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Taixing Vacuum

TX series two-stage direct coupled rotary vane pump

Technological innovation.
scientific management. honest management

TX Series Two-Stage Direct-Drive Rotary Vane Pumps

TX系列双级直联旋片泵

coupled rotary vane pump
TX series two-stage direct



TX系列双级直联旋片泵

TX Series Two-Stage Direct-Drive Rotary Vane Pumps



■ 产品概述/ Products Introduction

The TX series pump is a rotary vane two-stage oil sealed vacuum pump with a lightweight structure, which has a wide range of applications in the refrigerator and air conditioning industry, light bulb and yellow light production, and other fields. Design and operational advantages:

Convenient operation: All essential connecting and control components are located at the top, and the oil window, oil filling and draining plugs, and labels are located at the front. The operation is simple and easy to match with the system and freeze dryer.

German quality assurance: All key components of the pump, such as rotary blades, complete sets of seals, and anti backflow valves, are imported from Germany; To ensure the requirements and confidence of global customers in German vacuum products, all product performance testing equipment is imported from Germany, and all vacuum pumps are required to meet German (or European, unified as German production standards) production standards before leaving the factory.

■ 产品技术特点/ Product Technical Features

- Wide range of work: It can operate and be used from one atmosphere to the ultimate pressure (partial pressure of 4×10^{-4} mbar, full pressure of 6×10^{-3} mbar).
- Good performance under low vacuum pressure: Good pumping speed can still be maintained under low vacuum pressure.
- Stable operation: low noise, low vibration.
- Good filtration effect: Built in outlet filter core, achieving 99.9% oil and gas filtration effect.
- Strong water vapor removal function: Super strong ability to remove water vapor.
- There are various cooling methods: air cooling, economical and convenient (water cooling can also be chosen).
- Preventing oil backflow: The air inlet is equipped with a check valve to prevent vacuum oil from flowing back when the pump stops.
- Compact structure: compact structure, small volume, space saving.
- Strong compatibility: It can be used with various accessories to meet the needs of different applications.

■ 产品应用领域/ Product application areas

(1) Research field

The TX series vacuum pump has a wide range of applications in scientific research, providing the necessary vacuum environment for various scientific experiments and environmental simulations, such as in high-energy physics experiments, materials science research, and other fields.

(2) Industrial production

- Chemical/Pharmaceutical: Meet the vacuum requirements of the chemical and pharmaceutical industries, such as vacuum extraction and maintenance operations in reaction vessels, drug extraction, and formulation production.
- Refrigeration industry: widely used in refrigeration equipment such as refrigerators and air conditioners, providing a stable and reliable vacuum environment for refrigeration systems, ensuring refrigeration efficiency and product quality.
- Vacuum coating: providing a high-purity vacuum environment for the coating process, ensuring the quality and performance of the coating.
- Vacuum drying: During the vacuum drying process, the TX series vacuum pump can effectively remove moisture, improve drying efficiency and quality.
- Freeze drying: It is a commonly used pump type in freeze drying systems, which can effectively extract moisture at low temperatures and maintain the original structure and properties of materials.

(3) Production field:

Suitable for the production of electric light source products such as light bulbs, yellow lights, energy-saving lamps, and picture tubes, providing a stable vacuum environment for the production process, ensuring the luminous efficiency and service life of electric light source products.

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■ 产品技术参数/ Performance Parameter

