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forward to becoming the first specialized
company in the vacuum industry.

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KODIVAC VACUUM PRODUCTS

Cumulative High Technology Your Technological Partner For
The New Millennium



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ROTARY PUMP

Oil Rotary Vane Pump는 Pump Housing, Motor, Pump Cylinder, Rotor, Vane 등의 부품으로 구성되어 있으며, 편심된 회전축의 Rotor에 장착된 Vane에 의해 기체입자들이 압축, 배기 되는 반복운동으로 챔버로부터 99%이상의 기체를 제거할 수 있는 Pump입니다.

The Oil Rotary Vane Pump is the preferred choice for your clean, high-vacuum requirements. The vanes of the rotor turn on an eccentric axle compress and discharge gas molecules, eliminating over 99% of gases from the chamber by repeating such movement. Adoption of double stages drastically enhances ultimate vacuum condition.

Introduction

KODIVAC의 GHP Series는 도달진공도를 높이고 Pumping 효율을 높이기 위해 Double Stage를 채택하였으며, Motor Directly Slide Vane Type으로 뛰어난 품질과 긴 수명으로 높은 신뢰성을 가지고 있습니다.

이 GHP-Series는 강제유할 방식으로 순환 Pump와 윤활유의 흐름을 제어하는 분배기를 탑재하여 높은 흡입압의 운전에 있어 문제가 되었던 내구성을 실현하였습니다. 그리고 온도 감지기능을 가진 Oil Level Gauge를 장착하여 색의 변화에 대해 Pump의 과열을 쉽게 확인할 수 있도록 설계 하였습니다.

KODIVAC's GHP-Series rotary vacuum pumps are sliding vane type double stage pumps directly connected to the motors, offering reliable vacuum pumping performance due to excellent quality and long service life.

These GHP-Series offer high durability, (as has been considered as a matter of concern) in operation at high suction pressure, by dint of being mounted with a pump for compulsory circulation of lubrication oil and a dispenser for control of the flow of lubrication oil.

The oil level gauge designed to have temperature-sensing function, gives warning indications on is overheating of the pump by changing colors.

■ 특징

- 저소음 : 정밀가공 기술에 의한 저소음, 저진동의 펌프입니다.
- 뛰어난 호환성 : 전부품의 호환성이 있으며 위치결정형 평형핀의 체결, 각 Stator 등의 접속은 전부 O-Ring Seal로 되어 있으므로 분해조립이 용이한 구조입니다.
- 가스 밸러스트밸브 부착 : 가스 밸러스트밸브를 갖추고 있으므로, 수증기, 응축가스 등을 효과적으로 제거합니다.
- 분진 무발생 : 직결구동이므로 벨트 마모에 의한 분진 발생이 없으므로 깨끗한 환경을 유지합니다.
- 소형 경량 : 직결구동이므로, 종래에 비하여 소형 경량입니다.

■ Features

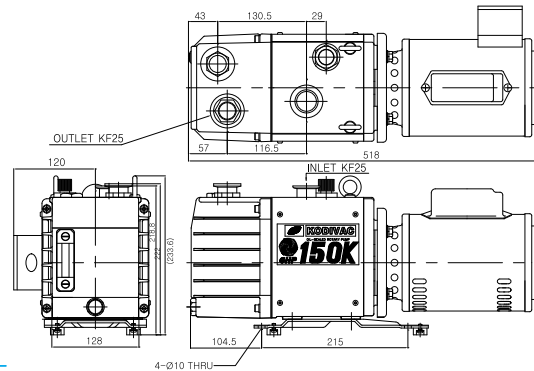
- Low noise levels : This pump operates with low noise and low vibration by using technology.
- Easy disassembling and reassembling : All the parts and components of the systems have interchangeable compatibility. Securing of the location-settling parallel pins and connecting of stators are treated with O-Ring seal, making it possible to disassemble and reassemble with ease.
- Equipped with gas ballast valve : The Series are equipped with gas ballast valve, which effectively eliminates oil vapors and condensed gases.
- Prevention of oil leakage : The Series, designed to have a double seal structure with an oil berth installed in the intermediate position, minimize stress difference between both sides of the oil seal, preventing for no oil leaks from the oil seal.
- Driven by direct connection : The Series are small and light, compared to other systems.

