

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

Product name	Nominal mains voltage mains frequency	Plug type	Articleno.
MD 4C EX +AK+EK	230 V 50 Hz	Open wires	20696931

Items supplied

Pumping unit completely mounted with inlet separator and emission condenser, with manual, 10 m cable without plug. Shatter and shock protection for glass parts are to be provided by the customer.

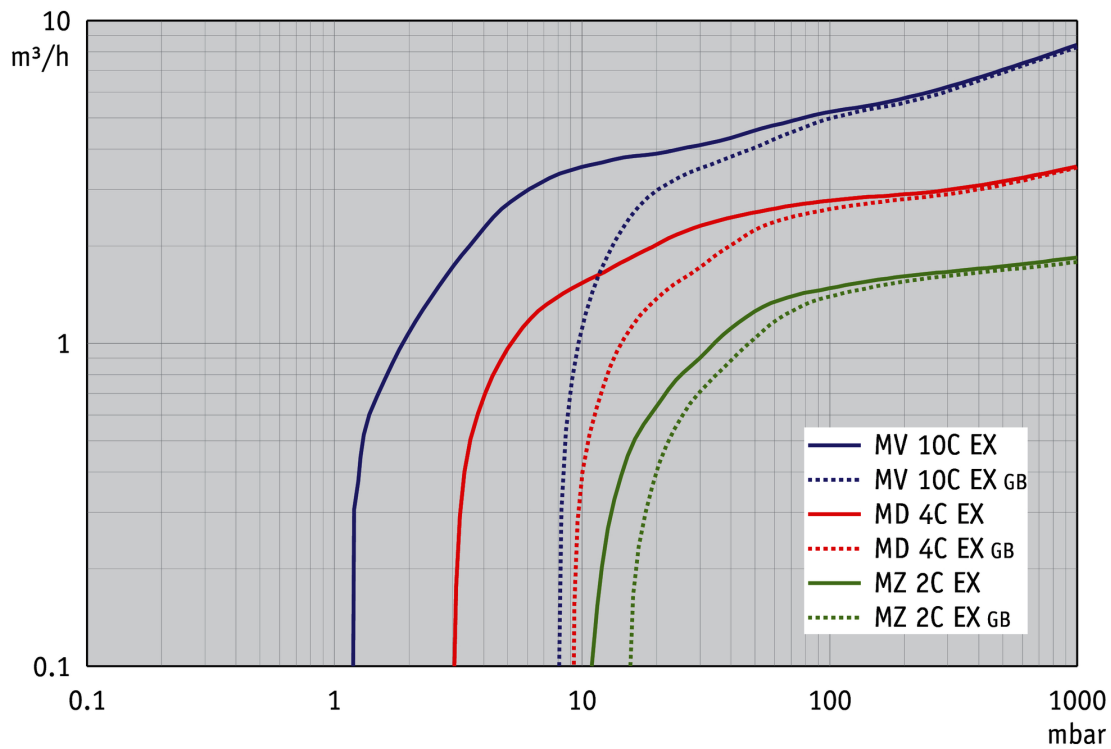
Accessories

- PTFE-tubing (antistatic) with small flanges KF DN 25 (20686033)
- Set of diaphragms and valves MZ 2C EX, MD 4C EX (2x), MV 10C EX (4x) (20696837)

