

Technical data

General technical data valid for all pumping units		
ATEX approval if the ATEX marking is shown on the rating plate Inner part (pumped gases)		II 3/- G Ex h IIC T3 Gc X Internal Atm. only Tech.File: VAC-EX02
Maximum pumping speed (ISO 21360)	cfm (m ³ /h)	1.2 (2.0)
Ultimate vacuum (absolute) without gas ballast*	Torr (mbar)	1.5 (2)
Ultimate vacuum (absolute) with gas ballast*	Torr (mbar)	3 (4)
Maximum permissible inlet and outlet pressure (absolute)	psi (bar)	16 (1.1)
Maximum permissible pressure difference between inlet and outlet	psi (bar)	16 (1.1)
Maximum permissible pressure (absolute) at gas ballast valve	psi (bar)	17.5 (1.2)
Permissible ambient temperature storage / operation	°F (°C)	14 to 140 / 50 to 104 (-10 to +60 / +10 to +40)
Permissible relative atmospheric moisture during operation (no condensation)	%	30 to 85
Maximum permissible installation altitude above mean sea level	ft (m)	6500 (2000)
Rated motor power	hp (kW)	0.21 (0.16)
No-load speed**	rpm	0 - 3000
Maximum permissible range of supply voltage (±10%) Attention: Observe specifications of rating plate!		100-230 V~ 50/60 Hz
Maximum rated current at: 100-230 V~ 50/60 Hz	A	1.6-0.7
Device fuse Fuse of VACUU•BUS 24V DC supply		7AF fuse on the circuit board 1.1AT slow blow fuse (with automatic reset) on the circuit board
Motor protection		current limitation (temperature sensor on the circuit board)
Overvoltage category		II

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Degree of protection IEC 60529		IP 20
Degree of protection UL 50E		type 1
Pollution degree		2
Volume of catchpot	quarts (ml)	0.52 (500)
A-weighted emission sound pressure level*** (uncertainty K_{pA} : 3 dB(A))	dB(A)	42

Type		PC 3001 VARIO ^{pro}	PC 3001 VARIO ^{pro} IK
Inlet		hose nozzle for tubing I.D. 1/4" / 3/8" (hose nozzle DN 6/10 mm)	hose nozzle for tubing I.D. 1/2" (hose nozzle DN 13 mm)
Outlet		hose nozzle for tubing I.D. 3/8" (hose nozzle DN 10 mm)****	
Coolant connection (waste vapor condenser)		hose nozzle for tubing I.D. 1/4" - 5/16" (hose nozzle DN 6-8 mm)	
Maximum permissible pressure of coolant at vapor condenser	psi (bar)	87 (absolute) (6 (absolute))	
Permissible range of coolant temperature (vapor condenser)	°F (°C)	5 to 68 (-15 to +20)	
Dimensions L x W x H approx.	in (mm)	11.8 x 12.0 x 15.7 (300 x 306 x 400)	12.2 x 12.3 x 15.7 (309 x 312 x 400)
Weight approx.	lbs. (kg)	17.0 (7.7)*****	18.3 (8.3)

* Ultimate vacuum at setting "Pump down" at speed "HI"

** Running smoothly only at motor speeds higher than 200 rpm

*** Measurement according to EN ISO 2151:2004 and EN ISO 3744:1995 at 1500rpm and ultimate vacuum with exhaust tube at outlet.

**** PC 3001 VARIO^{pro} without condenser: Hose nozzle with silencer

***** PC 3001 VARIO^{pro} without condenser: 12.2 (6.9)