OIL ROTARY VANE PUMP ▶ GHP-150K/240K

OIL ROTARY VANE PUMP ▶ GHP-340K/550K

GHP-150K

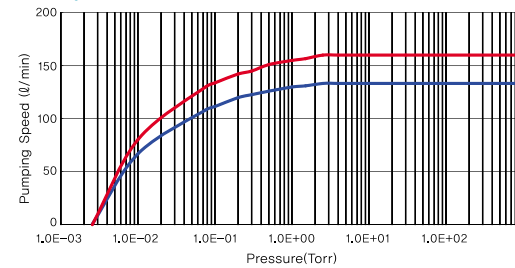
Design / Outline Drawing(mm)



Technical Specification

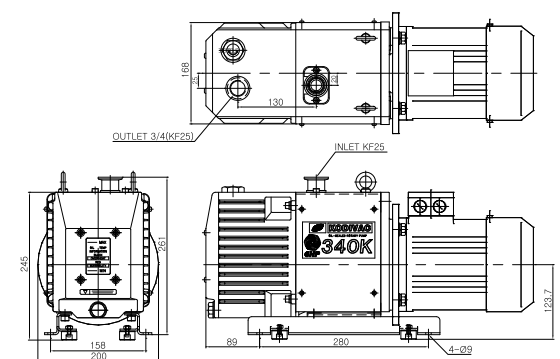
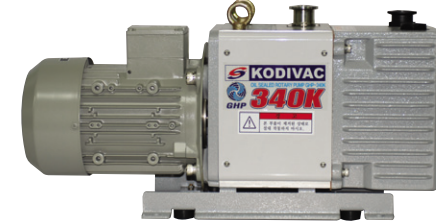
Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	150	180
Effective pumping speed	ℓ / min	130	160
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	1ϕ (단상) kW	0.65	
	3ϕ (삼상) kW	0.4	
Oil capacity	Max ℓ	1.2	
	Min ℓ	0.8	
Cooling		Air cooling	
Inlet connection		NW-25	
Outlet connection		NW-25	
Weight	kg	30	
Oil		MR-200/VAC-300	

Speed Curve



GHP-340K

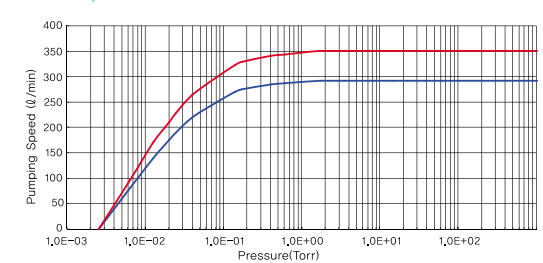
Design / Outline Drawing(mm)



Technical Specification

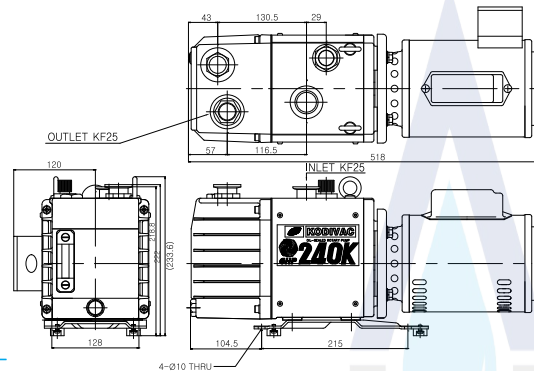
Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	340	408
Effective pumping speed	ℓ / min	290	350
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	1ϕ (단상) kW	0.75	
	3ϕ (삼상) kW	0.75	
Oil capacity	Max ℓ	1.7	
	Min ℓ	1.1	
Cooling		Air cooling	
Inlet connection		NW-25	
Outlet connection		NW-25	
Weight	kg	42	
Oil		MR-200/VAC-300	

Speed Curve



GHP-240K

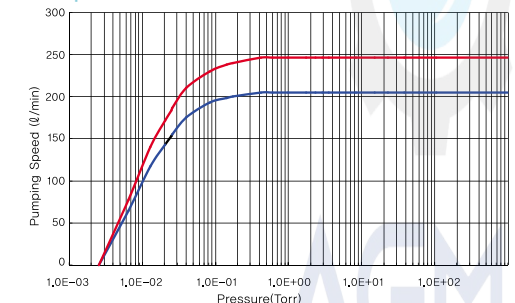
Design / Outline Drawing(mm)



