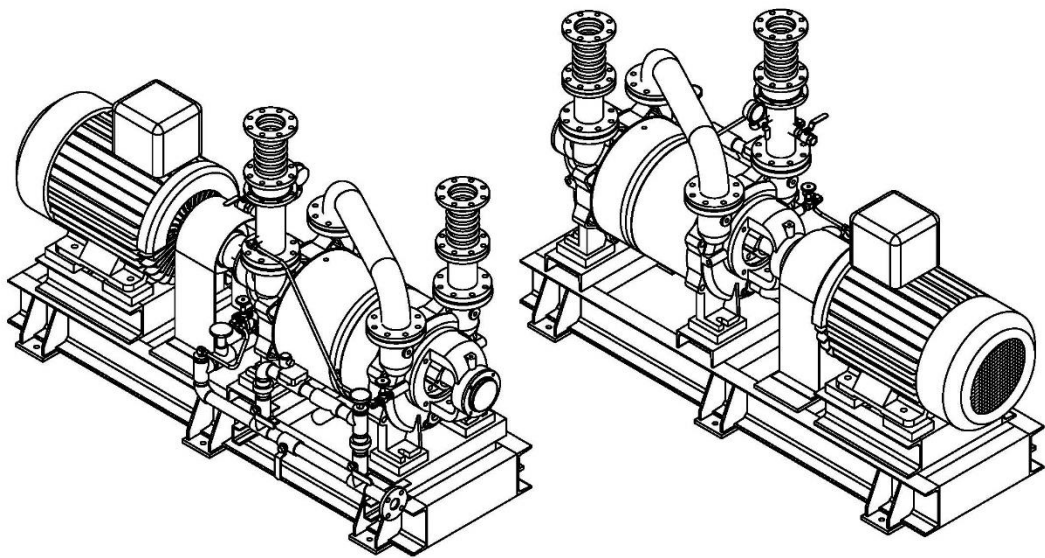
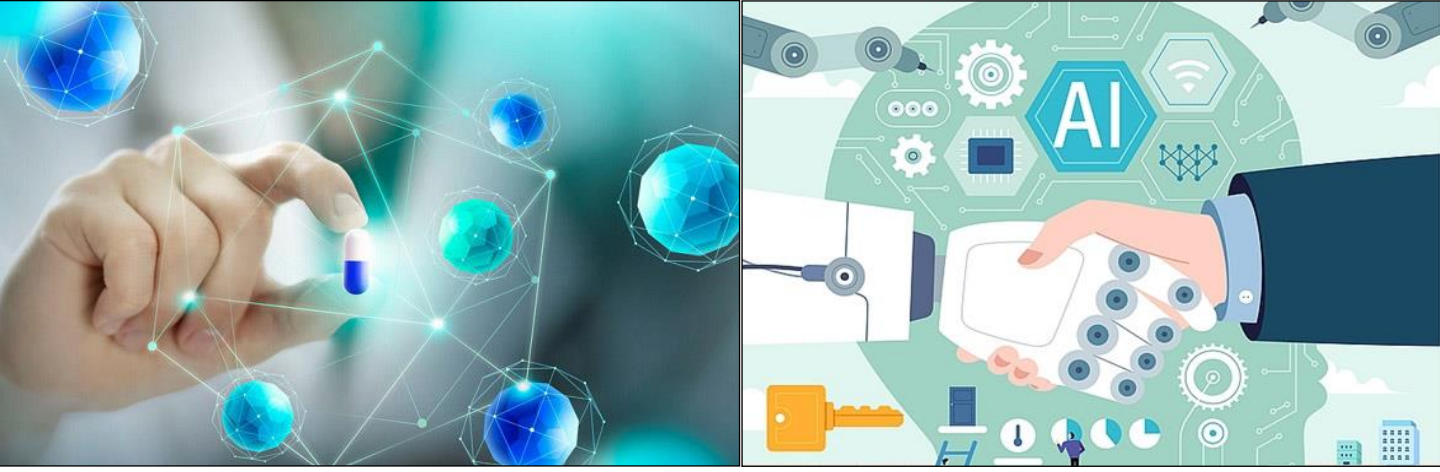




DVTEC VACUUM

Liquid ring Vacuum Pumps for all Industry





DVTEC Vacuum Best Partner with a vacuum solution

DVTEC is a company specializing in manufacturing, installing, and commissioning customized vacuum pumps and systems for all industries including pharmaceutical, chemical, and high-tech industries with long experience and advanced technology.