TECHNICAL INDEX	unit	TX-08D	TX-18D	TX-36D	TX-48D	TX-65D
Pumping speed (50Hz)	m³/h	8	18	36	48	65
Extraction speed (60Hz)	m³/h	9.6	21.6	43	57	78
Limit partial pressure of Guanqi Town	mbar	4×10^{-4}	4×10^{-4}	4×10^{-4}	4×10^{-4}	4×10^{-4}
Ultimate total pressure of Guanqi Town	mbar	3×10^{-3}	3×10^{-3}	3×10^{-3}	3×10^{-3}	3×10^{-3}
Ultimate total pressure of Kaiqi Town	mbar	6×10^{-3}	6×10^{-3}	6×10^{-3}	6×10^{-3}	6×10^{-3}
Allowable pressure of water vapor	mbar	30	20	40	30	30
Dimensions of intake and exhaust ports	DN(mm)	KF25	KF25	KF40	KF40	KF40
Noise (when the gas damper is closed/open)	dB(A)	54/56	55/58	58/60	58/60	58/60
Oil injection volume (maximum/minimum)	L	1.1/0.7	1.5/1	3.8/3.3	5/4.6	5/4.6
Weight (without oil injection)	kg	27	31	69	82	80
Working environment temperature (minimum/maximum)	°C	5/40	5/40	5/40	5/40	5/40
Motor power (single-phase), (220V, 50Hz)	W	550	750	-	-	-
Motor power (three-phase), (380V, 50Hz)	W	550	550	1500	1500	2200
Total length of pump (single-phase motor)	mm	471	560	-	-	-
Total length of pump (three-phase motor)	mm	500	540	661	765	765
order No		110010	110020	110030	110040	110050

Note:

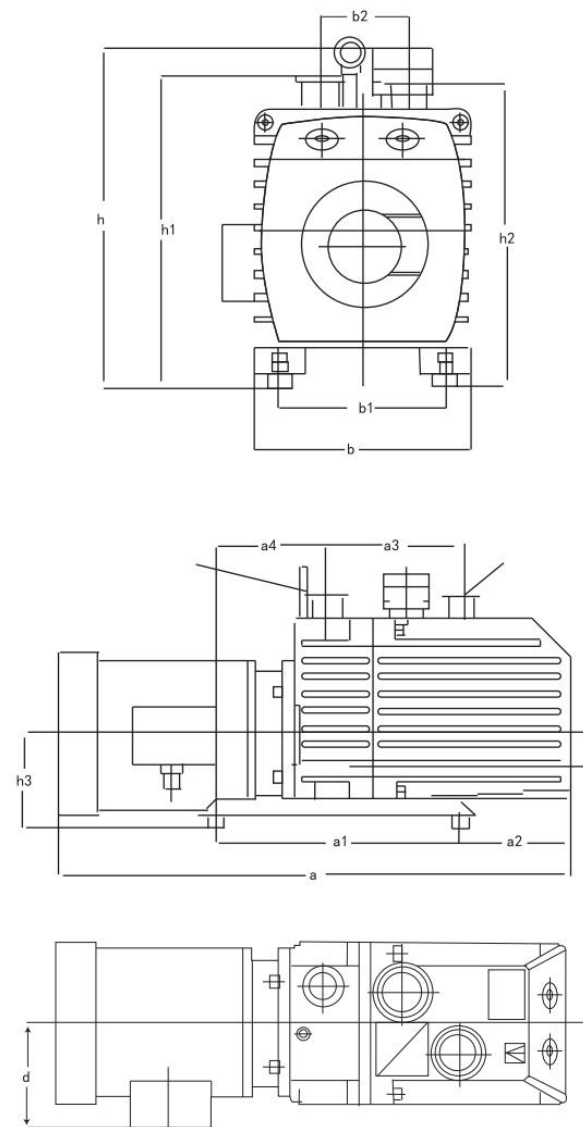
- 1) The noise is the flattened value of the electroacoustic sound at a distance of 1 meter and operating at 50Hz;
- 2) The total length of the pump may vary slightly depending on the motor;
- 3) The total length and size of the water-cooled pump have slight differences.

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■ 产品外形图及曲线 / Product shape diagram and curve



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产品外形图及曲线 / Product shape diagram and curve