Technical Specification

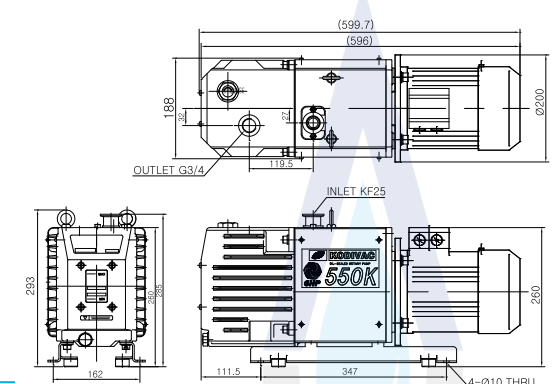
Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	240	290
Effective pumping speed	ℓ / min	205	245
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	1ϕ (단상) kW	0.65	
	3ϕ (삼상) kW	0.4	
Oil capacity	Max ℓ	1.1	
	Min ℓ	0.8	
Cooling		Air cooling	
Inlet connection		NW-25	
Outlet connection		NW-25	
Weight	kg	31	
Oil		MR-200/VAC-300	

Speed Curve



GHP-550K

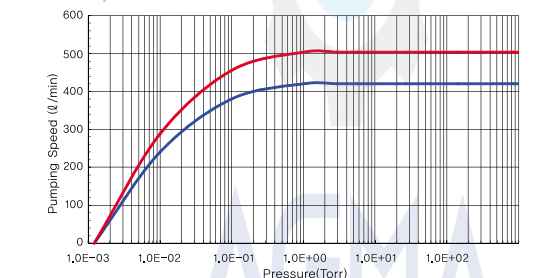
Design / Outline Drawing(mm)



Technical Specification

Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	550	650
Effective pumping speed	ℓ / min	420	500
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3ϕ kW	0.75	
Oil capacity	Max ℓ	2.0	
	Min ℓ	1.5	
Cooling		Air cooling	
Inlet connection		NW-25	
Outlet connection		NW-25	
Weight	kg	48	
Oil		MR-200/VAC-300	

Speed Curve



Remark) The real product can be different from photograph and product specification can be changed.
실제 제품은 사진과 다를 수 있으며 제품사양은 변경될 수도 있습니다.

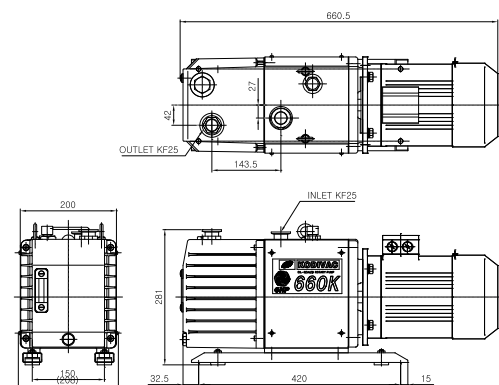
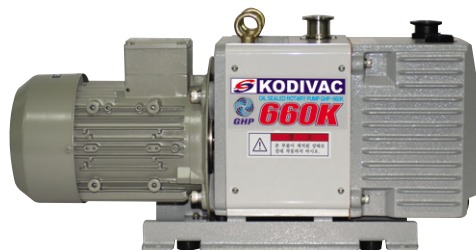
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OIL ROTARY VANE PUMP

GHP-660K/800K

GHP-660K

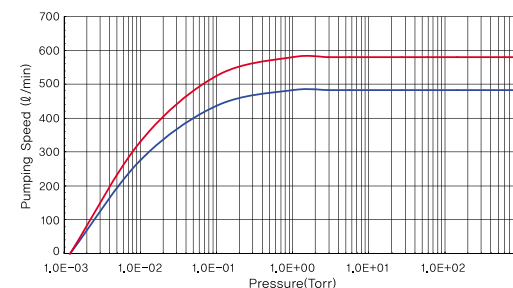
Design / Outline Drawing(mm)



Technical Specification

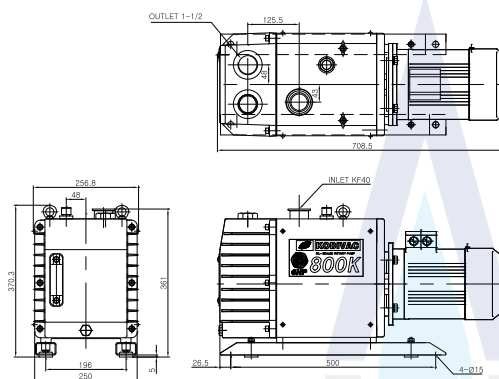
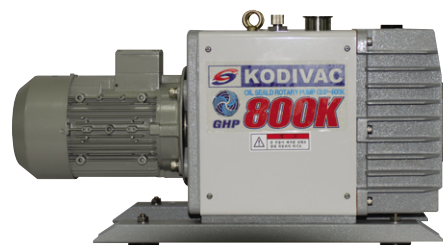
Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	550	660
Effective pumping speed	ℓ / min	480	580
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3Φ kW	1.5	
Oil capacity	Max ℓ	2.6	
	Min ℓ	2	
Cooling		Air cooling	
Inlet connection		NW-25	
Outlet connection		NW-25	
Weight	kg	52	
Oil		MR-200/VAC-300	