DVTEC provides sufficient value to satisfy customers by applying various optimal vacuum solutions that customers want with the latest technology to the field. In particular, we provide a variety of vacuum pumps with advanced technology, customized system configuration, low cost and high efficiency, and impressive services.

◆ Description

DVTEC Vacuum's Liquid ring vacuum pump, the DWVP series, consists of two stages and provides the highest performance at low suction pressure. Water ring vacuum pumps are efficient for wet or dry gases, and are highly efficient and durable for liquid entrained gases. In particular, by using SUS316 / SUS316L stainless material, it is applied to various processes as well as corrosion processes.

Two stage, high efficiency

Liquid Ring Vacuum Pumps

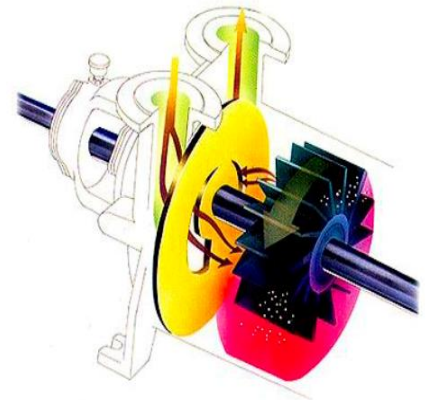
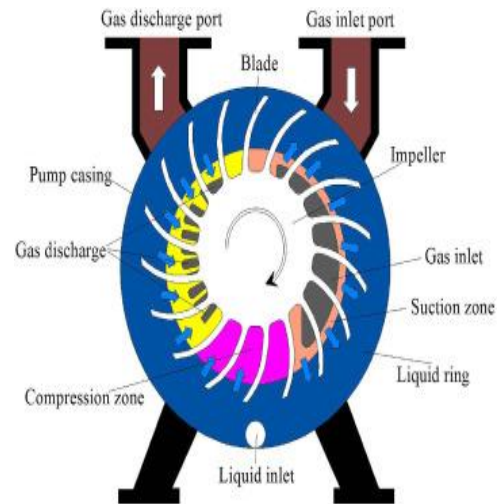
◆ Principle

Liquid ring vacuum pumps are used in a variety of applications. These pumps are positive displacement pumps, in which an impeller is eccentrically installed within a housing to create a vacuum. Water is mainly used, and when the impeller rotates, the liquid forms a seal in the casing, and the gas is transferred to the space between the impeller blade and the liquid ring. The gas is delivered to the center and to the space between each blade and the liquid ring. Due to the eccentric arrangement of the impeller, the volume of the inlet is increased, and the gas is sucked in through the inlet. As the impeller continues to rotate, the volume of the outlet is reduced, and the gas is compressed and exits through the outlet.

Oil Ring vacuum pumps can be operated as a one though system, full recirculation or partial recirculation system. Since the fluid inside the vacuum pump continuously lowers the heat of compression, the pump temperature is generally the same. This means that the process gas is not heated, so the vacuum pump operates at a relatively low temperature. This reduces the risk of unintended reactions or explosions. In addition, water vapor and gas are easily condensed and the capacity of the pump is increased.

◆ Characteristic

- Suitable for gas exhaust containing water vapor, moisture.
- Excellent for exhausting combustible and corrosive gases.
- Quiet driving is possible due to low noise and vibration.
- High exhaust efficiency at low pressure of 200 Torr as a 2-stage
- No pulsation at all in the continuous exhaust method.
- No risk of failure because there is no friction between Rotor and Case.
- Efficiency and maximum vacuum have improved more than conventional NASH types.
- Easy to select materials according to the process.

