

TYFB-3600 Turbo-Molecular Vacuum Pump



Introduction

Turbo molecular pump is a kind of mechanical vacuum pump, within which the gas molecular is brought out by the relative high speed rotation of the multi-step dynamic and static turbo vanes therefore to create an extra high vacuum range. The turbo-molecular pump features high speed of degassing quantity in the molecular flow area and high compressive ratio, consuming less energy than the diffuser pumps and no oil steam pollution.

TYFB-3600 turbo molecular pump is the one with maximum degassing speed domestically at present, its dynamic vanes' variable cross-section

shape features high intensity and lower in weight. Therefore, the pump's capability is more reliable and stable.

Our molecular pump has no special requirement for the gas it pumped, and has no memory trace. Because of high compressive ratio for the gas of high molecular weight, the pump can create very clean high vacuum and extra high vacuum without equipping cold trap and oil baffle.

TYFB-3600 turbo molecular pumps uses the precision ceramic bearings as its sustainer, with water cooling as its cooling method, so the cooling water temperature should be under 20 °C. The pump operation is stable after its rotor's dynamic equilibrium. The tri phase mouse cage type motor is used as pump driver. The cone hole axle automatically absorbs lubricant to lubricate the bearings, this method is very easy and reliable.

Advantages

- Extremely high reliability and long service life.
- Ultra high vacuum can be achieved even with high backing pressure levels.
- A long-life bearing mechanism (ceramic bearing) reduces maintenance costs.
- The pump can be used even in processes with the existence of reaction products and processes using corrosive gas.
- Thanks to the sophisticated rotor design, extremely high pumping speed, critical backing pressure and gas throughput values are achieved.

