



Varian TV-150HT

Technical Specifications

Pumping speed N ₂ :	ISO 100: 130 l/s	ISO 63: 100 l/s
He:	120 l/s	105 l/s
H ₂ :	110 l/s	100 l/s
Compression ratio	N ₂ : 3×10^8 He: 8×10^5 H ₂ : 8×10^4	
Base pressure*	with minimum recommended mechanical pump: $< 2 \times 10^{-10}$ mbar ($< 1.5 \times 10^{-10}$ Torr) with minimum recommended diaphragm pump: 2×10^{-8} mbar (1.5×10^{-8} torr)	
Inlet flange	ISO 100, ISO 63, CFF 6", CFF 4.5"	
Foreline flange	KF 16 NW	
Rotational speed	62000 rpm	
Start-up time	< 90 seconds	
Recommended forepump	Mechanical: Varian SD 40 Diaphragm: MD12	
Operating ambient temperature	+ 5° C to + 35° C	

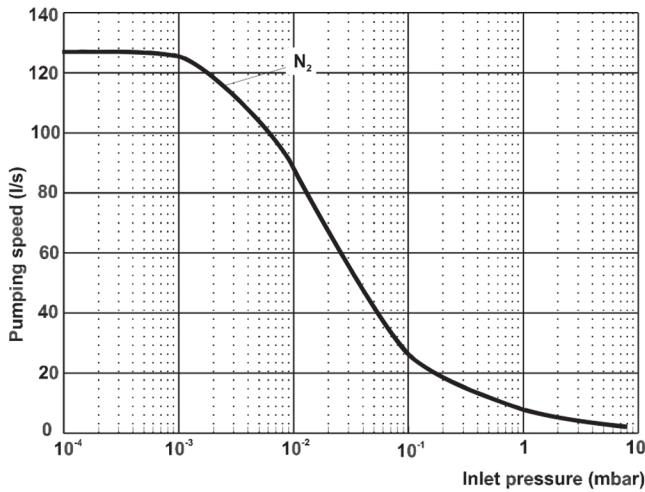
Operating position	Any
Cooling requirements	Forced air or water
Coolant water	minimum flow: 30 l/h (0.13 GPM) temperature: + 10° C to + 30° C pressure: 3 to 4 bar
Bakeout temperature	120° C max. at inlet flange (CF flange) 80° C max. at inlet flange (ISO flange)
Vibration level (displacement)	< 0.01 µm at inlet flange
Input	120 Vac, three phase, 1050 Hz
Lubricant	permanent lubrication
Storage temperature	- 20° C to + 70° C
Weight kg (lbs)	CFF: 5.6 (12.3) ISO: 3.6 (7.9)



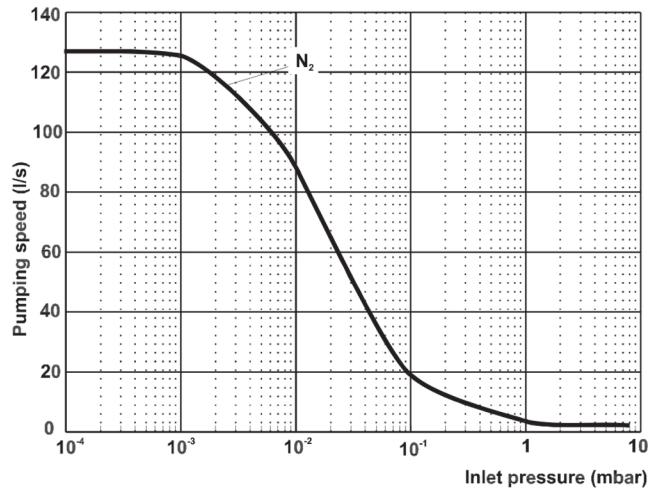
* According to standard DIN 28 428, the base pressure is that measured in a leak-free test dome, 48 hours after the completion of test dome bake-out, with a Turbopump fitted with a ConFlat flange and using the recommended pre-vacuum pump.



Varian TV-150HT Pumping Curves



Pump fed by standard controller



Pump fed by controller model 969-9436, 969-9536

Dimensions

