

## KT & DPM series oil diffusion pump



### Characteristics of the pump:

- Strong pumping ability, Large pumping capacity from 480 to 130000 l/s are suitable. It has Observation window, oil filling port and discharge port, pump oil measurement device.
- Take stretching technology on manufacturing, reducing weld, increasing strength, reducing the discharge volume.
- Heater is equipped either with heating wire or electric heating plate, you can choose when you order it.

### Application:

- It is widely used in vacuum coating, vacuum furnace, electronics, chemical industry, aviation, aerospace, metallurgy, material, biological medicine, atomic energy, space exploration and other high-tech fields, and it has also been widely used in titanium sponge field with high praise.

## Rotary vane vacuum pump



### Characteristics of the pump:

- It can directly pump from the atmosphere;
- It can be used as low vacuum pump, also can be used as forestage pump while combining with other high vacuum pump.
- The series is widely used in the metallurgy, chemical industry and light industry, medicine, electron and semi-conductive industry;
- The pump can't be used to pump the gas with high oxygen, poisonous, explosive, or the gas will active with pump oil or have corrosive to the black metal. It also can be used as compressor or transmission pump.
- Widely used in vacuum coating machine

**Technical date:**

Model	2X-8	2X-15	2X-30	2X-70
Pumping speed(L/S)	8	15	30	70
Ultimate pressure (Pa)	6x10 <sup>-2</sup>			
Noisy	75	80	82	86
Non-jetting time of oil when pumping	1			
Temperature rise (Celsius degree)	40			
Motor power (KW)	1.1	1.5	3	5.5
Consumption of pump oil(L)	1.3	3	4.5	8
Rotation speed of main shaft	550	470	430	450
Cooling mode	water-cooling			
Consumption of cooling water(L/H)	480			

**Roots pump****Advantages:**

- No lubricating oil in the pump chamber to get high purity vacuum.
- Rotors processing with imported advanced equipment have the characteristic of good geometric symmetry, low noise and long service life.
- The whole pump is made of aluminum alloy for corrosion resistance and lose heat quickly, so as to prolong the life of the pump.
- Quick start, to reach a vacuum in a short time.
- Compact-sized, light weight and small footprint.

**Application:**

- Widely used in lighting, solar energy, electronics, semiconductors, vacuum drying, leak detection equipment, vacuum casting, vacuum melting, vacuum degassing, vacuum coating industry and vacuum distillation of the chemical pharmaceutical industry, etc.

**Technical date:**

PUMP MODEL		RTO.300S RTO/W.300S	RTO.600S RTO/W.600S	RTO.1200S RTO/W.1200S	RTO.2500F
Nominal Pumping Speed, L/s		300	600	1200	2500
Ultimate Pressure	Partial, Pa	0.06	0.06	0.06	0.06
	Total, Pa	0.6	0.6	0.6	0.6
Protecting Pressure Differential, Pa		4300	4300	2700	2700
Maximum Zero-flow Compressing Ratio		40	45	50	55
Motor Power, KW		3	5.5	7.5	18.5
Synchronized-rotating Speed, rpm		3000	3000	3000	3000
Inlet, mm		160	200	250	250
Outlet, mm		100	160	200	200
Noise Level, dB(A)		80	82	84	86
Temperature Rising, K	RTO	≤26	≤26	≤26	≤26
	RTO/W	≤52	≤52	≤52	-
Cooling Mode	RTO	Inner water cooling	Inner water cooling	Inner water cooling	Inner water cooling
	RTO/W	Air cooling	Air cooling	Air cooling	Air cooling

## Turbo molecular pump



### Characteristics of the pump:

- The molecular pump is a kind of mechanical vacuum pump with high speed rotor carrying gas molecules to obtain super high vacuum.
- It is composed of turbine molecular pump and disk tractor pump.
- At the same time, it has the characteristics of high pumping speed, high compression ratio of turbine molecular pump and tractor pump, extending the scope of compound molecular pump.

### Application:

- It is widely used in vacuum coating, vacuum furnace, electronics, chemical industry, aviation, aerospace, metallurgy, material, biological medicine, atomic energy, space exploration and other high-tech fields, and it has also been widely used in titanium sponge field with high praise

**Technical date:**

Technology parameter	TYFB-600K Compound Molecular pump		TYFB-1200K Compound Molecular pump		TYFB-1600K Compound Molecular pump	
High vacuum flange (mm)	150 CF	160 ISO-K	200 CF	200 ISO-K	250 CF	250 ISO-K
Foreline flange (mm)	40 KF		40 KF		50 KF	
Pumping speed (L/S)	600		1200		1600	
Compression ratio	N2	>109	>109		>109	
	N2	>8×10 <sup>3</sup>	>1×10 <sup>4</sup>		>1×10 <sup>4</sup>	
Ultimate pressure (Pa)	<8×10 <sup>-8</sup>	<5×10 <sup>-7</sup>	<8×10 <sup>-8</sup>	<5×10 <sup>-7</sup>	<8×10 <sup>-8</sup>	<5×10 <sup>-7</sup>
Motor revolutions (n/min)	24000		24000		21000	
Vib	≤0.1μm		≤0.1μm		≤0.15μm	
Starting time (min)	<5		<5		<5	
Recommend backing pump	4-8 L / S		8-15 L / S		15 L / S	
Type of cooling	Water cooling					
Water cooling temperature	≤25°C					
Water cooling water flow rate (L/min)	1					
Baking temperature of pump body	<120°C					
Pump inlet pressure (Pa)	7000					
The input voltage of the heater (v)	AC220					
Direction of motor mounting	Vertical±5°					