

TMP-803 Series

Standard Specifications

Pump Main Unit

	TMP-803LM (0)	TMP-803LMC (0)	TMP-803M (0)	TMP-803MC (0)					
Inlet flange	VG150 / ICF203 / ISO160B								
Outlet flange	KF40								
Cooling method	Water		Cooling fan						
Ultimate pressure (after baking) (Note 1)	10 ⁻⁹ Pa order	10 ⁻⁸ Pa order	10 ⁻⁹ Pa order	10 ⁻⁸ Pa order					
Maximum allowable inlet pressure (N ₂ continuous exhaust)	400 Pa		1.3 Pa						
Maximum allowable outlet pressure	665 Pa		40 Pa						
Pumping speed (Note 2)	N ₂	800 L/s							
	He	800 L/s							
	H ₂	700 L/s							
Compression ratio	N ₂	1 x 10 ⁹ or more							
	He	8 x 10 ⁴							
	H ₂	4 x 10 ³							
Rated speed	35000 rpm								
Start-up time	5 minutes or less								
Mounting position	In any desired direction								
Bake-out temperature at an inlet flange	120 degrees C. or less								
Vibration level (by Shimadzu's method)	0.01 μm or less (0-peak)								

Recommended flow rate of purge gas		20 to 30 mL/min (Note 3)
Recommended pumping speed of backing pump in case of gas purge		500 L/min or more
Environmental Temperatures		0 to 40 degrees C.
Admissible ambient magnetic field	Radial direction	3 mT
	Axial direction	15 mT
Water	Flow rate	1 to 3 L/min
	Pressure	0.2 to 0.5 MPa
	Temperature	5 to 30 degrees C.
Mass		33 kg

(Note 1)When using a metal gasket at the inlet flange. When using an o-ring gasket, the ultimate pressure is 10^{-7} Pa order.

(Note 2)Without a protective net. Pumping speed for N₂ is 730 L/s with a protective net.

(Note 3)mL/min : volume flow rate at 0 degrees C., 1 atm. (compatible with SCCM.)

Power Supply Unit

Power supply unit		EI-R04M
Battery		Not Necessary
Exchangeable compatibility		The control cable and the motor cable are interchangeable between any pump and power supply unit.
Speed variation		Speed is variable between 25 % and 100 % of the rated speed. (set as 0.1 %)
Communication	Contact	REMOTE (MR-34) Input : START / STOP / RESET / LOW SPEED Output : ROTATION / ACC. / BRAKE / NORMAL / REMOTE / ALARM / WARNING
	Serial	Front panel : RS-232C (D-sub 9 pin male, Screw lock size : M2.6)

		Rear panel : RS-485 (D-sub 9 pin female, Screw lock size : M2.6)
Environmental conditions	Temperature	Operation 0 to 45 degrees C. (No dew condensation)
	Relative humidity	40 to 80 %RH
Input electric power	Voltage	Single phase 200 to 240 VAC ± 10 % (50/60 Hz ± 2 Hz)
	Maximum power	1.0 kVA
Mass		8 kg