

TMP-V2304LM

Standard Specifications

Turbo molecular pump		TMP-V2304LM
Inlet flange		VG250 / ISO250B
Outlet flange		KF40
Cooling method		Water
Ultimate pressure (after baking)		10^{-7} Pa order
Maximum allowable Argon gas flow rate (Note 1)		600 mL/min (Note 2)
Maximum allowable inlet pressure (N ₂ continuous exhaust) (Note 1)		4.5 Pa
Maximum allowable outlet pressure (N ₂ continuous exhaust) (Note 1)		200 Pa
Pumping speed (Note 3)(Note 4)	N ₂	2100 L/s
	Ar	2000 L/s
Compression ratio	N ₂	1×10^8 or more
	He	5×10^3
	H ₂	9×10^2
Rated speed		33700 rpm
Start-up time		9 minutes or less
Mounting position		In any desired direction
Vibration level (by Shimadzu's method)		0.01 μ m or less (0-peak)
Recommended pumping speed of backing pump in case of gas purge		1500 L/min or more
Display	LED	POWER / STATUS / ROTATION / NET

Communication	Contact	REMOTE (D-sub 37 pin female, Screw lock size M2.6) Input : START / STOP / RESET / LOW SPEED Output : ROTATION / ACC. / BRAKE / NORMAL / REMOTE / ALARM / WARNING / CONNECTION
	Serial	RS-232C / RS-485 (D-sub 9 pin male, Screw lock size M2.6)
Speed variation		Speed is variable between 25 % and 100 % of the rated speed. (set as 0.1 %)
Water	Flow rate	3 to 4 L/min
	Pressure	0.2 to 0.4 MPa
	Temperature	19 to 30 degrees C. (above dew point)
Admissible ambient magnetic field	Radial direction	3 mT
	Axial direction	15 mT
Input electric power	Voltage	Single phase 200 to 240 VAC \pm 10 % (50 / 60 Hz \pm 2 Hz)
	Maximum power	1.2 kVA
Mass		56 kg

(Note 1) Maximum allowable flow rate, Maximum allowable inlet pressure and Maximum allowable outlet pressure can not be satisfied at same time.

(Note 2) mL/min : volume flow rate at 0 degrees C., 1 atm. (Compatible with SCCM.)

(Note 3) Without a protective net. Pumping speed for N₂ is 1950 L/s with a protective net.

(Note 4) Do not use corrosive gas because there is possibility that the pump breaks down by the product material.