



Varian TV-902

Technical Specifications

Pumping speed (with inlet screen)	
N ₂ :	680 l/s
He:	810 l/s
H ₂ :	850 l/s
Compression ratio	
N ₂ :	>1 x 10 ⁸
He:	1 x 10 ⁵
H ₂ :	1 x 10 ⁴
Base pressure	< 1 x 10 ⁻⁹ mbar
with recommended forepump	(< 1 x 10 ⁻⁹ Torr)
	<i>(According to standard DIN 28 428, the base pressure is that measured in a leak-free test dome, 48 hours after the completion of test dome bake-out, with a Turbopump fitted with a ConFlat flange and using the recommended pre-vacuum pump)</i>
Inlet flange	Custom ISO 160 F
Foreline flange	KF 25
Rotational speed	38000 rpm
Start-up time	< 4 minutes
Recommended forepump	DS 402, TriScroll 300
Operating position	Any
Operating ambient temperature	+10 °C to +35 °C
Bakeout temperature	80 °C at inlet flange max.
Vibration level (displacement)	< 0.01 μm at inlet flange
Lubricant	permanent lubrication
Cooling requirements	Forced air
Noise level	<55 dB(A) at 1 meter
Power supply:	
Input voltage:	100 - 240 Vac (± 10%)
Input freq.:	50 - 60 Hz



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Technical Specifications cont.

Max input power:	600 VA
Stand-by power:	30 to 35 W
Max operating power:	320 W with forced air
Protection fuse	1 x 8 A
Compliance with:	UNI EN 292-1 UNI EN 292-2 EN-CENELEC 55011 IEC 1000-4-2 (ex 801-2) IEC 1000-4-3 (ex 801-3) IEC 1000-4-4 (ex 801-4) EN 61010-1 (IEC 1010-1) EN 1012-2
Power cable	With European or NEMA plug 3 meters long (optional)
Serial communication (Navigator kit)	RS232 cable with a 9-pin D type male connector and a 9-pin D type female connector, and Navigator software (optional)
Installation category	II
Pollution degree	2
Storage temperature	-20 ° C to +70 ° C
Weight kg (lbs)	
Pump:	23,5 (51.8)
Controller:	5.4 (12)



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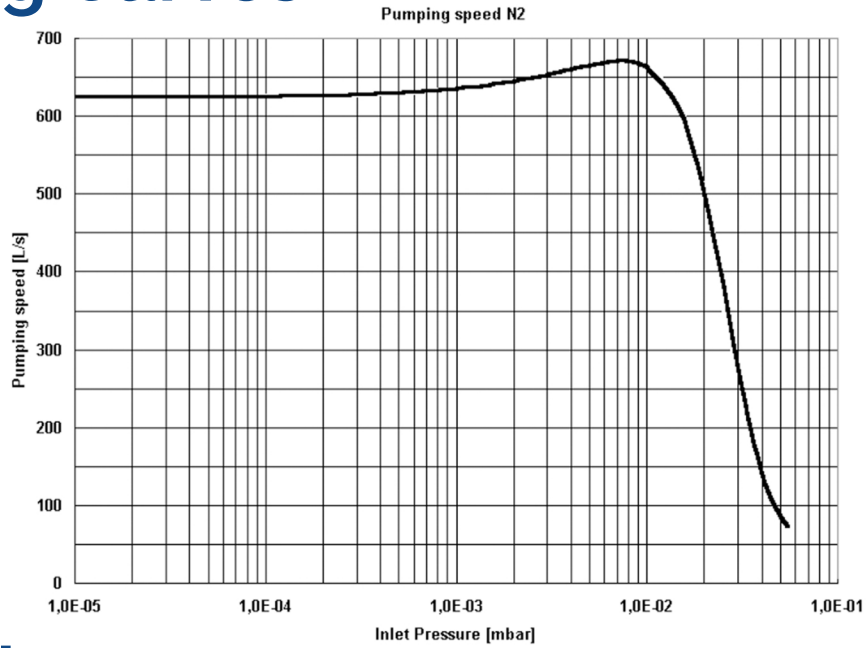
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Pumping Curves



Dimensions

