TMP-B300

Standard Specifications

Turbo molecular pump model		TMP-B300	
Cooling method		Convection	Forced air by cooling fan
Ultimate pressure (note 2)	After baking	– (note 1)	10^{-8} Pa order (note 2)
	Non-baking	10^{-6} Pa order	10^{-6} Pa order
Pumping speed (note 3)	N_2	280 L/s	280 L/s
	He	270 L/s	270 L/s
	H_2	220 L/s	220 L/s
Compression ratio	N_2	$> 1 \times 10^9$	$> 1 \times 10^9$
	He	7×10^6	7×10^6
	H_2	1×10^5	1×10^5
Critical backing pressure		1500 Pa	1500 Pa
Maximum allowable continuous backing pressure (note 4)	N_2	100 Pa (ambient < 35° C)	1000 Pa (ambient 25° C) 930 Pa (ambient 35° C)
Maximum allowable gas throughput at continuous pumping		10 SCCM (ambient 25° C) 4 SCCM (ambient 35° C)	100 SCCM (ambient 25° C) 40 SCCM (ambient 35° C)
weight	VG, ISO	6 kg	6.3 kg

	ICF	9 kg	9.3 kg
Bearing type		Passive magnetic bearing and ceramic bearing	
Inlet flange		VG100, DN100CF, ISO100K	
Outlet port		KF16	
Rated speed		60000 rpm	
Stat-up time (up to 80 %)		3.5 minutes	
Mounting direction		In any desired direction	
Noise [Shimadzu's method] (note 5)		≤ 50 dBA	
Admissible ambient magnetic field	Radial direction	3 mT	
	Axial direction	15 mT	
Input electric power	Voltage	DC24 V ± 5 %	
	Maximum power	180 W	

(Note 1) Only pumps equipped with a CF flange and cooling fan can be baked.

(Note 2) When using a two-stage oil-sealed rotary pump as an auxiliary pump.

(Note 3) When no protective net is used. Pumping speed for N2 is 260 L/s when a protective net is used.

(Note 4) Maximum allowable backing pressure for continuous running when gas throughput at inlet port is 0 mL/min

(Note 5) Measured for the ISO flange model.