

## 8 Annex

### 8.1 Technical data


Product description  
Product names

#### Chemical pump station series

PC 3002 VARIO select	PC 3003 VARIO select
PC 3004 VARIO select	PC 3004 VARIO select EKP

#### Technical data

Technical data

<b>Ambient conditions</b>		(US)
Ambient temperature	10–40 °C	50–104 °F
Installation height, max.	2000 m above sea level	6562 ft above sea level
Humidity	30–85 %, non-condensing	
Degree of contamination	2	
Impact energy	5 J	
Protection class (IEC 60529)	IP 20	
Protection class (UL 50E)	Type 1	
Avoid condensate or contamination from dust, liquids and corrosive gases.		
<b>Operating conditions</b>		(US)
Operating temperature	10–40 °C	50–104 °F
Storage/transport temperature	-10–60 °C	14–140 °F
Maximum permissible media temperature (gas) of non-explosive atmospheres:		
short-term	80 °C	176 °F
Continuous operation	40 °C	113 °F
ATEX conformity	II 3/- G Ex h IIC T3 Gc X Internal Atm. Only Tech. File: VAC-EX02	
Maximum permissible media temperature (gas) of  atmospheres:		
short-term	40 °C	104 °F
Continuous operation	40 °C	104 °F
<b>Connections</b>		
Vacuum, inlet IN	Hose nozzle DN 6-10	
Gas ballast GB	Gas ballast valve, manual	
Inert gas adapter – OPTION	Small flange GB NT KF DN 16 Hose nozzle GB NT DN 6/10	

Ventilation valve (ventilation with inert gas) – OPTION	Silicon rubber hose 3/6	
Coolant EK	2x (+ 2x) hose nozzle DN 6/8	
Exhaust, outlet EX	Hose nozzle DN 8/10	
Cold-device plug	+ power connection CEE, CH, CN, UK, IN, US	
Plug connector	VACUU·BUS®	
<b>Electrical data</b>	(US)	
Rated voltage	100–230 VAC ±10 %	100–115 VAC ±10 %
Power frequency	50 Hz	60 Hz
<b>Rated current at 50 Hz ...</b>		
... PC 3002	1.4 A	
... PC 3003 / PC 3004	2.5 A	
Power, max.	0.53 kW	
Rated speed	2,400 rpm	
Overvoltage category	II	
Interface	VACUU·BUS®	
Power cable	2 m	
Device fuse 2x	6.3 A/t 5x20	8 A/t 5x20
<b>Vacuum data</b>	(US)	
Inlet pressure / outlet pressure / differential pressure, absolute	1.1 bar	825 Torr
Pressure at gas connections, absolute max.	1.2 bar	900 Torr
Sensor	integrated	integrated
Measurement principle	Ceramic membrane (aluminum oxide), capacitive, gas-type independent, absolute pressure	
Measurement accuracy	±1 mbar/hPa/Torr, ±1 digit (after adjustment, constant temperature)	
Upper measurement limit	1080 mbar	810 Torr
Lower measurement limit	0.1 mbar	0.1 Torr
Temperature drift	< 0.15 mbar/K	0.11 Torr/K
<b>PC 3002</b>		
Pumping speed, max.	2.8 m <sup>3</sup> /h	1.6 cfm
End vacuum, absolute	7 mbar	5 Torr

End vacuum with GB, absolute	12 mbar	9 Torr
Number of cylinders/steps	2/2	
<b>PC 3003</b>		
Pumping speed, max.	2.8 m <sup>3</sup> /h	1.6 cfm
End vacuum, absolute	0.6 mbar	0.45 Torr
End vacuum with GB, absolute	1.5 mbar	1.12 Torr
Number of cylinders/steps	4/4	
<b>PC 3004</b>		
Pumping speed, max.	4.6 m <sup>3</sup> /h	2.7 cfm
End vacuum, absolute	1.5 mbar	1.1 Torr
End vacuum with GB, absolute	3 mbar	2.2 Torr
Number of cylinders/steps	4/3	
<b>Weights* and dimensions (L x W x H)</b>		(US)
PC 3002 VARIO select	419 mm x 243 mm x 444 mm	16.5 in x 9.57 in x 17.48 in
Weight*	17.9 kg	39.5 lb
PC 3003 VARIO select	419 mm x 270 mm x 457 mm	16.5 in x 10.63 in x 18 in
Weight*	21.1 kg	46.6 lb
PC 3004 VARIO select	419 mm x 268 mm x 457 mm	16.5 in x 10.55 in x 18 in
Weight*	21.1 kg	46.6 lb
PC 3004 VARIO select EKP	402 mm x 361 mm x 457 mm	15.83 in x 14.21 in x 18 in
Weight*	25.2 kg	55.5 lb
* without cable		
<b>Other specifications</b>		
Sensor type	VACUU·SELECT Sensor	
Controller	VACUU·SELECT	
Volume of condensate collection tanks	500 ml each	
Sound pressure level at 1,500 min <sup>-1</sup> /62% (VARIO)	42 dBA ±3	