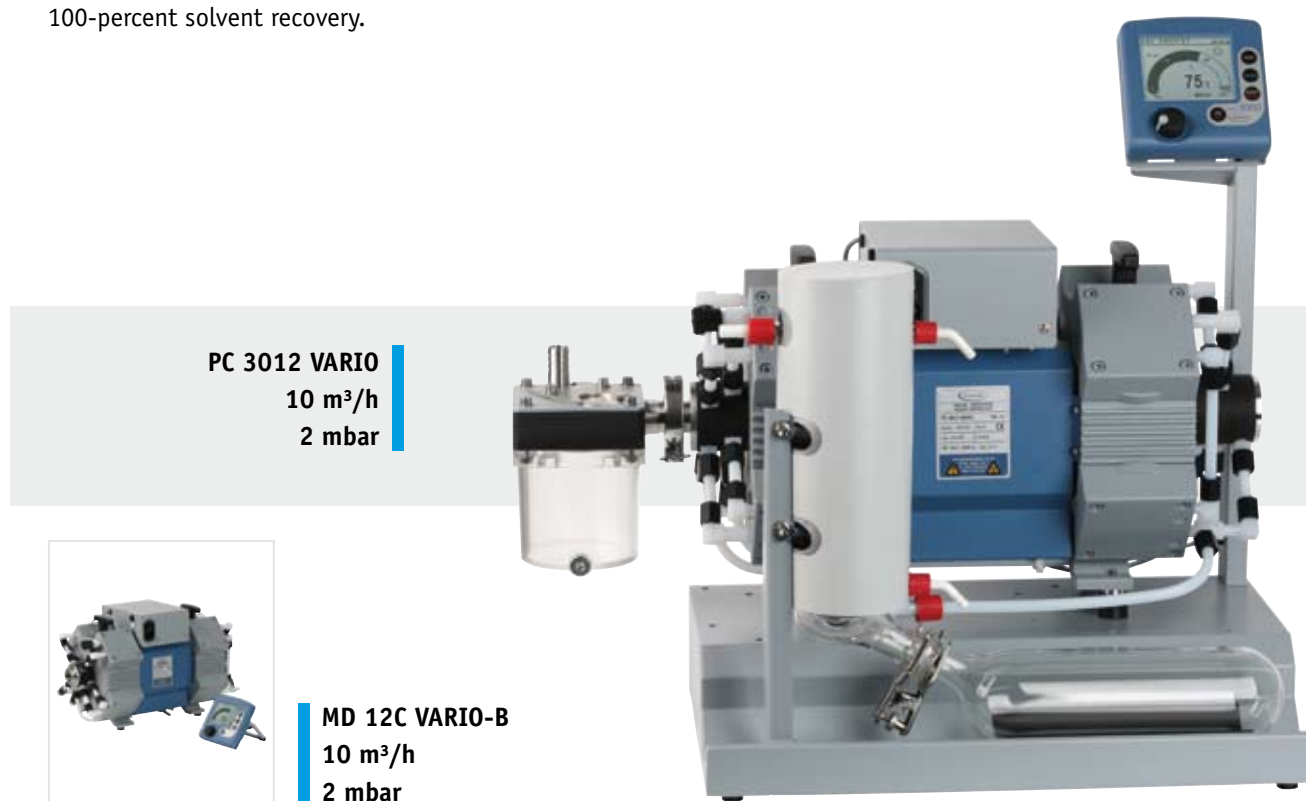


VARIO™ CHEMISTRY PUMPING UNIT

MD 12C VARIO-B AND PC 3012 VARIO

- This VARIO pump and the corresponding pumping unit provide precise vacuum control by adaptation of the diaphragm pump's motor speed. They provide an outstanding pumping speed even close to the excellent ultimate vacuum. The on-demand motor speed control results in unsurpassed total lifetime of service parts such as diaphragms. The basic pump is the three-stage chemistry-design MD 12C VARIO diaphragm pump which offers an outstanding pumping speed and meets high vacuum requirements for most high boiling solvents. The pumping unit PC 3012 VARIO offers a well proven choice for evaporation of large amounts of solvents. The waste vapor condenser at the outlet enables near-100-percent solvent recovery.