Speed Curve



GHP-800K

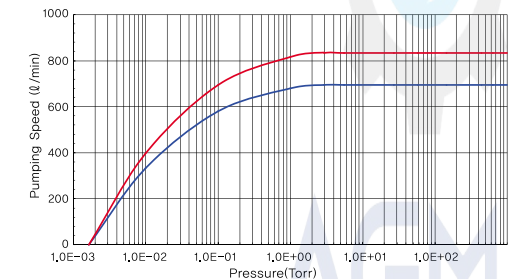
Design / Outline Drawing(mm)



Technical Specification

Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	800	960
Effective pumping speed	ℓ / min	700	830
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3Φ kW	1.5	
Oil capacity	Max ℓ	4	
	Min ℓ	3	
Cooling		Air cooling	
Inlet connection		NW-40	
Outlet connection		Rc1-1/2(NW-40)	
Weight	kg	60	
Oil		MR-200/VAC-300	

Speed Curve



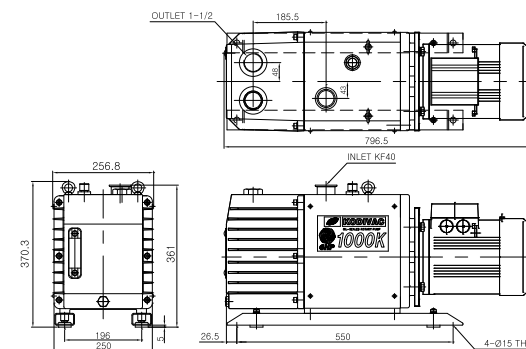
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OIL ROTARY VANE PUMP

GHP-1000K/1300K

GHP-1000K

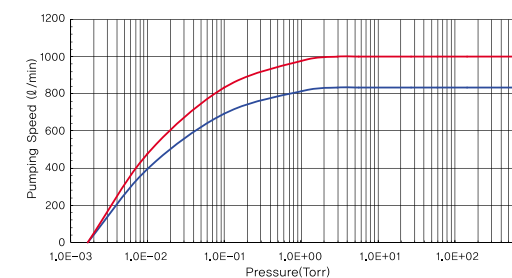
Design / Outline Drawing(mm)



Technical Specification

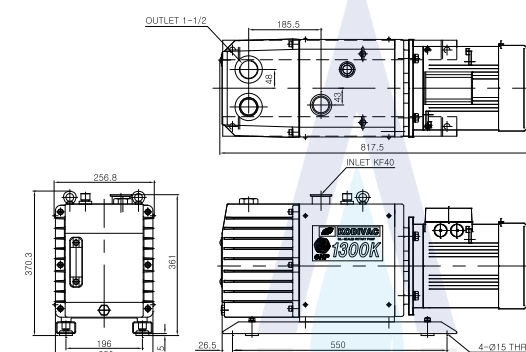
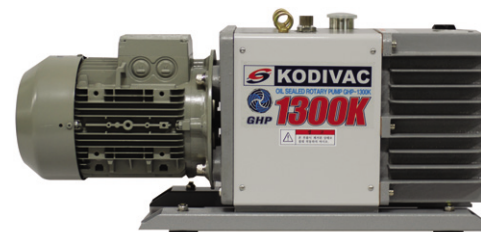
Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	1000	1200
Effective pumping speed	ℓ / min	830	1000
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3Φ kW	2.2	
Oil capacity	Max ℓ	6	
	Min ℓ	3.5	
Cooling		Air cooling	
Inlet connection		NW-40	
Outlet connection		Rc1-1/2(NW-40)	
Weight	Kg	85	
Oil		MR-200/VAC-300	

Speed Curve



GHP-1300K

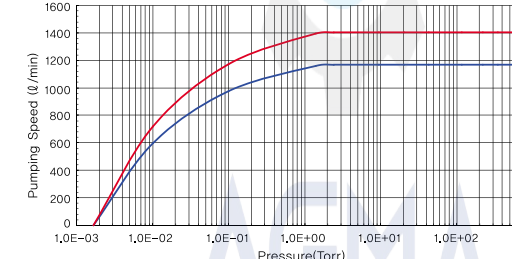
Design / Outline Drawing(mm)