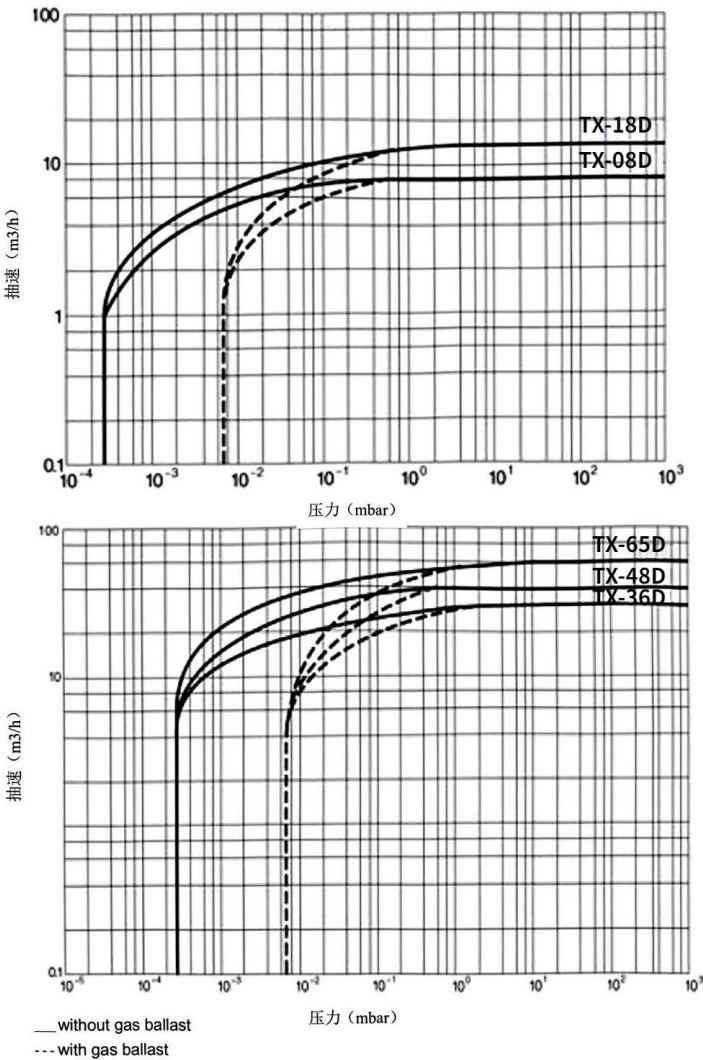
model	TX - 08D	TX - 18D	TX - 36D	TX - 48D	TX - 65D
Inlet size (DN1)	25KF	25KF	40KF	40KF	40KF
Exhaust port size (DN2)	25KF	25KF	40KF	40KF	40KF
Size a (mm)	500	540	661	765	765
Size a1 (mm)	260	260	395	395	395
Size a2 (mm)	75	117	123	198	198
Size a3 (mm)	146	146	224	224	224
Size A4 (mm)	118	118	185	185	185
Size b (mm)	173	173	242	242	242
Size b1 (mm)	133	133	192	192	192
Size b2 (mm)	71	71	90	90	90
Size h (mm)	272	272	370	370	370
Size h1 (mm)	243	243	358	358	358
Size h2 (mm)	246	246	362	362	362
Size h3 (mm)	100	100	166	166	166
Size d (mm)	160	160	153	153	153

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产品外形图及曲线 / Product shape diagram and curve

TX-08D~65D VACUUM PUMP SPEED CURVE



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■ 产品关键部件及品质管控 / Component and Quality Control

(1) Key components

1. Rotary blade: Using German imported components to ensure stable operation and high-performance pumping capacity of the pump.
2. Complete set of seals: German imported seals ensure vacuum degree and prevent liquid leakage.
3. Anti backflow oil valve: German imported anti backflow oil valve to prevent reverse flow of vacuum oil.

(2) Quality control

1. Performance testing equipment: Imported performance testing equipment from Germany to ensure that product performance meets German production standards.
2. Production standards: All vacuum pumps must strictly meet German production standards before leaving the factory.

■ 真空泵橡胶密封件 / Vacuum pump rubber seals



(1) Materials and Sources

The rubber sealing materials such as O-rings, rubber feet, rubber plugs, elastomers, shaft seals, auxiliary exhaust valves, and pneumatic valve caps are imported from Germany.

(2) Application

Applied to TX two-stage direct coupled rotary vane vacuum pump and Leybold TRIVAC C A series vacuum pump; It has many characteristics that match the TX series vacuum pump, such as good pumping performance, water vapor resistance, super strong water vapor removal function, equipped with check valves to prevent oil backflow, compact structure to save space, and can be matched with accessories to meet different needs. The pumping speed range is $8\text{m}^3/\text{h}$ - $65\text{m}^3/\text{h}$, and the ultimate partial pressure is 10^{-4} mbar c/s.