PC 3012 VARIO
10 m³/h
2 mbar



MD 12C VARIO-B
10 m³/h
2 mbar

PERFORMANCE FEATURES

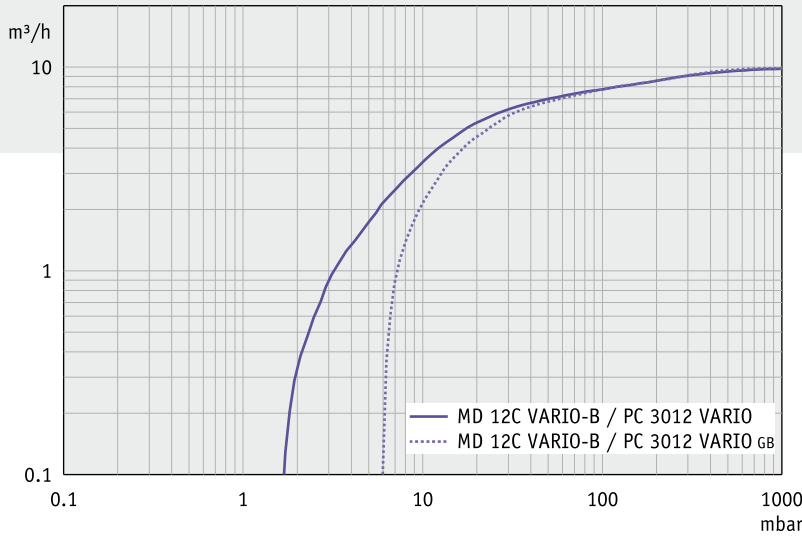
- automatic adaptation of the vacuum level throughout the process for high process reliability and unattended operation
- short process times due to zero-fluctuation (hysteresis-free) vacuum control, even for large amounts of vapor
- easily operated CVC 3000 vacuum controller with clear text menus, with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

APPLICATIONS

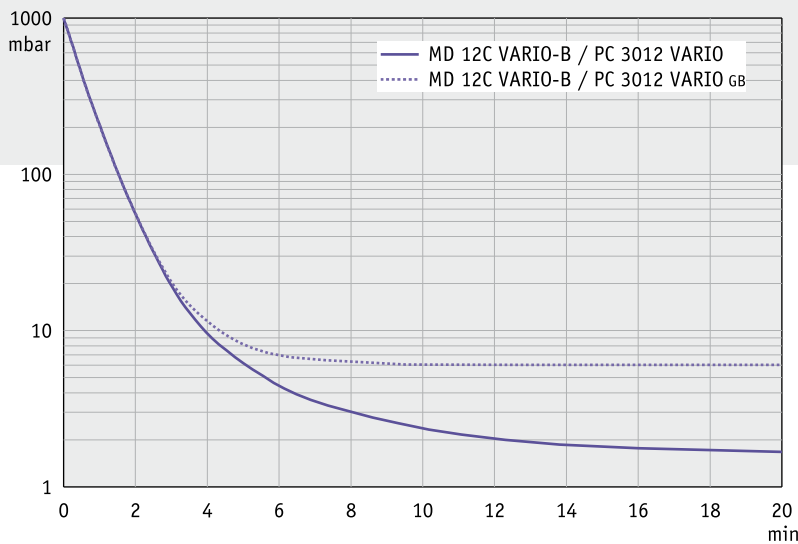
The high pumping speed reduces process times and meets the high vacuum requirements, e.g. of vacuum networks. Typical applications are most large evaporation and drying processes. Evaporation processes, in particular, can be run fully automatically, with shorter process times and extra sensitivity with difficult mixtures. The VARIO control ensures high process reliability through prevention of boiling retardation, superheating or foaming. The pumping unit is ideal for tough conditions and offers efficient solvent recovery.

▶ CVC 3000 pg. 142

▶ VACUU · BUS™ pg. 145



Pumping speed graph at 50 Hz with/without gas ballast



Pump down graph at 50 Hz with/without gas ballast (100 l volume)

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

TECHNICAL DATA		MD 12C VARIO-B	PC 3012 VARIO	ACCESSORIES	MD 12C VARIO-B
Vacuum controller		CVC 3000	CVC 3000	Rubber vacuum tubing DN 10 mm (686002)	
Number of heads / stages		8 / 3	8 / 3	PTFE tubing KF DN 25 (1000 mm: 686033)	
Max. pumping speed	m ³ /h	10	10	Inlet separator AK PC 8 (699980)	
Ultimate vacuum (abs.)	mbar	2	2	Kit PC 8 with emission condenser (699949)	
Ultim. vac. (abs.) with gas ballast	mbar	9	9	Vent valve VBM-B (674217)	
Max. back pressure (EX) (abs.)	bar	1.1	1.1		
Inlet connection (IN)		Small flange KF DN 25	Small flange KF DN 25 / hose nozzle DN 15 mm	ACCESSORIES	PC 3012 VARIO
Outlet connection (EX)		Hose nozzle DN 10 mm	Hose nozzle DN 10 mm	Rubber vacuum tubing DN 10 mm (686002)	
Coolant connection		-	2 x hose nozzle DN 6-8 mm	Rubber vacuum tubing DN 15 mm (686003)	
Rated motor power	kW	0.575	0.575	PTFE tubing KF DN 25 (1000 mm: 686033)	
Degree of protection		IP 20	IP 20	Coolant valve VKW-B (674220)	
Dimensions (L x W x H)	mm	505 x 237 x 303	645 x 365 x 600	Vent valve VBM-B (674217)	
Weight	kg	27	35.8		
ITEMS SUPPLIED		ORDERING INFORMATION	MD 12C VARIO-B	ORDERING INFORMATION	PC 3012 VARIO
Pumping unit completely mounted, ready for use, with manual		200-230 V ~ 50-60 Hz	CEE 710800	200-230 V ~ 50-60 Hz	CEE 710900
		100-120 V ~ 50-60 Hz	US 710803	200-230 V ~ 50-60 Hz	CH 710901
				200-230 V ~ 50-60 Hz	UK 710902

 Further information at www.vacuubrand.com