Technical Specification

Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	1300	1600
Effective pumping speed	ℓ / min	1170	1400
Ultimate vacuum	Gas V/V close Torr(Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr(Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3Φ kW	3.7	
Oil capacity	Max ℓ	6	
	Min ℓ	3.5	
Cooling		Air cooling	
Inlet connection		NW-40	
Outlet connection		Rc1-1/2(NW-40)	
Weight	kg	95	
Oil		MR-200/VAC-300	

Speed Curve



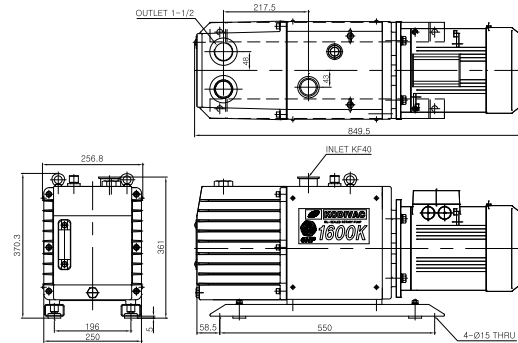
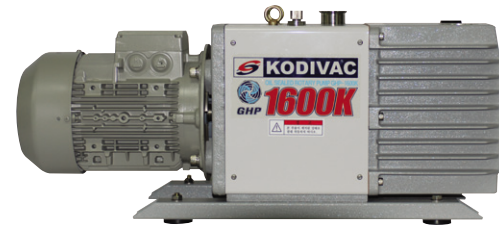
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OIL ROTARY VANE PUMP ▶ GHP-1600K/3500D

OIL ROTARY VANE PUMP ▶ GHP-6000D

GHP-1600K

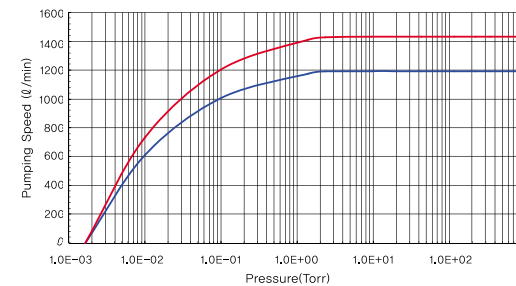
Design / Outline Drawing(mm)



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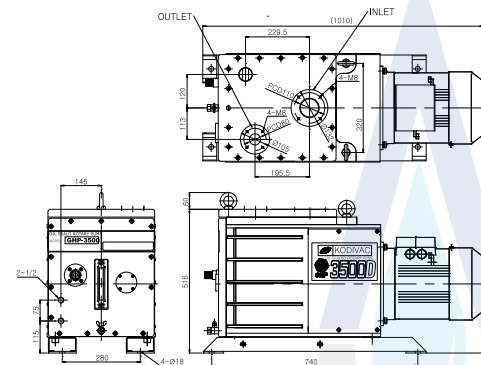
Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	1600	1900
Effective pumping speed	ℓ / min	1190	1430
Ultimate vacuum	Gas V/V close Torr (Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr (Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3Φ kW	3.7	
Oil capacity	Max ℓ	6.5	
	Min ℓ	5.5	
Cooling		Air cooling	
Inlet connection		NW-40	
Outlet connection		Rc1-1/2(NW-40)	
Weight		106 kg	
Oil		MR-200/VAC-300	

Speed Curve



GHP-3500D (Double Stage)

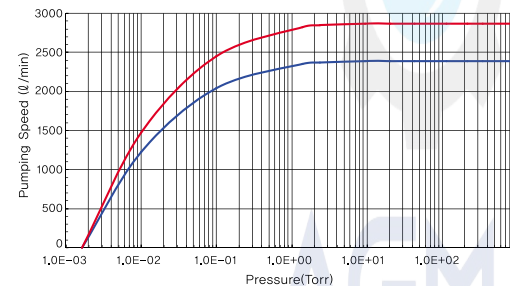
Design / Outline Drawing(mm)



Technical Specification

Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	2900	3500
Effective pumping speed	ℓ / min	2380	2860
Ultimate vacuum	Gas V/V close Torr (Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr (Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3Φ kW	5.5	
Oil capacity	Max ℓ	25	
	Min ℓ	15	
Cooling		Water cooling	
Cooling water flow		ℓ / min 5 (at 20°C)	
Inlet connection		ISO 63	
Outlet connection		ISO 40	
Weight		210 kg	
Oil		MR-200/VAC-300	