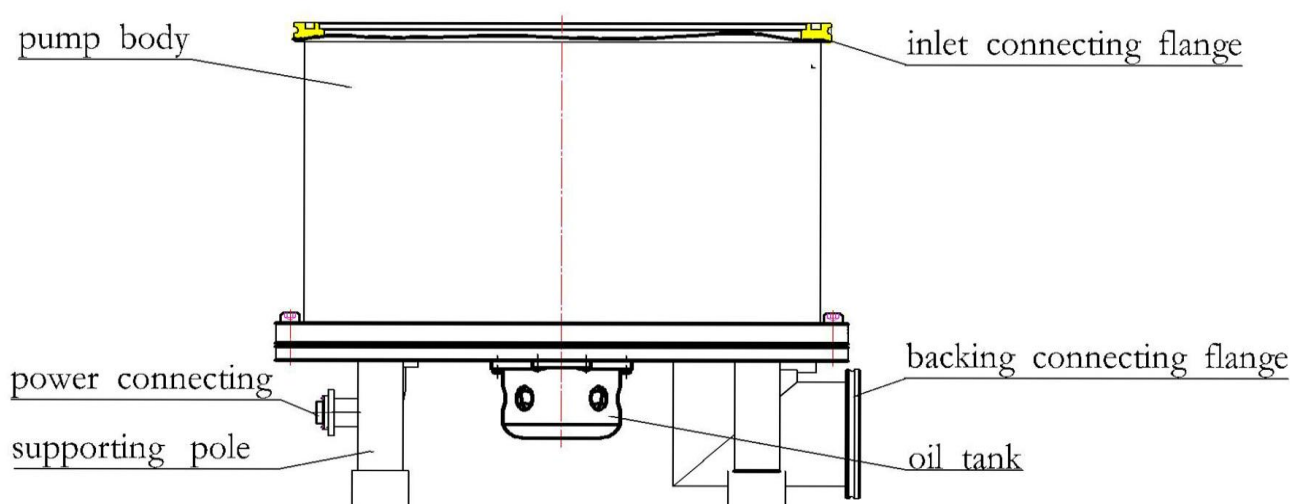
Specification

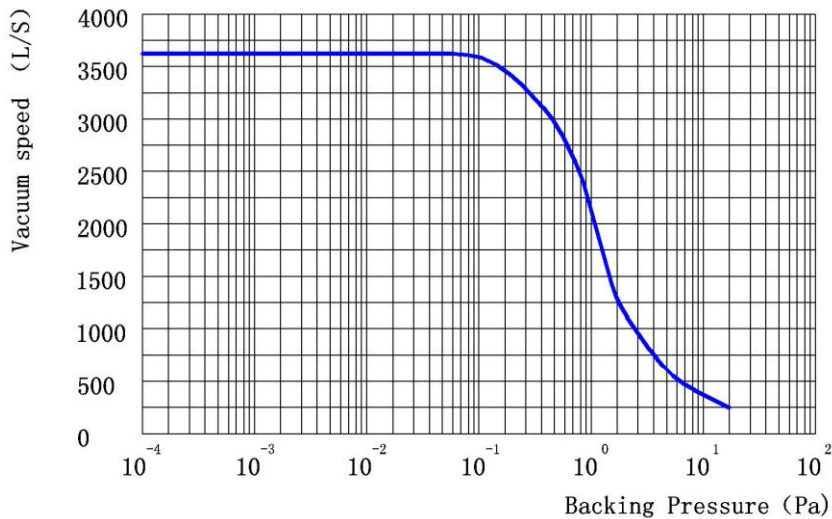
High vacuum flange		100 ISO-K
Backing pump flange		400 ISO-K
Pumping speed L/S		3600
Compressive ratio	N2	>109
	H2	>6X103
Ultimate pressure (Pa)		<2×10-8
Rotational speed (rpm)		12600
Vibration value		≤0.15μm
Bearing		Ceramic bearing
Running up time (min)		10
Running down time (min)		20
(Recommended) Backing pump (L/S)		30-70
Cooling mode		Water cooling
Cooling water temperature (°C)		<20
Cooling water flow quantity (L/min)		1
Pump body baking temperature (°C)		<80
Ambient temperature (°C)		5-40
Installation position		Vertical ±5°
Pump weight (kg)		≈100

Application

The TYFB-3600 turbo molecular pump can be used in the field of electronics, metallurgy, chemicals, science technological research and vacuum technology, etc.

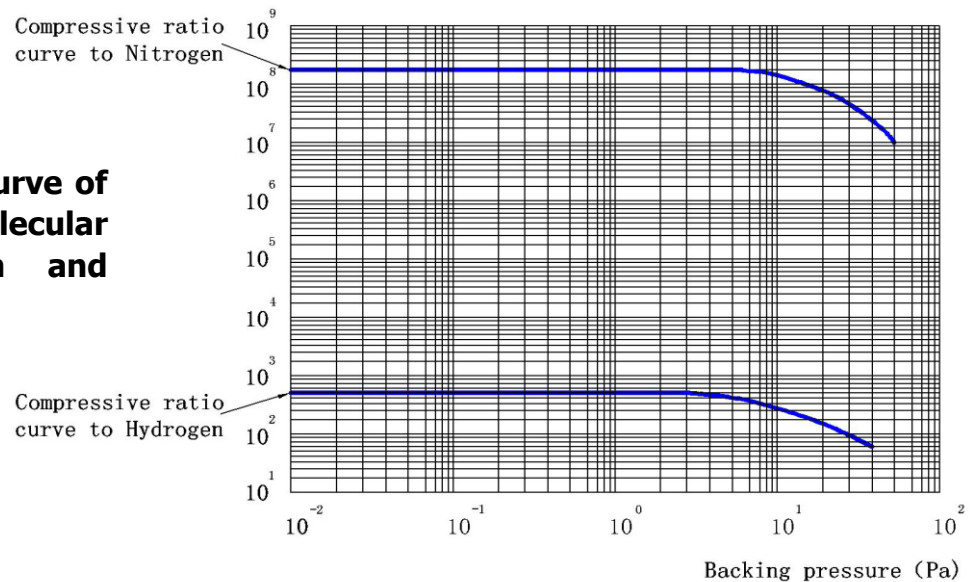
Structure Drawing of TYFB3600 Turbo Molecular Pump



