# Chemistry vacuum system MD 4C EX +AK+EK



#### Link to the website

#### **Product description**

ATEX chemistry vacuum systems are ready for use for applications with large amounts of condensable vapors due to optimally configured accessories. Typical applications are rotary evaporators and drying ovens with potentially explosive atmospheres. The separator at the inlet (AK) 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. Included in delivery is a separate gas ballast connection part for use with inert gas.

#### **Performance features**

- outstanding chemical resistance and superior vapor tolerance
- flame proof motor with integrated, self-locking overload and excess temperature protection for direct 230V / 50Hz single phase power supply. No need for any additional and specific overcurrent protection device
- overpressure safety relief valves internally and at outlet
- safety diaphragm technology with option for inert gas purge and detection of diaphragm breakage
- separator AK and emission condenser EK for pump protection and solvent recovery

### **Ordering data**

Pro	oduct name	Nominal mains voltage   mains frequency	Plug type	Articleno.
MD 40	C EX +AK+EK	230 V   50 Hz	Open wires	20696931

### **Items supplied**

Pumping unit completely mounted with inlet separator and emission condenser, ready for use, with manual, 2 m cable without plug. Shatter and shock protection for glass parts are to be provided by the customer.

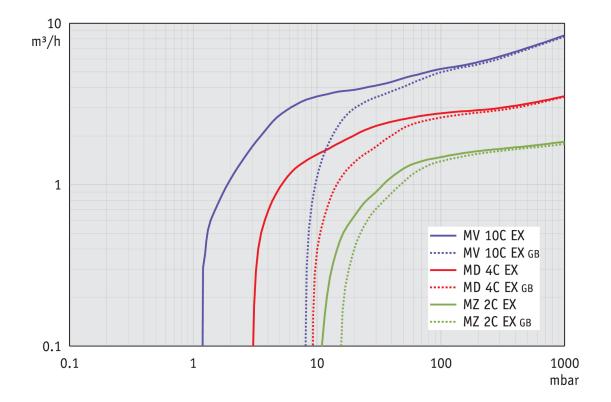
#### Accessories

PTFE-tubing (antistatic) with small flanges KF DN 25 (20686033)

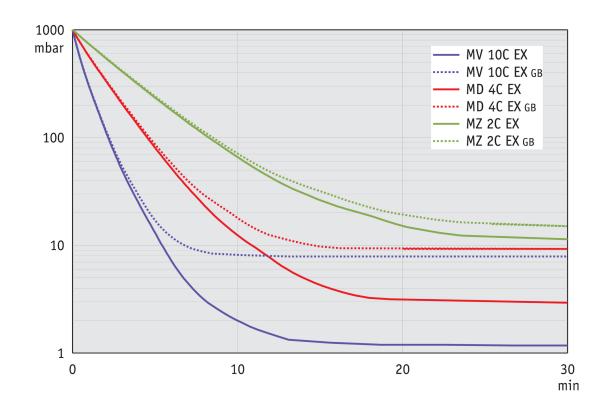
### **Technical data**

Max. pumping speed 50 Hz (mbar)	3.7 m <sup>3</sup> /h		
Ultimate vacuum	3 mbar / 2.3 torr		
Ultimate vacumm with gas ballast	10 mbar / 7.5 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	small flange KF DN 25		
Outlet connection	Hose nozzle DN 8-10 mm		
Coolant connection	2 x hose nozzle DN 6-8 mm		
Rated motor power	0.25 kW		
Rated speed 50/60 Hz	1500 min <sup>-1</sup>		
Protection class IEC 60529	IP 54		
Dimensions (L x W x H)	600 mm x 365 mm x 420 mm		
Weight	37.4 kg		
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	53 dBA		
ATEX conformity	Pumping chamber (pumped gases): II 2G Ex h IIC T3 Gb X Environment with inert purge gas: II 2G Ex h IIB T4 Gb X Environment without inert purge gas: II 3G Ex h IIB T4 Gc X Motor: II 2G Ex db IIB T4 Gb		
NRTL certification	No		

### Pumping speed graph at 50 Hz



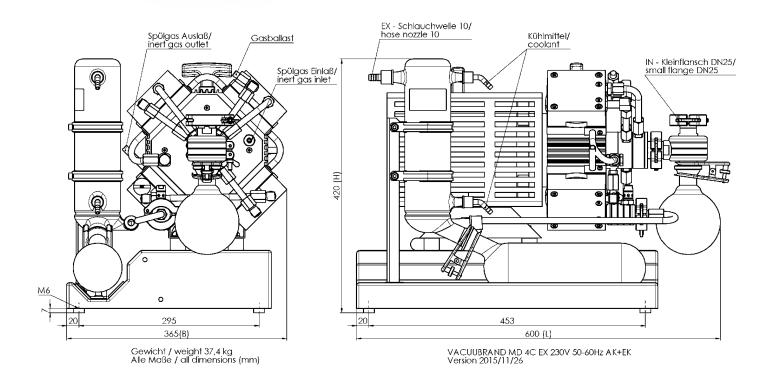
Pump down graph at 50 Hz (100 l volume)



Technical data are subject to change without notice © VACUUBRAND GMBH + CO KG | 2024

#### **Dimension sheet**





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