CHEMISTRY DIAPHRAGM PUMP

MD-4C-NT

MD 4C NT 2.2 CFM Chemistry Diaphragm Pump, 110-120V

The Vacuubrand MD 4C NT is designed for continuous, oil-free pumping of corrosive gases and vapors, reaching an ultimate vacuum of 1.5 mbar / 1.1 torr at up to 2.2 CFM. All parts in contact with pumped media are chemically resistant fluoroplastics, and PTFE sandwich diaphragms with a maintenance-free drive support reliable laboratory operation.

- **Chemically resistant path.** All wetted parts are chemically resistant fluoroplastics.
- **Vapor tolerant.** Gas ballast supports pumping condensable vapors from high-boiling solvents.
- **Long diaphragm life.** PTFE sandwich diaphragms; diaphragms and valves typically last 15,000 operating hours.
- **Maintenance-free drive.** Encapsulated bearings filled with long-life lubricant.
- **Quiet operation.** 45 dB(A) emission sound pressure level.

MODEL MD-4C-NT



1.5 mbar	2.2 CFM	0.25 kW	8 to 10 mm	45 dB(A)
ULTIMATE VACUUM	PUMPING SPEED AT 60 HZ	RATED MOTOR POWER	HOSE NOZZLE DN	SOUND PRESSURE LEVEL

Technical Specifications

Model **MD-4C-NT**

PERFORMANCE

Max. pumping speed 50 Hz	3.4 m3/h
Max. pumping speed 60 Hz	2.2 CFM
Ultimate vacuum	1.5 mbar / 1.1 torr
Ultimate vacuum with gas ballast	3 mbar / 2.2 torr
Heads / stages	4 / 3
Max. back pressure (abs.)	1.1 bar
Noise level	45 dB(A) (uncertainty KpA: 3 dB(A))

OPERATION

Operation	Continuous, oil-free
Ambient temperature, operation	10°C to 40°C (50 to 104 °F)
Ambient temperature, storage	-10°C to 60°C (14 to 140 °F)
Relative humidity	30 to 85 % (no condensation)
Max. altitude	6500 ft (2000 m)
Warm-up period	Approximately 15 min.
Diaphragm and valve lifetime	Typically 15,000 operating hours

CONSTRUCTION

Wetted materials	Chemically resistant fluoroplastics
Diaphragms	PTFE sandwich
Connections	Hose nozzle DN 8-10 mm, inlet and outlet
Protection class	IP 40

ELECTRICAL

Power requirements	110-120V 50-60Hz 15A single phase
Rated motor power	0.25 kW
Motor speed 50/60 Hz	1500/1800 rpm
Device fuse	Slow blow fuse 6.3 A
Motor protection	Thermal cutout, manual reset

DIMENSIONS

Dimensions	328 mm x 243 mm x 198 mm
Weight	47 lb

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	ELECTRICAL
MD-4C-NT	MD 4C NT Chemistry Diaphragm Pump 2.2 CFM, 1.5 mbar ultimate vacuum	110-120V 50-60Hz 15A single phase

IDEAL APPLICATIONS

Rotary evaporators · Parallel evaporators · Concentrators · Drying ovens · Gel dryers · Corrosive gases and vapors

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