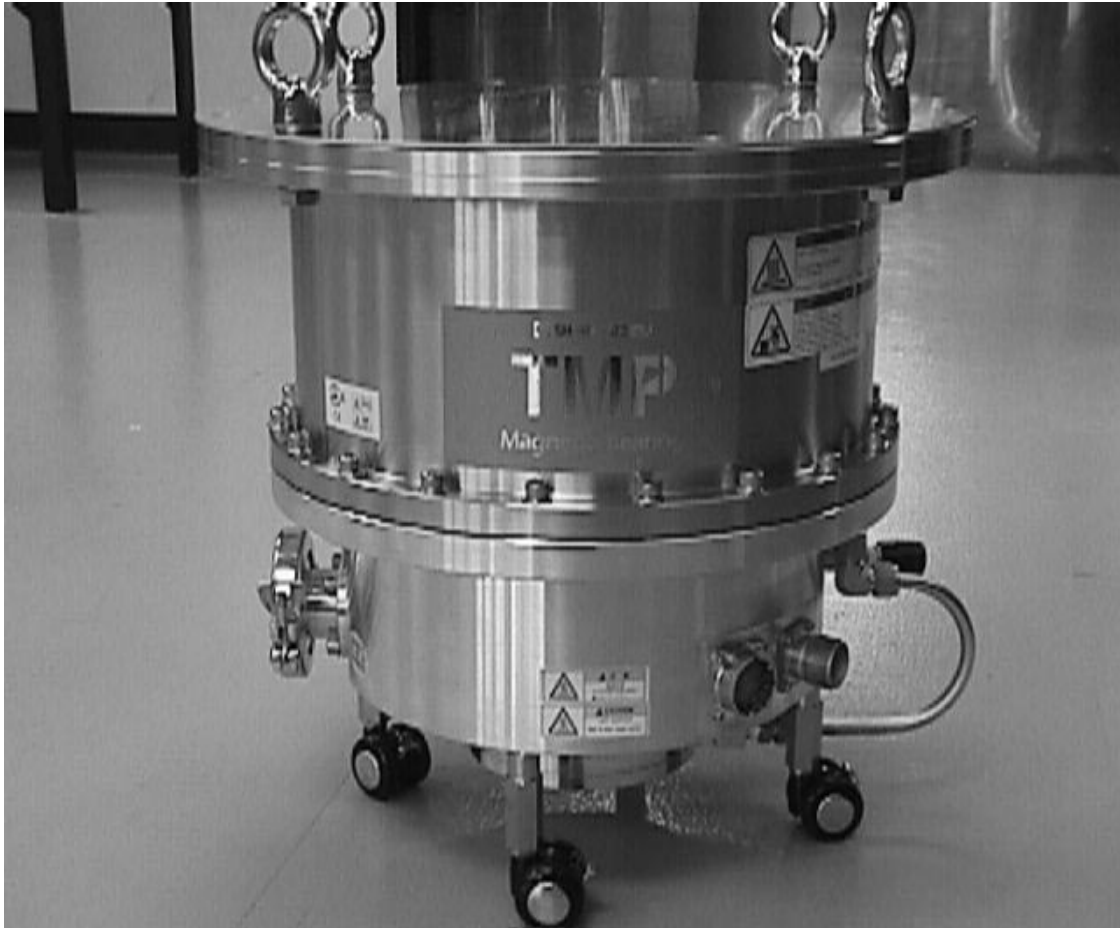




SHIMADZU

PRECISION INSTRUMENTS, INC.



SHIMADZU TMP-3403



FOR SALES AND SERVICE PLEASE CALL:

PTB SALES

T :: 626.334.0500
service@ptbsales.com
www.ptbsales.com

DATE SERVICED: _____

VIEW OUR INVENTORY

PRODUCT SPECIFICATION

TMP-3403

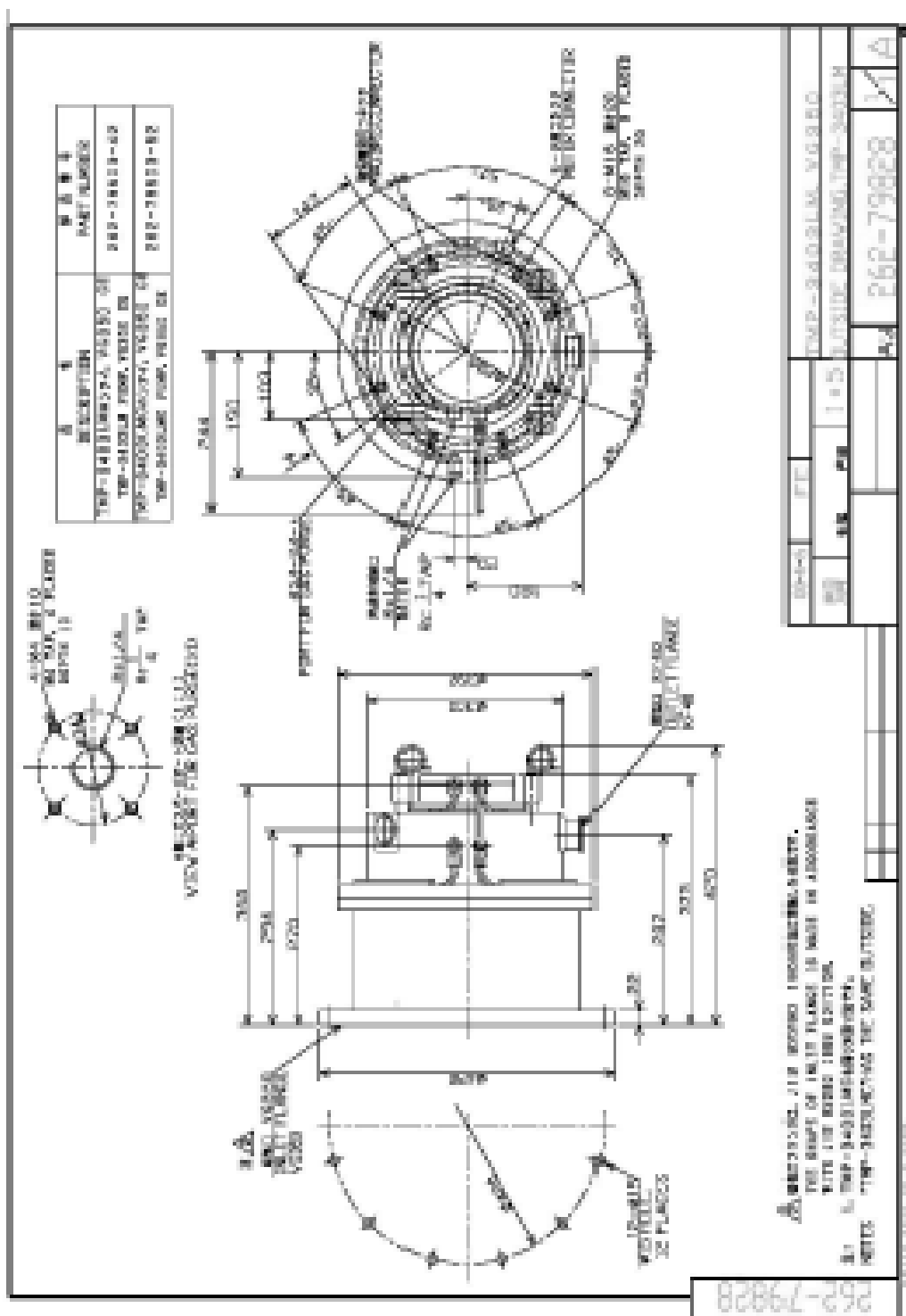
TURBO MOLECULAR PUMP SPECIFICATION

Turbo molecular pump	TMP-3403LMC	
Ultimate pressure (after baking)	10^{-7} Pa order (10^{-9} Torr)	
Maximum Argon gas throughput	2200 mL/min (Note 2)	
Maximum allowable inlet pressure (N ₂)	10 Pa	
Maximum allowable outlet pressure	270 Pa	
Pumping speed (Note 1)	nitrogen	3300 L/s
	Helium	3100 L/s
	hydrogen	2400 L/s
Compression ratio	nitrogen	1×10^9
	helium	1×10^5
	hydrogen	6×10^3
Rated speed	22020 rpm	
Start-up time	15 minutes or less	
Mounting position	In any direction	
Vibration level (by Shimadzu's method)	0.01 μ m or less (0-peak)	
Inlet flange	VG350, ISO320	
Admissible throughput of purge gas	20 to 30 mL/min	
