



Varian TV-1000ICE

Technical Specifications

Pumping speed	N ₂ : 950 l/s He: 870 l/s H ₂ : 900 l/s
Compression ratio	N ₂ : 5×10^9 He: 8×10^6 H ₂ : 2×10^5
Base pressure*	minimum with recommended forepump: $< 1 \times 10^{-10}$ mbar ($< 1 \times 10^{-10}$ Torr)
Inlet flange	ISO 200
Foreline flange	KF 40 NW
Rotational speed	38000 RPM
Start-up time	< 4 minutes
Recommended forepump	Varian VSp 60; Varian VSr 90
Operating position	Any
Cooling requirements	Water (use water with electrical conductivity $\leq 500 \mu\text{S/cm}$)
Operating ambient temperature	+ 5° C to + 35° C

Coolant water	minimum flow: 200 l/h (0.89 GPM) temperature: + 10° C to + 20° C pressure: 3 to 5 bar (45 to 75 Psi)
Bakeout temperature	80° C at inlet flange (ISO flange)
Vibration level (displacement)	< 0.01 μm at inlet flange
Noise level	≤ 45 dB (A) at 1 meter
Input	56 Vac, three phase, 633 Hz
Lubricant	permanent lubrication
Storage temperature	- 20° C to + 70° C
Weight kg (lbs)	ISO 200: 19 (41.8)

* 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.





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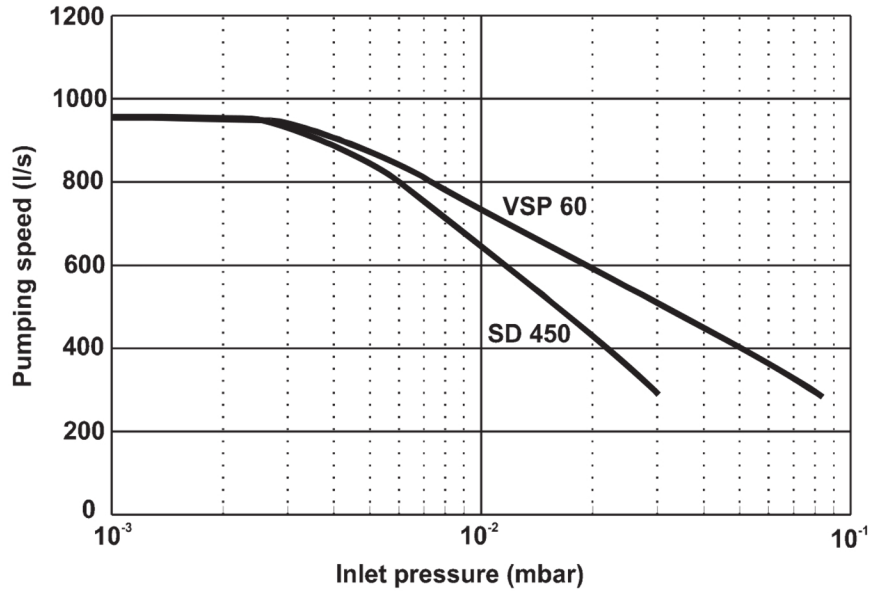
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Pumping Curves



Graph of nitrogen pumping speed vs inlet pressure

Dimensions

