

VARIO® CHEMISTRY PUMPING UNIT

MZ 2C NT VARIO AND PC 3002 VARIO

■ VARIO® pumps and pumping units provide precise vacuum control by adaptation of the diaphragm pump's motor speed. They feature fully automatic evaporation control on the push of a button. The basic pump is the MZ 2C NT VARIO two-stage chemistry diaphragm pump which meets medium vacuum requirements for most solvents. The pumping unit PC 3002 VARIO is a well proven choice for evaporation of large amounts of solvents. The separator at the inlet collects particles and liquid droplets. The waste vapor condenser at the outlet enables near-100-percent solvent recovery, efficient recycling and active environmental protection. The on-demand motor speed control results in unparalleled length of service intervals for wearing parts such as diaphragms.



PERFORMANCE FEATURES

- automatic adaptation of the vacuum level throughout the process for high process reliability and unattended operation
- short process times due to zero-fluctuation (hysteresis-free) vacuum control
- easily operated CVC 3000 vacuum controller with clear text menus, with integrated venting valve
- extraordinary diaphragm life for minimum operational and servicing costs
- PC 3002 VARIO: excellent environmental friendliness due to efficient solvent recovery



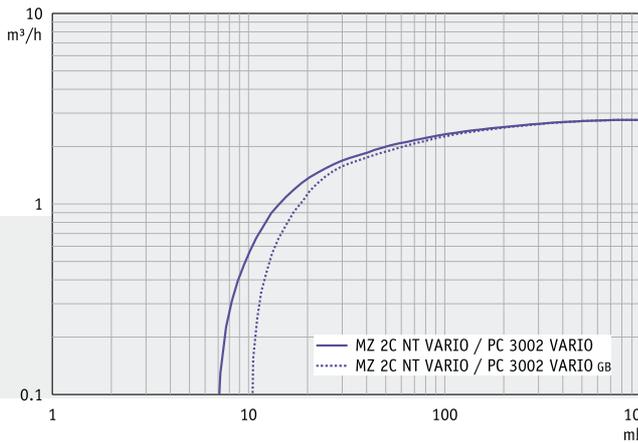
PC 3002 VARIO
2.8 m³/h
7 mbar

MZ 2C NT VARIO
2.8 m³/h
7 mbar

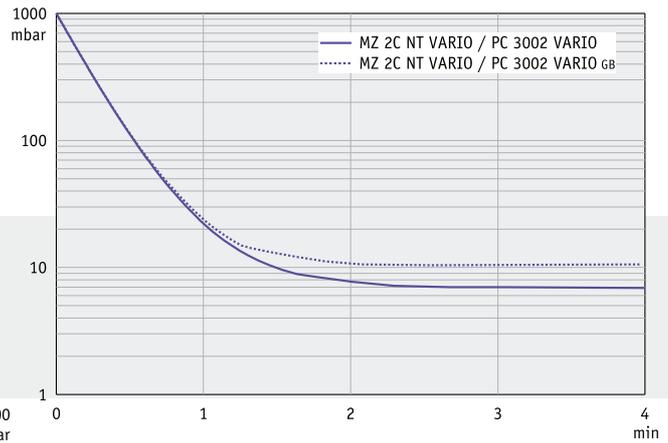


APPLICATIONS

Typical applications are all evaporation processes. Evaporation processes can be run fully automatically and with short process times and high sensitivity at the same time. The VARIO® control ensures high process reliability through prevention of superheating or foaming. The control allows for automatic vacuum level adaptation and is self-adapting to changing process parameters at any time. The VACUU·BUS® interface facilitates a user-friendly configuration of even complex vacuum installations.



Pumping speed graph with/without gas ballast



Pump down graph with/without gas ballast (10 l volume)

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

TECHNICAL DATA

		MZ 2C NT VARIO	PC 3002 VARIO
Vacuum controller		CVC 3000	CVC 3000
Max. pumping speed	m³/h	2.8	2.8
Ultimate vacuum (abs.)	mbar	7	7
Ultim. vac. (abs.) with gas ballast	mbar	12	12
Max. back pressure (abs.)	bar	1.1	1.1
Inlet connection		Hose nozzle DN 8-10 mm	Hose nozzle DN 8-10 mm
Outlet connection		Hose nozzle DN 8-10 mm	Hose nozzle DN 8-10 mm
Coolant connection		-	2 x hose nozzle DN 6-8 mm
Vacuum sensor connection		PTFE tubing connection 10/8 mm, hose nozzle DN 6/10 mm (KF DN 16 optional)	Internally connected
Rated motor power	kW	0.53	0.53
Degree of protection		IP 20	IP 40
Dimensions (L x W x H), approx.	mm	243 x 243 x 245	419 x 243 x 444
Weight, approx.	kg	13.8	17.4

ORDERING INFORMATION MZ 2C NT VARIO

200-230 V ~ 50-60 Hz	CEE	Ex*	732400
200-230 V ~ 50-60 Hz	CH, CN	Ex*	732401
200-230 V ~ 50-60 Hz	UK	Ex*	732402
100-120 V ~ 50-60 Hz	US		732403

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

 VACUU·BUS®-compatible accessories ▶ pg. 164
 Additional accessories ▶ pg. 169

ORDERING INFORMATION PC 3002 VARIO

200-230 V ~ 50-60 Hz	CEE	Ex*	733500
200-230 V ~ 50-60 Hz	CH, CN	Ex*	733501
200-230 V ~ 50-60 Hz	UK	Ex*	733502
100-120 V ~ 50-60 Hz	US		733503

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

PC 3002 VARIO EK Peltronic

on request

ACCESSORIES

- Coolant valve VKW-B (674220)
- Vent valve VBM-B (674217)
- Liquid level sensor (699908)
- Rubber vacuum tubing DN 8 mm (686001)

ITEMS SUPPLIED

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

ITEMS SUPPLIED PC 3002 VARIO EK Peltronic

Pumping unit completely mounted with Peltronic® emission condenser, with manual.