Admissible pumping speed of backing vacuum pump in case of gas purge	1500 L/min or more	
Base area temperature	60 to 75 °C	
Base area temperature rise time	Within 60 minutes (time until the base area temperature reaches 60 °C when the ambient temperature is above 17 °C)	
Environmental Temperatures	Operation : 0 to 40 °C / Storage : -25 to 70 °C	
Admissible ambient magnetic field	Radial direction	3 mT
	Axial direction	15 mT
Water	Flow rate	2 to 4 L/min
	Pressure	0.2 to 0.5 MPa
	Temperature	5 to 25 °C
Mass	70 kg	

(Note 1) Without a protective net.

Pumping speed for N₂ is 3000 L/s with a protective net.

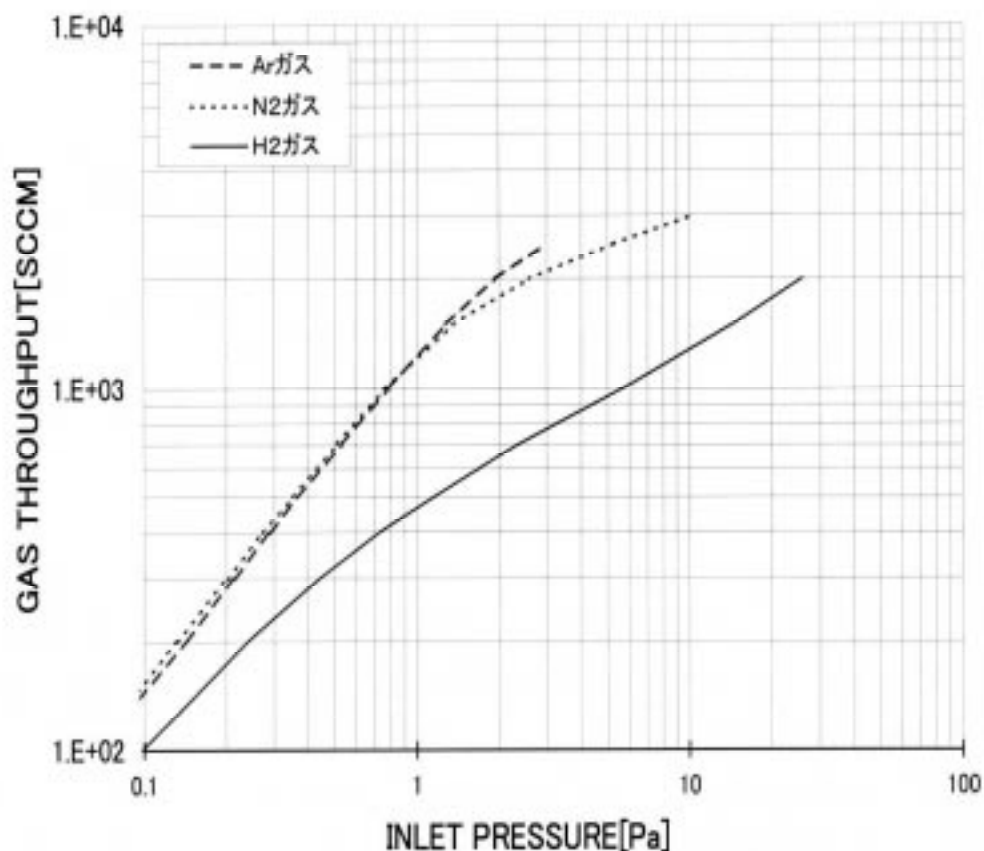
(Note 2) mL/min : volume flow rate at 0 °C, 1 atm. (equivalent to sccm)



GA12-2494

GAS THROUGHPUT OF TMP-3403LMC

with protective net,SCCM:mL/min at 0°C, 1atm
INLET FLANGE:VG300



GA12-2495

