

# Oil-Sealed Rotary Vacuum Pumps **GCD-136X**

GCD Series



## Outline

This is a rotary blade type vacuum pump that uses lubricating oil. A vacuum pump with low noise, low vibration and high reliability. GCD series is a highly corrosion resistant type.

## Features and Cautions on use

- GCD Series, direct drive, oil rotary vacuum pump is corrosion resistant for toxic and corrosive gases which is ideal for chemical, pharmaceutical applications. Surface of gas contacted parts are coated with hard plating. Three different size available from 50L to 200L/min.

## Specification

Item	Unit	50Hz	60Hz
Actual Pumping Speed	L/min	135	162
Ultimate Pressure	Pa	0.67	
Ultimate Pressure (G.V. open)	Pa	6.7	
Motor Output	W	400	
Recommended oil		SO-M	
Oil capacity	mL	1,000	
Weight	kg	25.4	
Inlet, Outlet port diameter	mm	KF-25, G1	
Ambient temperature	°C	7~40	
Overall dimensions	mm	170(W) × 493(L) × 241.1(H)	
RoHS applied		●	

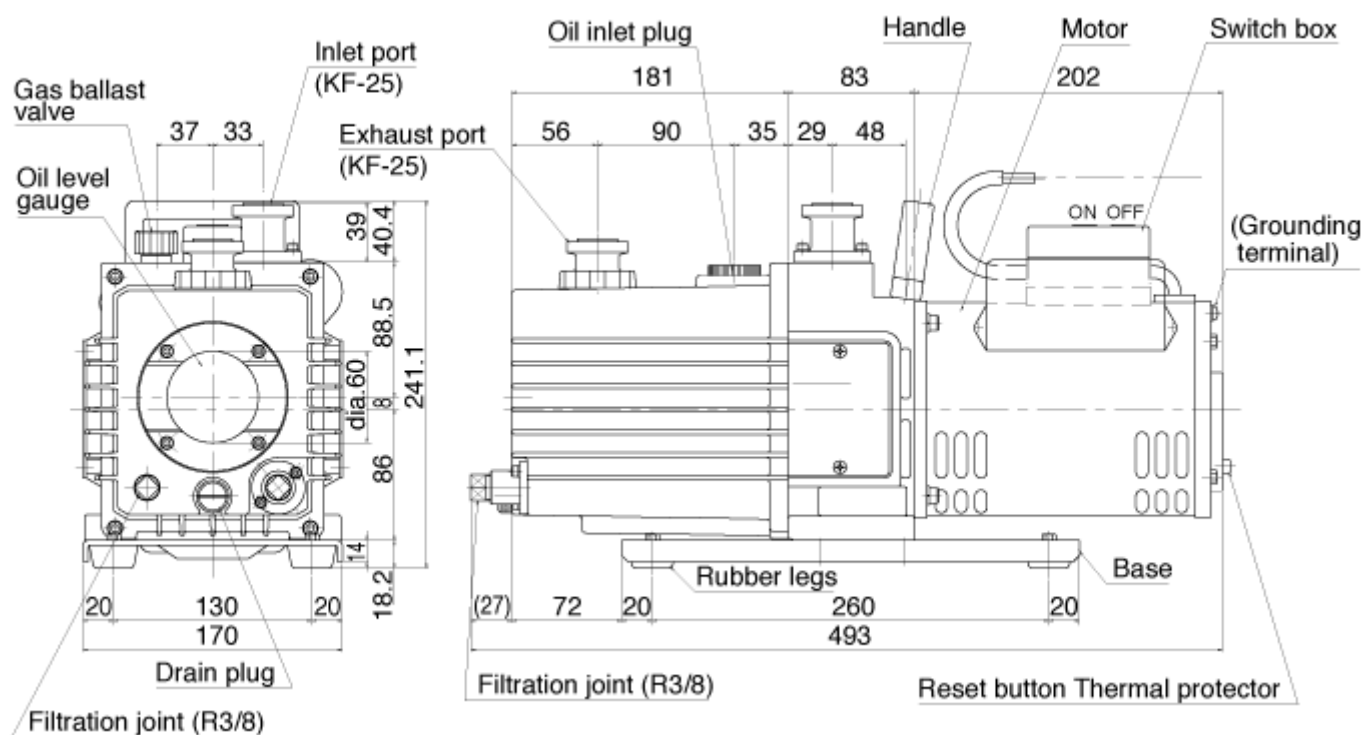
Ultimate pressure is the value measured by Pirani gauge. When measured with a Mcleod vacuum gauge, the value will be an order of magnitude lower for vacuum pumps with an ultimate pressure of 1.3Pa or less.

