



Varian TV-200

Technical Specifications

High vacuum flange:

- ConFlat® 6" O.D.
- ISO 100 (nominal diameter)

Forevacuum flange NW 25 KF

Pumping speed for:

- N₂ 220 l/s (refer to fig. 1-2a)
- He 210 l/s
- H₂ 180 l/s

Base pressure* 1 x 10⁻⁹ mbar
(8 x 10⁻¹⁰ Torr)

Compression ratio for:

- N₂ 2 x 10⁸
- He 4 x 10³
- H₂ 4 x 10²

Recommended forepump : Varian SD 200
(10 m³/h for Europe)
(7 CFM for USA)

Start-up time 60 seconds

Operating:

- Position Vertical (max slope 10°)
- Voltage 54 Vac ±15% - 3 phase
- Frequency 850 Hz ± 2%
- Ambient temperature 20°C ± 15°C

Nominal speed 51,000 rpm

Max bakeout temperature 120°C at high-vacuum flange

Noise level ≤50 DB (A) at 1 meter

Water-cooled:

- Flow rate 20 l/s (0.09 GPM)
- Temperature + 10°C to 25°C
- Pressure 2 to 4 mbar (30 to 60 Psig)

Air-cooled:

- Flow rate 42 l/s (90 CFM)
- Temperature + 5°C to + 30°C
(see fig. 1-2b)

Lubricant type Varian T.A. oil
(Fomblin on request)

Lubricant charge 35 cm³

Storage temperature -20°C to 70°C

Weight 10 Kg (22 lbs)

* According to DIN 28 428, the base pressure is the pressure measured in the test dome 48 hours after bake-out using the ConFlat flanged Turbo-pump with the recommended forepump.





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Pumping Curves

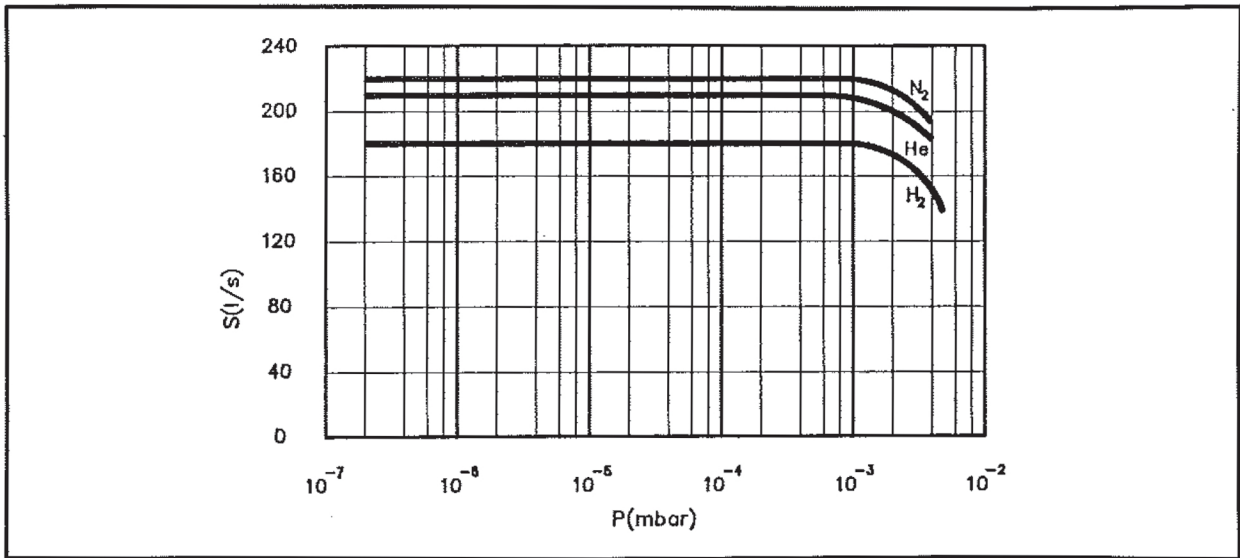


Figure 1-2a) - Pumping speed vs inlet pressure

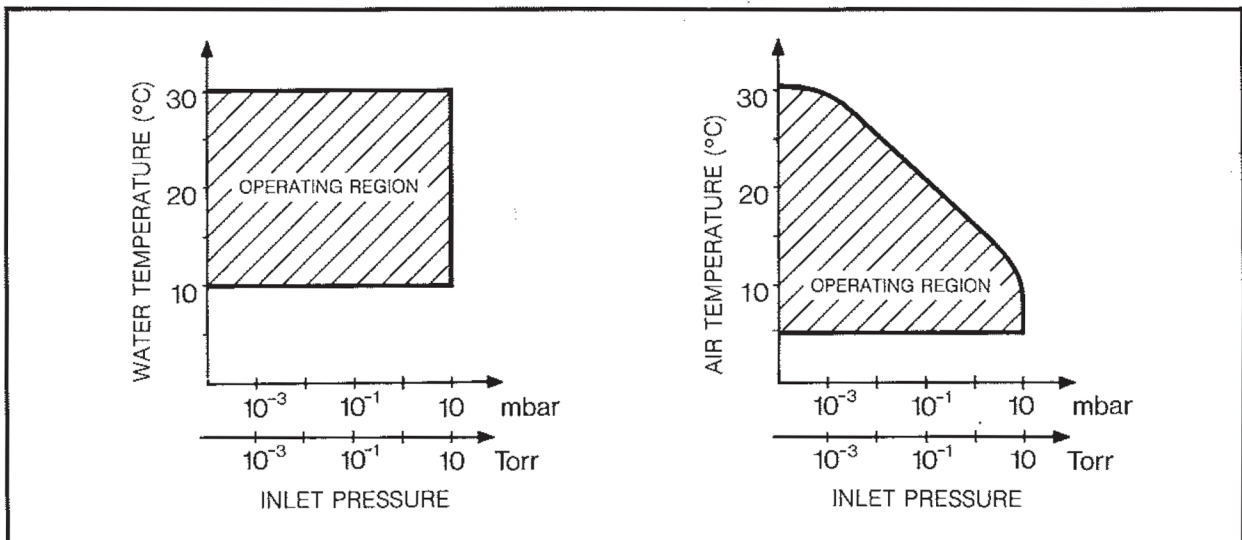


Figure 1-2b) - Maximum operating pressure vs coolant