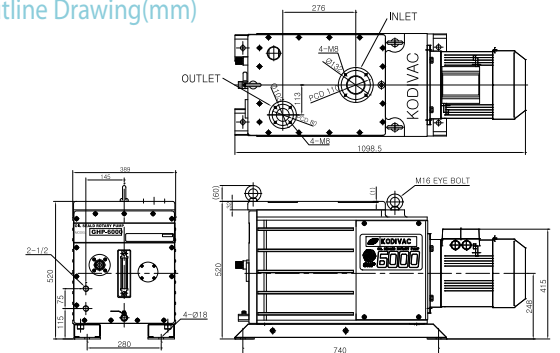
Speed Curve



Remark) The real product can be different from photograph and product specification can be changed.
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GHP-6000D (Double Stage)

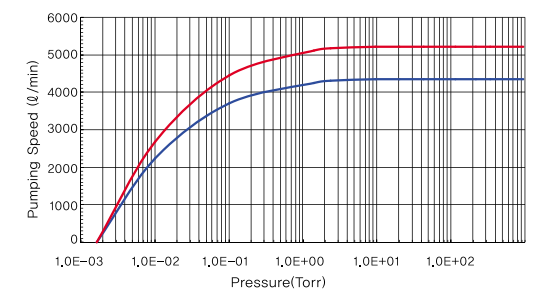
Design / Outline Drawing(mm)



Technical Specification

Item	Unit	50Hz	60Hz
Designed pumping speed	ℓ / min	4600	5800
Effective pumping speed	ℓ / min	4350	5220
Ultimate vacuum	Gas V/V close Torr (Pa)	$1.0 \times 10^{-3} (1.3 \times 10^{-1})$	
	Gas V/V open Torr (Pa)	$2.2 \times 10^{-2} (3)$	
Motor power	3Φ kW	7.5	
Oil capacity	Max ℓ	28	
	Min ℓ	18	
Cooling		Water cooling	
Cooling water flow		ℓ / min 7.5 (at 20°C)	
Inlet connection		ISO 63	
Outlet connection		ISO 40	
Weight		242 kg	
Oil		MR-200/VAC-300	

Speed Curve

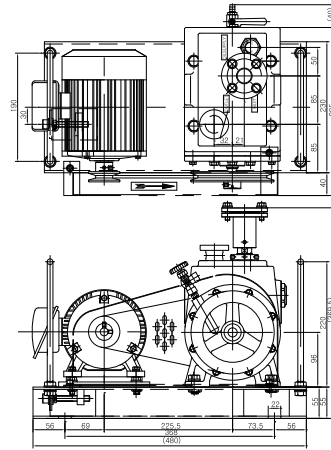


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BELT-DRIVEN ROTARY VANE PUMP ▶ GRP-180

GRP-180

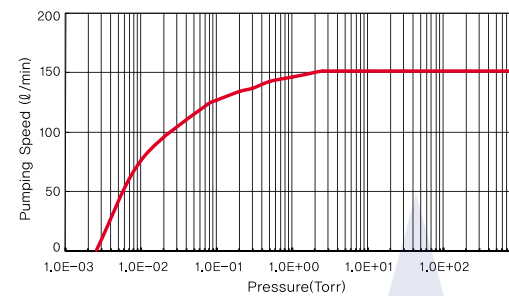
Design / Outline Drawing(mm)



Technical Specification

Item	Unit	60Hz
Designed Pumping Speed	ℓ / min	180
Effective Pumping Speed	ℓ / min	150
Ultimate vacuum	Gas V/V close	Torr (Pa) 3.0×10 ⁻³ (4.0×10 ⁻¹)
Motor power	3Φ	kW 0.4
Oil capacity	ℓ	2.5
Cooling		Air cooling
Inlet connection		Φ26
Outlet connection		G3/4
Weight	kg	35Kg
Oil		ULTRA-200

Speed Curve



Feature

- 특징
- 저소음, 저진동
- 연속운동 가능
- 우수한 성능
- Ultimate Pressure, 배기속도 특성이 매우 우수
- Gas Ballast 부착
- 수증기, 응축 Gas등을 효과적으로 제거