## Power Supply/Voltage

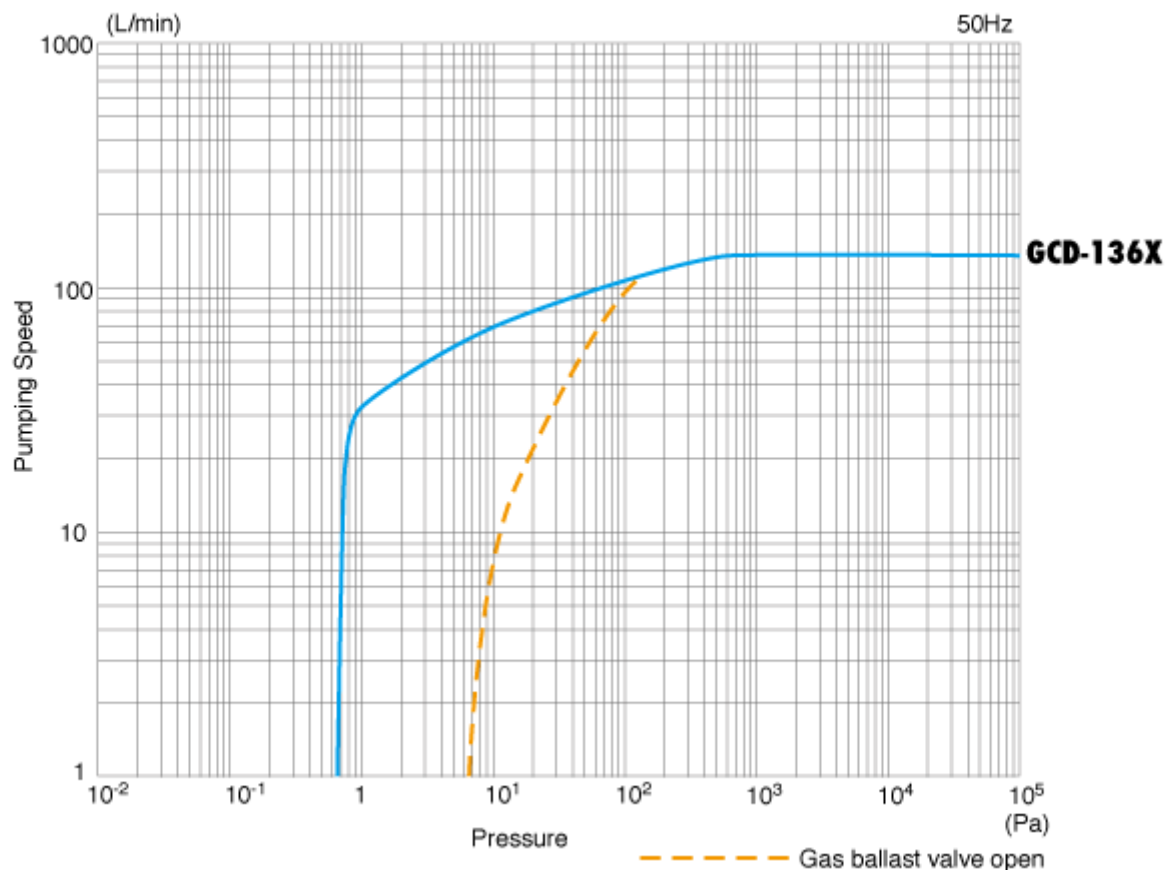
Voltage	Certificate	Remarks
Single phase, 100V	—	
Single phase, 200V	—	
Single phase, 220V	—	
Three phase, 200V	—	

■TUV Certification: A high-quality product that complies with European standards as assessed by an international third party that conducts product safety testing and certification.

