

## VARIO™ CHEMISTRY PUMPING UNIT

### MV 10C VARIO-B AND PC 3010 VARIO

- This VARIO pump and the corresponding pumping unit provide precise vacuum control by adaptation of the diaphragm pump's motor speed. They provide a very high pumping speed and an outstanding ultimate vacuum. Therefore, they are the ideal solution for evaporation of high boiling solvents even at low temperatures. The on-demand motor speed control results in a unsurpassed lifetime of service parts, such as diaphragms. The PC 3010 VARIO pumping unit that is based on the MV 10C VARIO-B offers a well proven choice for evaporation of large amounts of solvents. The waste vapor condenser at the outlet provides near-100-percent solvent recovery.



**PC 3010 VARIO**  
8.6 m<sup>3</sup>/h  
0.6 mbar



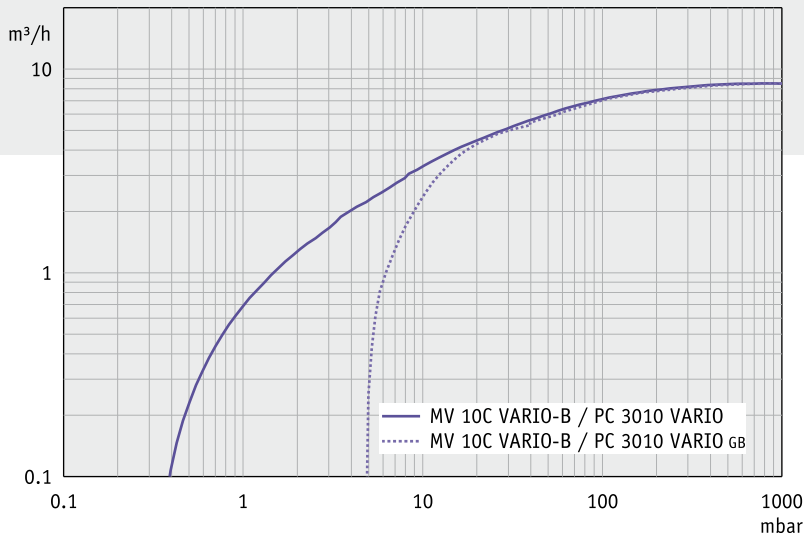
**MV 10C VARIO-B**  
8.6 m<sup>3</sup>/h  
0.6 mbar

#### PERFORMANCE FEATURES

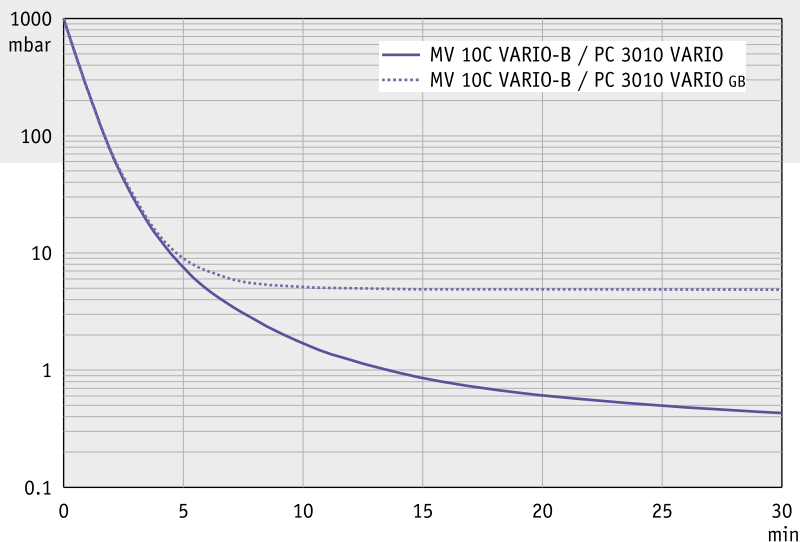
- automatic adaptation of the vacuum level throughout the process for high process reliability and unattended operation
- short process times due high pumping speed and zero-fluctuation (hysteresis-free) vacuum control
- easily operated CVC 3000 vacuum controller with clear text menus, with integrated venting valve
- excellent ultimate vacuum even with gas ballast
- PC 3010 VARIO: Excellent environmental friendliness due to efficient solvent recovery

#### APPLICATIONS

The high pumping speed of the MV 10C VARIO-B reduces the process times for evaporations of high boiling solvents. Typical applications are all evaporation processes. Evaporation processes can be run fully automatically and with shorter process times and extra sensitive at the same time. The VARIO control ensures high process reliability through prevention of superheating or foaming. The pumping unit PC 3010 VARIO is ideal for tough operating conditions. The integrated inlet catchpot and exhaust vapor condenser add convenient vapor control to the excellent performance of the MV 10C VARIO-B pump.



Pumping speed graph with/without gas ballast



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

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

<b>TECHNICAL DATA</b>		<b>MV 10C VARIO-B</b>	<b>PC 3010 VARIO</b>	<b>ACCESSORIES</b>	<b>MV 10C VARIO-B</b>
Vacuum controller		CVC 3000	CVC 3000	Rubber vacuum tubing DN 10 mm (686002)	
Number of heads / stages		8 / 4	8 / 4	PTFE tubing KF DN 25 (1000 mm: 686033)	
Max. pumping speed	m <sup>3</sup> /h	8.6	8.6	Inlet separator AK PC 8 (699980)	
Ultimate vacuum (abs.)	mbar	0.6	0.6	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	<b>ACCESSORIES</b>	<b>PC 3010 VARIO</b>
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		
<b>ITEMS SUPPLIED</b>		<b>ORDERING INFORMATION</b>	<b>MV 10C VARIO-B</b>	<b>ORDERING INFORMATION</b>	<b>PC 3010 VARIO</b>
Pumping unit completely mounted, ready for use, with manual		200-230 V ~ 50-60 Hz	CEE 710600	200-230 V ~ 50-60 Hz	CEE 710700
		200-230 V ~ 50-60 Hz	CH 710601	200-230 V ~ 50-60 Hz	CH 710701
				200-230 V ~ 50-60 Hz	UK 710702