



## Varian TV-250

### Technical Specifications

Pumping speed (l/s)	N <sub>2</sub> : 250 l/s He: 220 l/s H <sub>2</sub> : 200 l/s
Compression ratio	N <sub>2</sub> : $2 \times 10^8$ He: $1 \times 10^5$ H <sub>2</sub> : $1 \times 10^4$
Base pressure*	with recommended mechanical fore-pump: $2 \times 10^{-10}$ mbar ( $1.5 \times 10^{-10}$ Torr) with recommended diaphragm fore pump: $2 \times 10^{-8}$ mbar ( $1.5 \times 10^{-8}$ Torr)
Inlet flange	DN 100 CFF (6" O.D.) DN 100 ISO
Foreline flange	NW 16 KF
Rotational speed	56000 RPM
Start-up time	< 3 minutes
Recommended forepump	Two stage rotary pump SD-40 Diaphragm pump: MDP 30
Operating position	any
Cooling requirements	Natural air convection Forced air or water optional

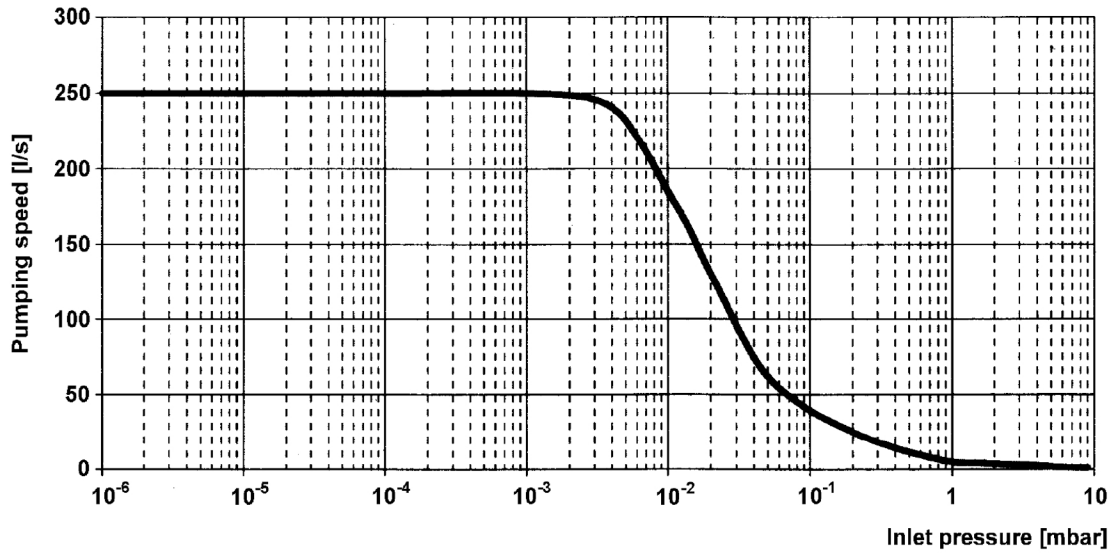
Operating ambient temperature	+ 5° C to + 35° C
Coolant water	flow: 30 l/h (0.13 GPM) temperature: + 10° C to + 30° C pressure: 3 to 4 bar
Bakeout temperature	120° C at inlet CF flange maximum 80° C with ISO flange
Vibration level (displacement)	< 0.01 $\mu$ m at inlet flange
Noise level	45 dB (A) at 1 meter
Input	58 Vac, three phase, 933 Hz
Lubricant	permanent lubrication
Storage temperature	- 20° C to + 70° C
Weight kg (lbs)	ISO: 7.5 (3.4); CFF: 11.4 (5.2)

\* 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.





## Varian TV-250 Pumping Curves



Graph of nitrogen pumping speed against inlet pressure

## Dimensions