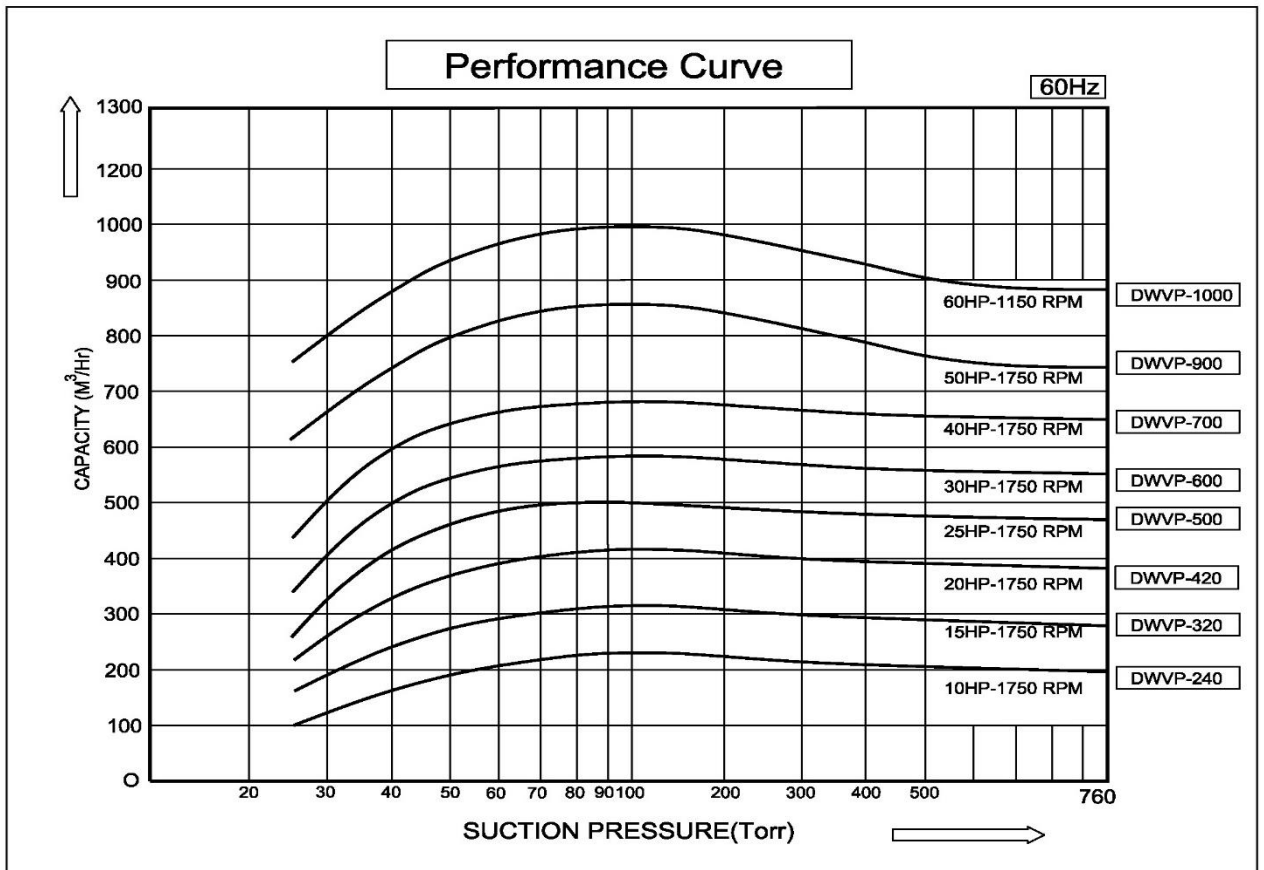


Liquid Ring Vacuum Pumps

◆ Technical data

TYPE	EXHAUST SPEED	MAX PRESS	REV COUNT	MOTOR	WATER SUPPLY	SUC'/DIS'	WEIGHT
MODEL	(m ³ /Hr)	Torr (Seal 15°C)	RPM	KW/P	l/Min	mm	KG
DWVP-2-240	240	20	1750	7.5 (4P)	3.3	40A	85
DWVP-2-320	320	20	1750	11 (4P)	4.5	50A	150
DWVP-2-420	420	20	1750	15 (4P)	5.5	50A	185
DWVP-2-500	500	20	1750	18.5(4P)	8	80A	230
DWVP-2-600	600	20	1750	30 (4P)	9	80A	310
DWVP-2-700	700	20	1750	30 (4P)	11	80A	350
DWVP-2-900	900	20	1750	37 (4P)	19	80A	390
DWVP-2-1000	1000	20	1150	45 (6P)	25	80A	570

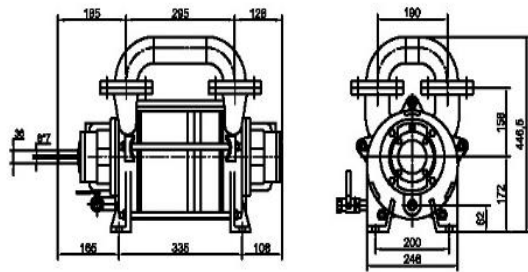
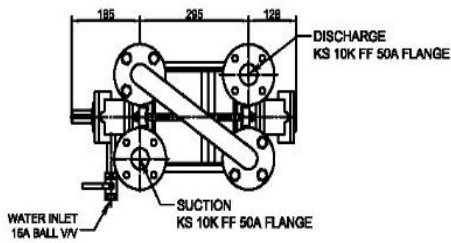
◆ Performance curve



