

# VARIO® CHEMISTRY PUMPING UNIT MD 12C NT VARIO AND PC 3012 NT VARIO

These VARIO® pumping units feature a very high pumping speed even close to the outstanding ultimate vacuum and are ideal for high vacuum requirements with most high boiling solvents. They provide precise vacuum control by continuously adjusting the pump's motor speed. The controller provides fully automatic evaporations without any need for parameter input. The pump design offers exceptionally high chemical resistance supporting almost universal usage in chemistry and pharmaceutics. The PC 3012 NT VARIO pumping unit relies on a well-proven operating 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. The MD 12C NT VARIO can be equipped with these accessories later.

#### PERFORMANCE FEATURES

- automatic adjustment of the vacuum level throughout the process for high process reproducibility and unattended operation
- short process times due to zero-fluctuation (hysteresis-free) vacuum control, even for large amounts of vapor
- easily operated CVC 3000 vacuum controller with clear text menus and integrated venting valve
- extraordinary diaphragm life for minimum operational and servicing costs
- PC 3012 NT VARIO: excellent environmental friendliness due to efficient solvent recovery, inlet separator for demanding applications



PC 3012 NT VARIO 12.9 m³/h 1.5 mbar

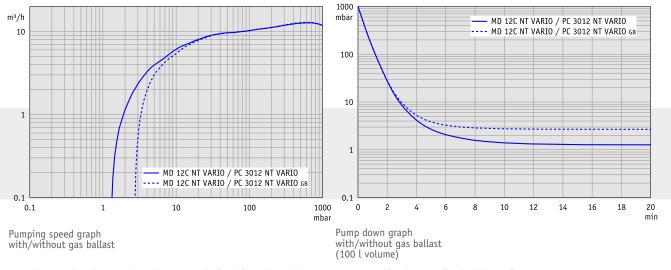


MD 12C NT VARIO 12.9 m³/h 1.5 mbar

### **APPLICATIONS**

The high pumping speed reduces the process time and meets the high vacuum requirements, for example, of parallel operations in vacuum networks. Evaporation processes can be run fully automatically and with short process time without sacrificing sensitivity. The VARIO® control minimizes the danger of superheating and foaming and therefore ensures consistent process safety and protection of samples. With its inlet separator and efficient solvent recovery system, the PC 3012 NT VARIO is ideal for rough operating conditions. The model with Peltronic® emission condenser enables environmentally friendly solvent condensation at the outlet without external coolant.





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

TECHNICAL DATA		MD 12C NT VARIO	PC 3012 NT VARIO
Vacuum controller		CVC 3000	CVC 3000
Number of heads / stages		8 / 3	8 / 3
Max. pumping speed	m³/h	12.9	12.9
Ultimate vacuum (abs.)	mbar	1.5	1.5
Ultim. vac. (abs.) with gas ballast	mbar	3	3
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 10 mm
Coolant connection		-	2 x hose nozzle DN 6-8 mm
Rated motor power	kW	0.53	0.53
Degree of protection		IP 40	IP 40
Dimensions (L x W x H), approx.	mm	531 x 260 x 420	616 x 387 x 420
Weight, approx.	kg	28.1	29.7

## AVAILABLE FROM JUNE 2012

#### ORDERING INFORMATION MD 12C NT VARIO 200-230 V ~ 50-60 Hz CEE 743700 100-120 V ~ 50-60 Hz 743703 Ex\*: ATEX: II 3G IIC T3 X, Internal Atm. only

# AVAILABLE FROM JUNE 2012

ORDERING INFORMATION PC 3012 NT VARIO					
200-230 V ~ 50-60 Hz	CEE	Ex*	743800		
200-230 V ~ 50-60 Hz	CH, CN	Ex*	743801		
100-120 V ~ 50-60 Hz	US		743803		
Ex*: ATEX: II 3G IIC T3 X	, Internal Atm. only				

#### ORDERING INFORMATION PC 3012 NT VARIO EK Peltronic Ex\* 743814\*\*

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

\*\*Please order power cable separately > pg. 179

### **ACCESSORIES MD 12C NT VARIO**

PTFE tubing KF DN 25 (1000 mm: 686033) Inlet separator KF DN 25 (699979)

Emission condenser kit for NT pump models (699948)

# ACCESSORIES PC 3012 NT VARIO, PC 3012 NT VARIO EK Peltronic

PTFE tubing KF DN 25 (1000 mm: 686033) Rubber vacuum tubing DN 10 mm (686002)

## **ITEMS SUPPLIED**

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