■ Features

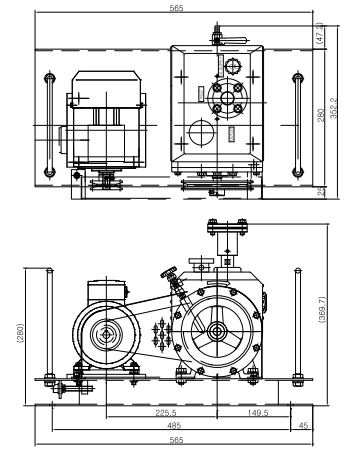
- Low noise, Low Vibration
- Continuous Operating
- Excellent Performance
- Low Ultimate Pressure, High Pumping Speed
- Gas Ballast
- Eliminate of Vapor and Condensed Gas

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BELT-DRIVEN ROTARY VANE PUMP ▶ GRP-300N

GRP-300N

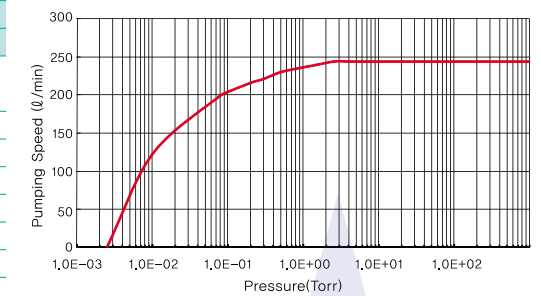
Design / Outline Drawing(mm)



Technical Specification

Item	Unit	60Hz
Designed Pumping Speed	ℓ / min	300
Effective Pumping Speed	ℓ / min	245
Ultimate vacuum	Gas V/V close	Torr (Pa) 3.0×10 ⁻³ (4.0×10 ⁻¹)
Motor power	3Φ	kW 0.4
Oil capacity	ℓ	3.2
Cooling		Air cooling
Inlet connection		Φ26
Outlet connection		G3/4
Weight	kg	40Kg
Oil		ULTRA-200

Speed Curve



Feature

- 특징
- 저소음, 저진동
- 연속운동 가능
- 우수한 성능
- Ultimate Pressure, 배기속도 특성이 매우 우수
- Gas Ballast 부착
- 수증기, 응축 Gas등을 효과적으로 제거

■ Features

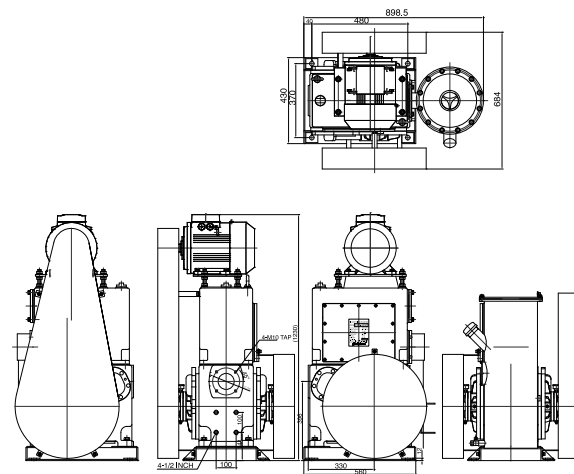
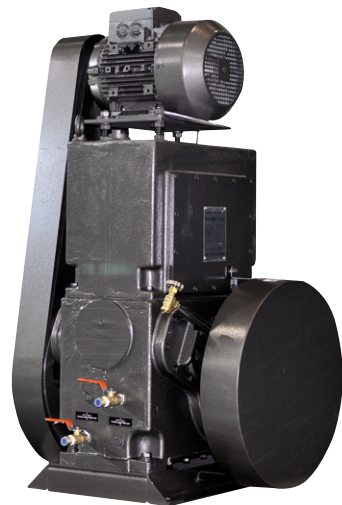
- Low noise, Low Vibration
- Continuous Operating
- Excellent Performance
- Low Ultimate Pressure, High Pumping Speed
- Gas Ballast
- Eliminate of Vapor and Condensed Gas

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PISTON ROTARY PUMP ▶ KRP-4500

KRP-4500

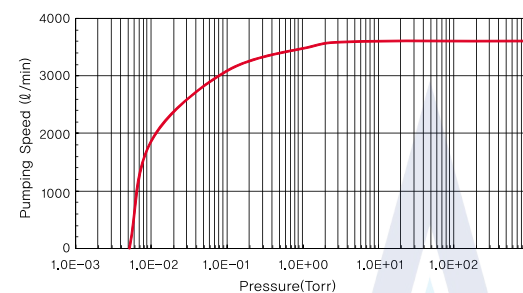
Design / Outline Drawing(mm)



