

Turbo Molecular Pump Unit [YTP Series]

The YTP series is an pumping unit consists of turbo molecular pump UTM series that adopts [Pivot bearing and permanent magnetic bearing] and can evacuate from atmospheric pressure to high vacuum. The series has two type of models, SA type with automatic operation by operating start/ stop button and M type with manual operation.



Features

- ➤ Various Specifications are Available According to Application Standard pumping unit comes with oil rotary pump and dry scroll pump configuration is also available.
- > Clean High Vacuum
 Saturation vapor pressure of the fluorine oil used in turbo-molecular pump is on the order of 10⁻¹¹ Pa, 10⁻¹³ Torr, 10⁻¹³ mbar (at 20°C, 68°F) and it becomes boundless clean when selecting dry fore pump.
- ➤ Excellent Power Outage Countermeasures
 A solenoid fore valve is equipped as standard configuration, to prevent back flow and accident in case of black out.
- ➤ Roughing Evacuation Condition can be Monitored
 Pirani vacuum gauge equipped as standard accessory can monitor
 pressure during roughing evacuation.
- Pumping to the Ultra-High Vacuum is Possible Pumping to ultra-high vacuum range is possible with an optional bake jacket and by degassing a turbo pump. (*guaranteed performance within a pumping unit)

➤ Low Running Cost

Troublesome oil exchange and refill, and bearing replacements are unnecessary in the case of pivot bearing of turbo molecular pump and it reduces running cost.

Applications

- Evacuation system from atmospheric pressure to high vacuum
- Evacuation system of various experiment and R&D equipments
- Vacuum substitution of high-purity gas
- > Roughing evacuation system of UHV system
- > Evacuation system of analytical equipment



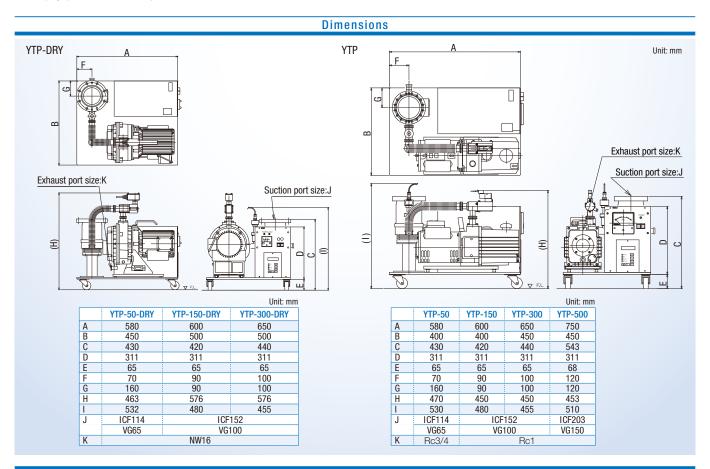


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			Specifi	cations		
Model			YTP-50M/SA (-DRY)	YTP-150M/SA (-DRY)	YTP-300M/SA (-DRY)	YTP-500M/SA (-DRY)
TMP suction port flange	ICF		114	15	152 203	
		/G	65	100 150		
TMP ultimate pressure *1 *2 *3	Pa		10 ⁻⁷	10-8		
	Torr		10 ⁻⁹	10 ⁻¹⁰		
	mbar		10 ⁻⁹	10 ⁻¹⁰		
TMP pumping speed *2 *4	L/s	N 2	50	190	300	550
		H ₂	40	160	260	500
Fore-pump pumping speed	L/m	50Hz	50 (90)	135 (250)	200 (250)	
		60Hz	60 (100)	162 (300)	240 (300)	
	CFM	50Hz	1.76 (3.18)	4.77 (8.83)	7.06 (8.83)	
		60Hz	2.12 (3.53)	5.72 (10.59)	8.48 (10.59)	
TMP back pressure and rough pressure monitoring			Pirani vacuum gauge (2.7×10^3 to 10^{-1} Pa, 2.0 to 10^{-3} Torr, 2.7 to 10^{-3} mbar)			
Fore valve			Solenoid valve for rotary pump automatic vent system (Solenoid valve)			
Input voltage			Single phase AC100V 50/60 Hz			
Input cable length			5m with 3P outlet			
Power capacity	kVA		1.3 (1.0)	1.8 (1.7)	2.1 (2.0)
Power consumption during stable operation	kVA		0.7 (0.5)	1.0 (0.9)	1.2	(1.2)
Weight	kg		Apporox.55 (Apporox.57)	Apporox.72 (Apporox.71)	Apporox.86 (Apporox.85)	Apporox.99 (Apporox.98)

^{*1} Value after baking out only TMP.

^{*4} Pumping speeds obtained with no protective metal net installed.



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➤ This catalog is subject to change without notice.

^{*2} Values obtained by using JVIS 005 standards or based on measurements using JVIS 005 standards.

^{*3} Order

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