## Outline Drawing



# Pumping Speed Curves



## Remarks

- Oil is deteriorated with operating, and becomes the factor of performance shortage. A decrease and the dirt of oil are confirmed, and please regularly add and replace it.
- This pump has an anti-backstreaming valve function that is effective to prevent the oil back streaming when the pump stops.
- The function is not 100% guaranteed.
- If operation is performed at high pressure, oil mist is generated at the exhaust side.
- The influence might go out to the pump life according to the characteristic and the amount of the evacuated gas. Especially, longevity is remarkably shortened, and corrosion resistance might not be able to be demonstrated about ammonia and sulfuric acid.
- Fluoride rubber material is used for the internal parts of a pump.
- There are some for which the chemical resistance of Fluoride rubber material is not suitable. Especially, be careful of the following chemical. Ammonia, Acetone, Ethylene oxide, Ethylene diamine, Zinc acetate, Amyl acetate, Aluminum acetate, Isopropyl acetate, Ethyl acetate, Lead acetate, Calcium acetate, Cellosolve Acetate, Nickel acetate, Butyl acetate, Propyl acetate, Methyl acetate, Nitroethane, Nitropropane, Nitromethane, Freon.
- There is a risk of explosion. Never block the outlet or operate the pump with equipment mounted at the outlet side that blocks the passage of gas. Otherwise, the internal pump pressure increases causing the pump to explode, the oil level gauge to protrude or the motor to be overloaded.
- It is a pump only in the room. Please do not set it up in the place, that rain and water splash, and outdoors.

## Applied optional part items

No.	Category name	Series	Name
1	Adapter		KF25 Adapter (M20 Female)
2	Adapter	Adapter	50mm sq Adapter (M20 Female)
3	Exhaust Pipe	KF Exhaust Pipe	KF25 exhaust pipe (KF25×G1)
4	Exhaust Pipe	Hose Port Exhaust Pipe	Hose port exhaust pipe (dia.27×G1)
5	Maintenance Kit	Maintenance Kit Series	Maintenance Kit A for GCD-136X
6	Maintenance Kit	Maintenance Kit Series	Maintenance Kit B for GCD-136X
7	Fore-line Trap		OFI-200C

8	Fore-line Trap		OFI-200V
9	Oil-mist Separator		OMC-200
10	Vacuum Pump Oil	SOM Series	SO-M 18L
11	Vacuum Pump Oil	SOM Series	SO-M 1L
12	Vacuum Pump Oil	SOM Series	SO-M 4L
13	Suction Pipe	R1/4 Suction Port	A-type suction pipe (R1/4-L20 Male ×M20)
14	Suction Pipe	R1/4 Suction Port	B-type suction pipe (R1/4 Female ×M20)
15	Suction Pipe	R1/4 Suction Port	C-type suction pipe (R1/4-L10 Male × M20)
16	Suction Pipe	KF25 Suction Port	KF25 suction pipe (KF25×M20)
17	Suction Pipe	KF25 Suction Port	KF25 suction pipe(KF25×50mm sq)
18	Suction Pipe	Hose Port Suction Pipe	Hose port suction pipe (dia.12×M20)
19	Suction Pipe	Hose Port Suction Pipe	Hose port suction pipe (dia.15×M20)
20	Suction Pipe	Hose Port Suction Pipe	Hose port suction pipe (dia.18×M20)
21	Suction Pipe	Hose Port Suction Pipe	Hose port suction pipe (dia.22×M20)
22	Suction Pipe	Hose Port Suction Pipe	Hose port suction pipe (dia.27×50mm sq)
23	Suction Pipe	Hose Port Suction Pipe	Hose port suction pipe (dia.8 × M20)

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