

CHEMISTRY VACUUM SYSTEM

ME 16C NT AND ME 16C NT +EK

■ Chemistry diaphragm pumps of the NT design are an excellent solution for continuous, oil-free pumping of corrosive gases and vapors. The one-stage construction provides the advantageous combination of high pumping speed and low ultimate vacuum down to 70 mbar. All major parts in contact with pumped media are made of chemically resistant fluoroplastics. Well-proven PTFE sandwich diaphragms for increased reliability and extended operating life. The eight cylinders pump ME 16C NT provides a particularly high performance together with a compact design. Upgraded with an outlet exhaust vapor condenser (EK) the ME 16C NT +EK provides an environmental friendly system with efficient solvent recovery. Eight-cylinder NT pumps feature quiet operation, smooth and easy to clean surfaces.

PERFORMANCE FEATURES

- outstanding chemical resistance and superior vapor tolerance
- very high pumping speed even at low vacuum levels
- compact design
- whisper quiet and very low vibration
- excellent environmental friendliness due to efficient solvent recovery



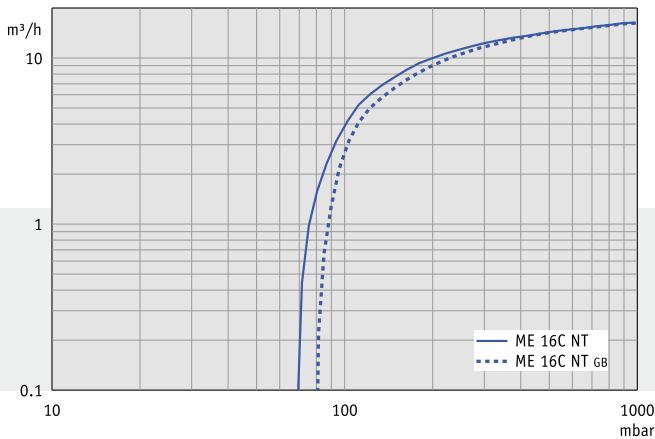
ME 16C NT
16.3 m³/h
70 mbar



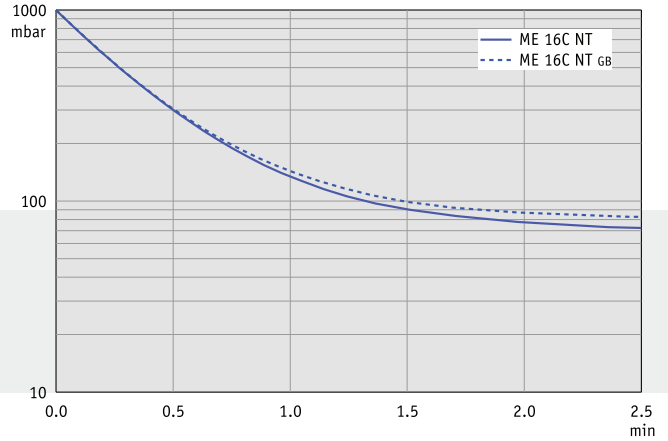
ME 16C NT +EK
16.3 m³/h
70 mbar

APPLICATIONS

Large one-stage chemistry diaphragm pumps are an excellent choice for pumping large amounts of gases and vapors. They do not consume water and therefore do not produce any contaminated waste water. Typical applications are filtration networks and in general evaporation of low boiling solvents. The ME 16C NT is an excellent choice for processes with large gas flow at high process pressures. It can easily be upgraded with accessories like inlet separator (AK) for challenging applications and an exhaust vapor condenser (EK) for solvent recovery.



Pumping speed graph at 50 Hz with/without gas ballast



Pump down graph at 50 Hz with/without gas ballast (100 l volume)

Pumping speeds and pump down times are only for information. Ultimate vacuum specification: See "Technical Data"

TECHNICAL DATA

		ME 16C NT	ME 16C NT +EK
Number of heads / stages		8 / 1	8 / 1
Max. pumping speed 50/60 Hz	m ³ /h	16.3 / 18.4	16.3
Ultimate vacuum (abs.)	mbar	70	70
Ultim. vac. (abs.) with gas ballast	mbar	100	100
Max. back pressure (abs.)	bar	1.1	1.1
Inlet connection		Small flange KF DN 25	Small flange KF DN 25
Outlet connection		Hose nozzle DN 15 mm	Hose nozzle DN 8-10 mm
Rated motor power	kW	0.44	0.44
Degree of protection		IP 40	IP 40
Dimensions (L x W x H), approx.	mm	533 x 260 x 359	528 x 387 x 395
Weight, approx.	kg	28.1	29.1

ORDERING INFORMATION ME 16C NT

230 V ~ 50-60 Hz	CEE	Ex*	741300
230 V ~ 50-60 Hz	UK	Ex*	741302
100-115 V ~ 50-60 Hz / 120 V ~ 60 Hz	US		741303

Ex*: ATEX: II 3G IIC T3 X, Internal Atm. only

ORDERING INFORMATION ME 16C NT +EK

230 V ~ 50-60 Hz	CEE	Ex*	741500
100-115 V ~ 50-60 Hz / 120 V ~ 60 Hz	US		741503

Ex*: ATEX: II 3G IIC T3 X, Internal Atm. only

ACCESSORIES ME 16C NT

- PTFE tubing KF DN 25 (1000 mm: 686033)
- Inlet separator KF DN 25 (699979)
- Emission condenser kit for NT pump models (699948)
- Centering and sealing ring KF DN 25 C Al/FEP (635722)

ACCESSORIES ME 16C NT +EK

- PTFE tubing KF DN 25 (1000 mm: 686033)
- Inlet separator KF DN 25 (699979)
- Centering and sealing ring KF DN 25 C Al/FEP (635722)
- Rubber vacuum tubing DN 8 mm (686001)

ITEMS SUPPLIED

Pump completely mounted, ready for use, with manual.