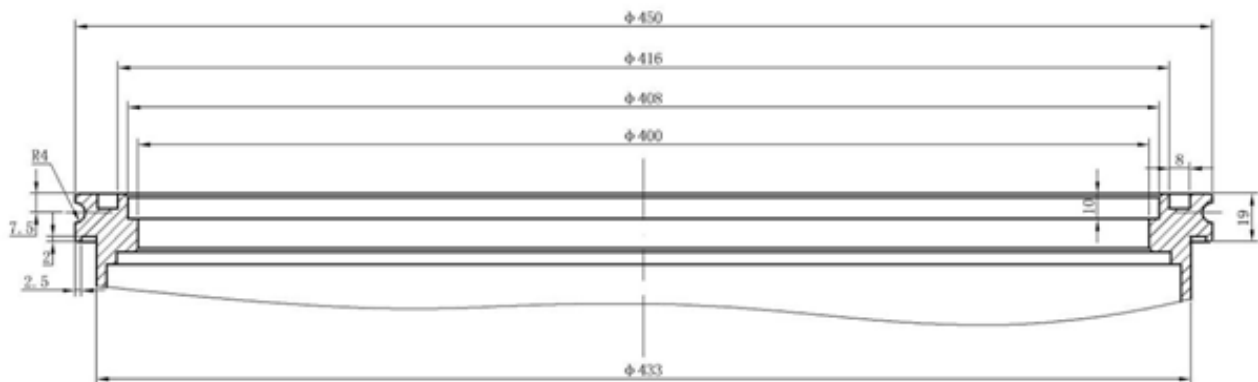


**Vacuum Speed Curve
of TYFB-3600 Turbo
Molecular Pump**

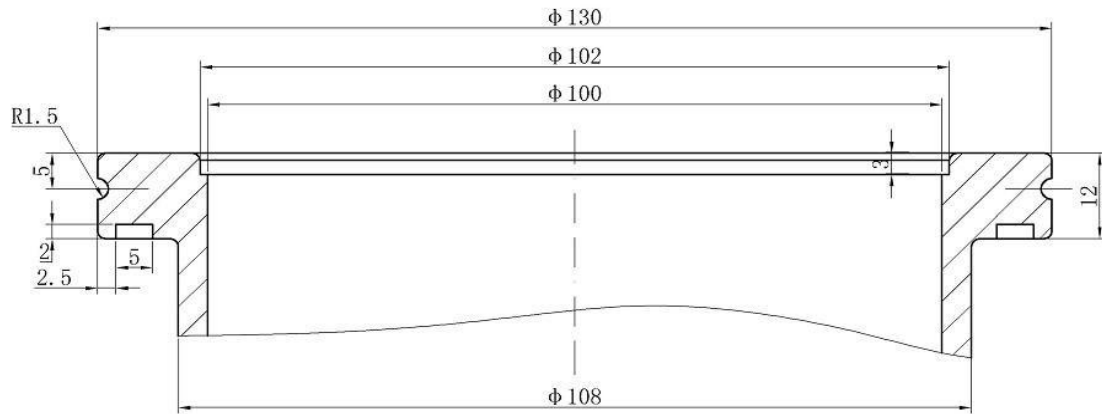
**Compressive Ratio Curve of
TYFB-3600 Turbo Molecular
Pump to Nitrogen and
Hydrogen**



**The size schematic of TYFB-3600 turbo molecular pump high vacuum connecting
with flange 400 ISO-K**



The size schematic of TYFB3600turbo molecular pump backing connecting with flange 100 ISO-K



The mounting size schematic of TYFB3600 turbo molecular pump

