

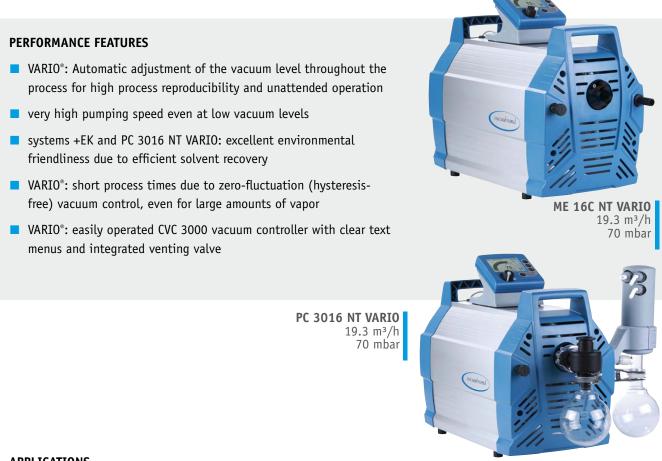
optional remote control

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# VARIO<sup>®</sup> CHEMISTRY PUMPING UNIT ME 16C NT VARIO, PC 3016 NT VARIO

These powerful pumps feature exceptionally high pumping speed. VARIO<sup>®</sup> pumping units provide precise vacuum control by adjusting the diaphragm pump's motor speed. They feature fully automatic evapora-

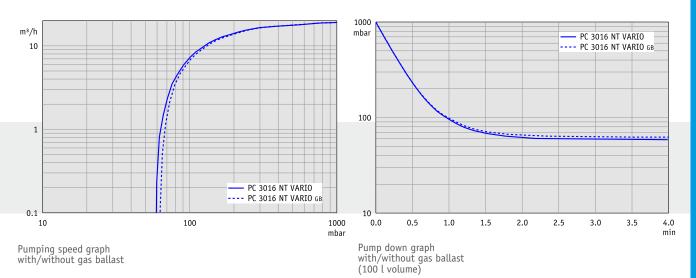
tion control at the push of a button. The PC 3016 NT VARIO pumping unit is a proven concept for evaporations with large amounts of solvents. The inlet separator (AK) retains particles and liquid droplets, the waste vapor condenser at the outlet (EK) is highly efficient and compact. The condenser enables near-100-percent solvent recovery, efficient recycling, and active protection of the environment. Eight-cylinder NT pumps features quiet operation with smooth, easy-to-clean surfaces.



## APPLICATIONS

The extraordinarily high pumping speed reduces the process time significantly and permits the usage of these pumps to support large vacuum networks, or in life science labs where high gas throughput is needed, but only a modest vacuum level. VARI0<sup>®</sup> provides hysteresis-free vacuum control. Typical applications with such characteristics include evaporation processes with low boiling solvents. Evaporation processes can be run fully automatically and with short process times and high sensitivity at the same time. The VARIO<sup>®</sup> control ensures high process reliability by preventing superheating and foaming. The inlet separator of the PC 3016 NT VARIO<sup>®</sup> makes this pump well-suited to rough operating conditions and enables efficient solvent recovery. These accessories such as the optional separator at the inlet (AK) for pump protection and the exhaust waste vapor condenser (EK), can be mounted to the pumps later, if the need arises.





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

TECHNICAL DATA		ME 16C NT VARIO	PC 3016 NT VARIO
Vacuum controller		CVC 3000	CVC 3000
Number of heads / stages		8 / 1	8 / 1
Max. pumping speed 50/60 Hz	m³/h	19.3	19.3
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 /
			hose nozzle DN 15 mm
Outlet connection		Hose nozzle DN 15 mm	Hose nozzle DN 8-10 mm
Vacuum sensor connection		PTFE tubing connection 10/8 mm, hose	PTFE tubing connection 10/8 mm, hose
		nozzle DN 6/10 mm (KF DN 16 optional)	nozzle DN 6/10 mm (KF DN 16 optional)
Rated motor power	kW	0.53	0.53
Degree of protection		IP 40	IP 40
Dimensions (L $\times$ W $\times$ H), approx.	mm	533 x 260 x 420	616 x 387 x 420
Weight, approx.	kg	28.1	29.7

ORDERING INFORMATION ME 16C NT VARIO					
200-230 V ~ 50-60 Hz	CEE	Ex*	741700		
100-120 V ~ 50-60 Hz	US		741703		
Ex*: ATEX: II 3G IIC T3 X, Internal At	tm. only				

ORDERING INFORMATION PC 3016 NT VARIO						
200-230 V ~ 50-60 Hz	CEE	Ex*	741800			
100-120 V ~ 50-60 Hz	US		741803			
Ex*: ATEX: II 3G IIC T3 X, Internal Atm. only						
VACUU·BUS <sup>®</sup> -compatible accessories	pg.164					
Additional accessories	pg.169					

#### ACCESSORIES ME 16C NT VARIO

PTFE tubing KF DN 25 (1000 mm: 686033) Inlet separator KF DN 25 (699979) Emission condenser kit for NT pump models (699948) Rubber vacuum tubing DN 15 mm (686003) Vent valve VBM-B (674217) Centering and sealing ring KF DN 25 C Al/FEP (635722)

### ACCESSORIES PC 3016 NT VARIO

PTFE tubing KF DN 25 (1000 mm: 686033) Vent valve VBM-B (674217) Centering and sealing ring KF DN 25 C Al/FEP (635722) Rubber vacuum tubing DN 8 mm (686001)

#### **ITEMS SUPPLIED**

Pumping unit completely mounted, ready for use, with manual