Technical Specification

Item		Unit	60Hz
Designed Pumping Speed		ℓ / min	4500
Effective Pumping Speed		ℓ / min	3600
Ultimate vacuum	Gas V/V close	Torr (Pa)	7.5×10 ⁻³ (1.0)
Motor power	3Φ	kW	5.5
Oil capacity		ℓ	35
Cooling			Water cooling
Cooling water flow		ℓ / min	3.5 (at 20° C)
Inlet connection			VF-80
Outlet connection			VF-80
Weight		kg	440
Oil			ULTRA-200

Speed Curve



■특징

- 배기량에 비해 소음, 진동이 적다.
- 특수한 설계구조 방식으로 내구성이 강하다.
- 구조가 간단하며 정밀가공 핀 조립장식으로 제품 호환성이 양호하다.
- 고객이 원하는 모터를 쉽게 교체 할 수 있다.
- 대용량 배기시 MBP펌프 탑재가 용이하다.

■용도

- 대량의 공기를 짧게 배기시간을 요구하는 시스템에 적용
- 고순도 활성가스가 배기 및 흡입용으로 사용
- 진공배기, 진공열처리, 가스분석, 진공증착, 진공함침, 진공건조, 진공성형, 기타배기장치

■Feature

- Little vibration and noise against to exhaust capacity.
- strong durability by special structure type.
- Simple structure and pin-assemble type with a precise machinin having good replacement.
- Easy to replace motor which customer requested.
- Easy to install a MBP motor when high capacity was exhausted.

■Application

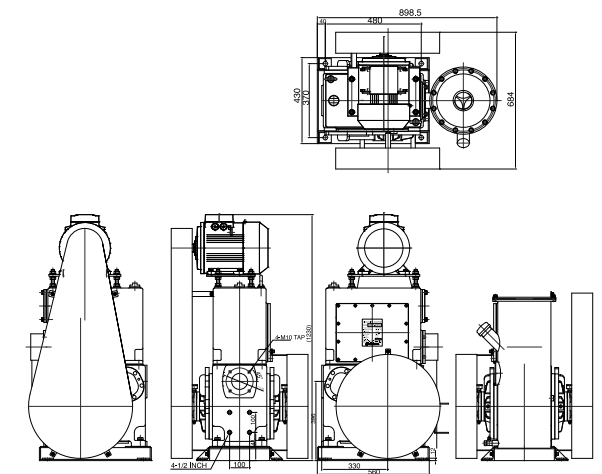
- For short exhausting time with enormous air.
- For exhausting or suction of high purity activated gas.
- For vacuum exhausting, vacuum heat-treatment, residual gas ana vacuum evaporation sintering, vacuum dry, vacuum deformation and etc.

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PISTON ROTARY PUMP ▶ KRP-8000

KRP-8000

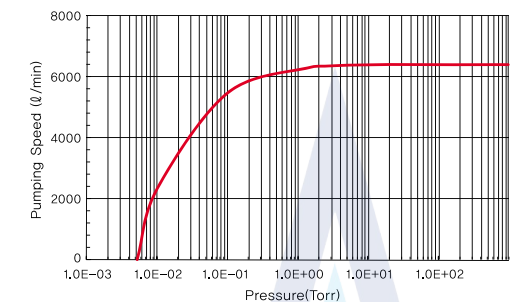
Design / Outline Drawing(mm)



Technical Specification

Item		Unit	60Hz
Designed	Pumping Speed	ℓ / min	8000
Effective	Pumping Speed	ℓ / min	6400
Ultimate vacuum	Gas V/V close	Torr(Pa)	7.5×10 ⁻³ (1.0)
Motor power	3Φ	kW	11
Oil capacity		ℓ	40
Cooling			Water cooling
Cooling water flow		ℓ / min	5 (at 20° C)
Inlet connection			VF-100
Outlet connection			VF-100
Weight		kg	770
Oil			ULTRA-200

Speed Curve



■특징

- 배기량에 비해 소음, 진동이 적다.
- 특수한 설계구조 방식으로 내구성이 강하다.
- 구조가 간단하며 정밀가공 핀 조립장식으로 제품 호환성이 양호하다.
- 고객이 원하는 모터를 쉽게 교체 할 수 있다.
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- 진공배기, 진공열처리, 가스분석, 진공증착, 진공함침, 진공건조, 진공성형, 기타배기장치

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