 Hz	1500/1800 min ⁻¹	
Protection class IEC 60529	IP 40	
Dimensions (L x W x H)	316 mm x 239 mm x 405 mm	
Weight	11 kg	
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	45 dBA	
NRTL certification	Yes	

Pumping speed graph at 50 Hz

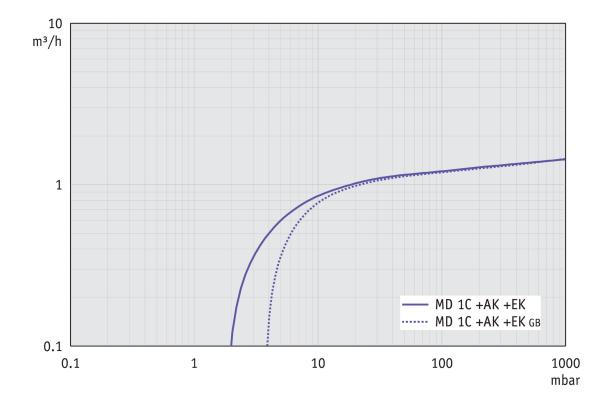


Pump down graph at 50 Hz (10 l volume)

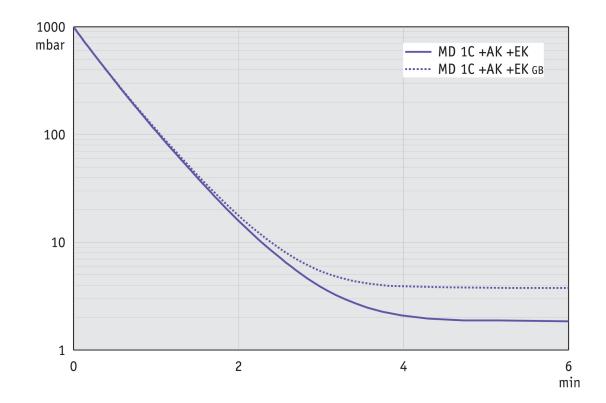


Technical data are subject to change without notice $\ensuremath{\textcircled{O}}$ VACUUBRAND GMBH + CO KG | 2024

Pumping speed graph at 60 Hz

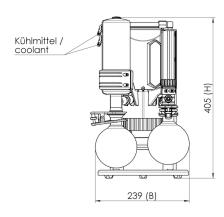


Pump down graph at 60 Hz (10 l volume)



Dimension sheet





Alle Maße / all dimensions [mm]

OUT - Schlauchwelle 10 / Casballast IN - Schlauchwelle 10 / hose nozzle 10 IN - Schlauchwelle 10 / hose nozzle 10

> VACUUBRAND MD 1C +AK+EK Version 05

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All with one goal:

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