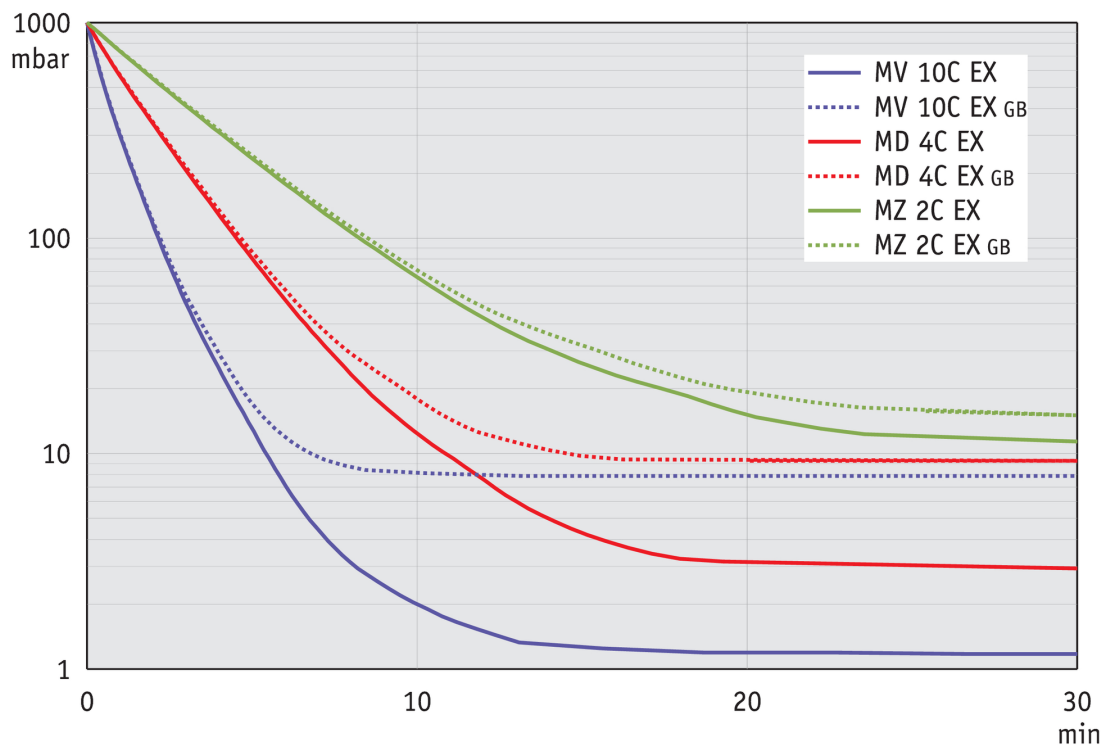
Technical data

Max. pumping speed 50 Hz (m³/h)	3.7 m³/h
Ultimate vacuum	3 mbar / 2.3 torr
Ultimate vacuum 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 ⁻¹
Protection class IEC 60529	IP 54
Dimensions (L x W x H)	600 mm x 365 mm x 420 mm
Weight	38.5 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

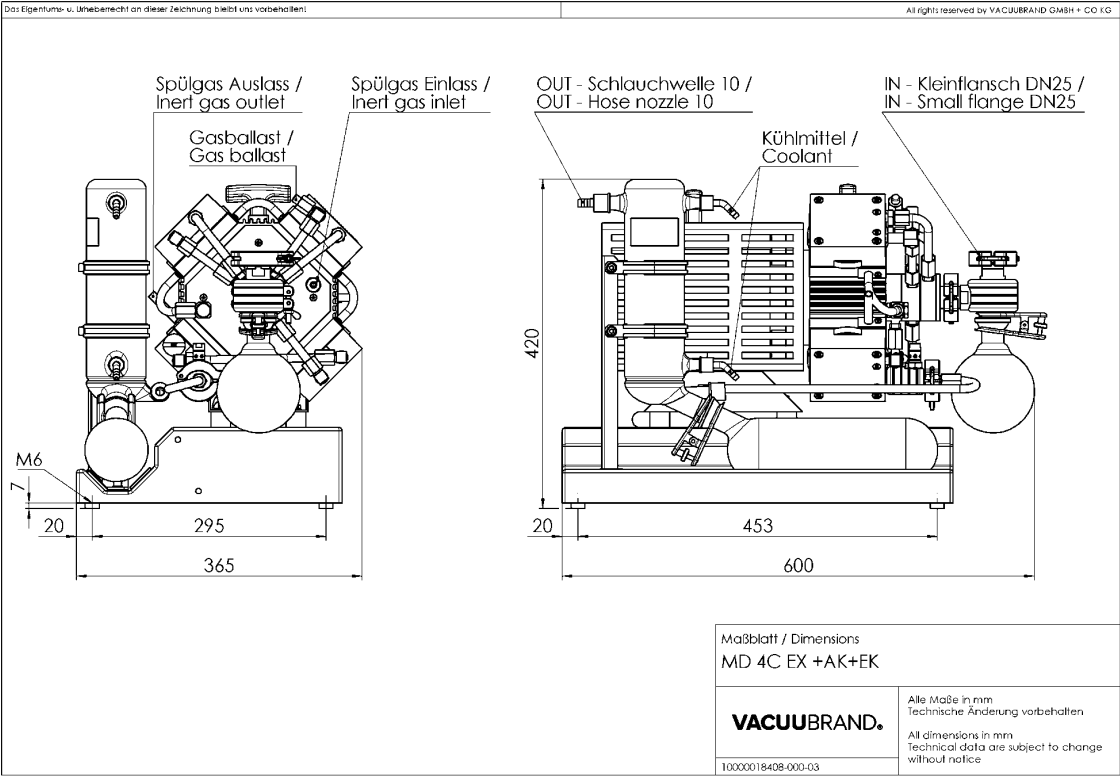
Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (100 l volume)



Dimension sheet



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