

## VARIO™ CHEMISTRY PUMPING UNIT

### MZ 2C NT VARIO AND PC 3002 VARIO

- NT VARIO pumps and pumping units provide precise vacuum control by adaptation of the diaphragm pump's motor speed. 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.

**PC 3002 VARIO**  
2.8 m<sup>3</sup>/h  
7 mbar



**MZ 2C NT VARIO**  
2.8 m<sup>3</sup>/h  
7 mbar



#### PERFORMANCE FEATURES

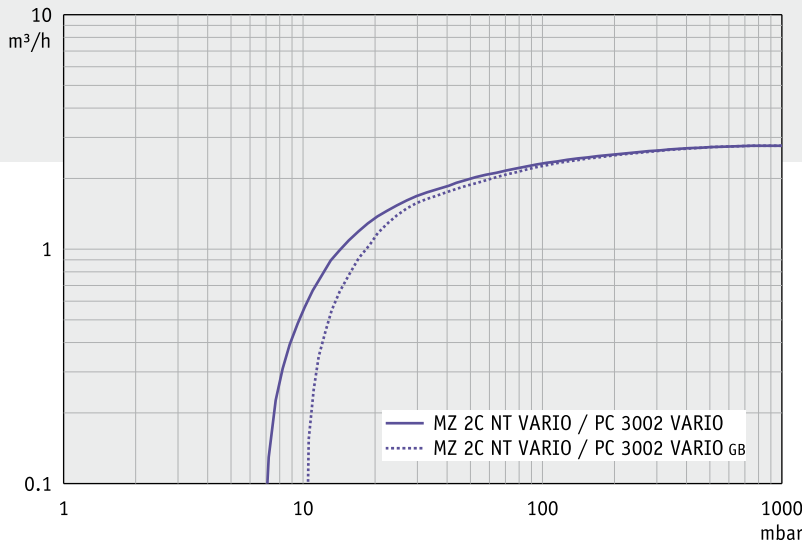
- automatic adaptation of the vacuum level throughout the process for high process reliability and unattended operation
- short process times due to zero-fluctuation (hysteresis-free) vacuum control
- easily operated CVC 3000 vacuum controller with clear text menus, with integrated venting valve
- extraordinary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

#### APPLICATIONS

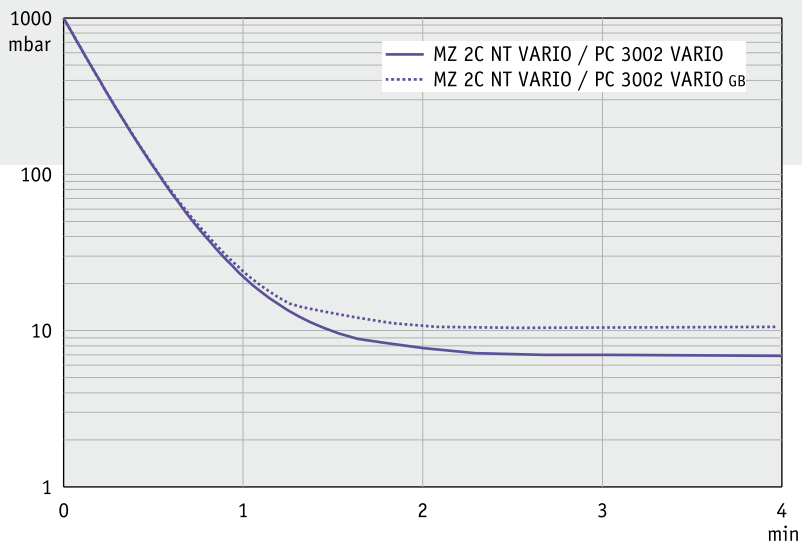
Typical applications are all evaporation processes. Evaporation processes can be run fully automatically and with short process times and high sensitivity at the same time. The VARIO control ensures high process reliability through prevention of superheating or foaming. The control allows for automatic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

CVC 3000 ▶ pg. 142

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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	ORDERING INFORMATION	MZ 2C NT VARIO
Vacuum controller	CVC 3000	CVC 3000	200-230 V ~ 50-60 Hz	CEE 732400
Max. pumping speed	m <sup>3</sup> /h 2.8	2.8	200-230 V ~ 50-60 Hz	CH 732401
Ultimate vacuum (abs.)	mbar 7	7	200-230 V ~ 50-60 Hz	UK 732402
Ultim. vac. (abs.) with gas ballast	mbar 12	12	100-120 V ~ 50-60 Hz	US 732403
Max. back pressure (EX) (abs.)	bar 1.1	1.1	ORDERING INFORMATION	PC 3002 VARIO
Inlet connection (IN)	Hose nozzle DN 10 mm	Hose nozzle DN 10 mm	200-230 V ~ 50-60 Hz	CEE 733500
Outlet connection (EX)	Hose nozzle DN 10 mm	Hose nozzle DN 10 mm	200-230 V ~ 50-60 Hz	CH 733501
Coolant connection	-	2 x hose nozzle DN 6-8 mm	200-230 V ~ 50-60 Hz	UK 733502
Rated motor power	kW 0.575	0.575	100-120 V ~ 50-60 Hz	US 733503
Degree of protection	IP 20	IP 20		
Dimensions (L x W x H)	mm 242 x 242 x 245	422 x 258 x 516		
Weight	kg 13.8	18.4		

**ACCESSORIES**

- Rubber vacuum tubing DN 10 mm (686002)
- Coolant valve VKW-B (674220)
- Vent valve VBM-B (674217)
- Liquid level sensor (699908)

**ITEMS SUPPLIED**

Pumping unit completely mounted, ready for use, with manual