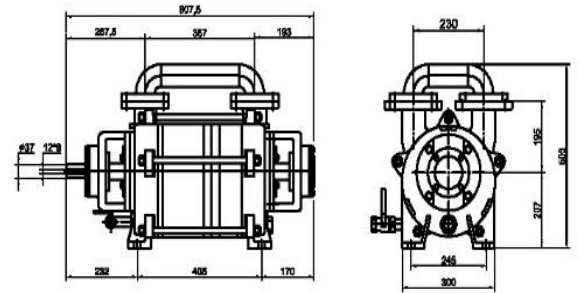
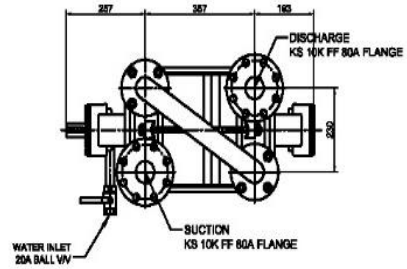


◆ OUTLINE DIMENSION

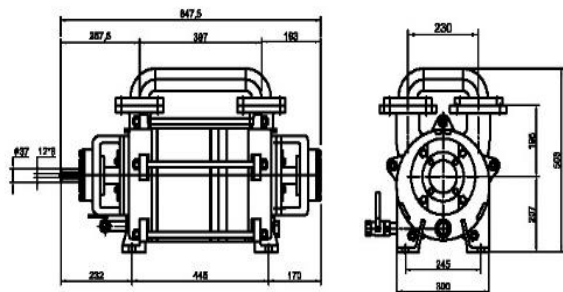
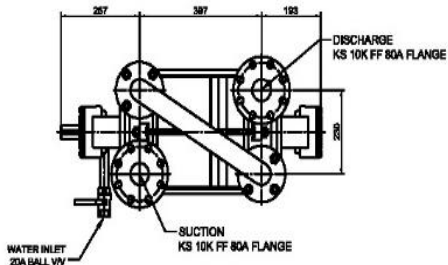
DWVP-250-10



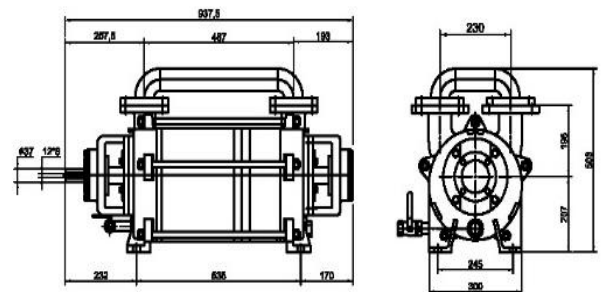
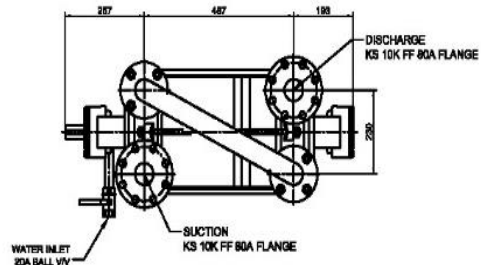
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DWVP-420-20

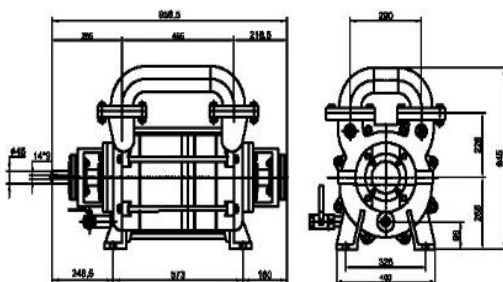
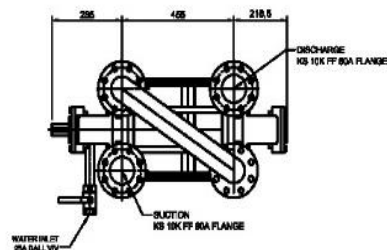


DWVP-550-25

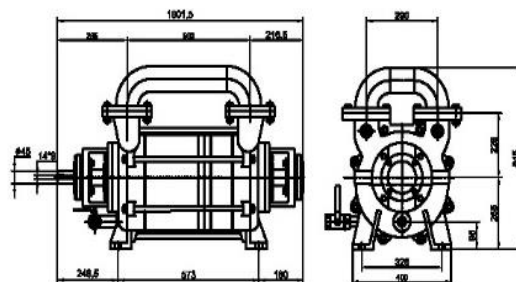
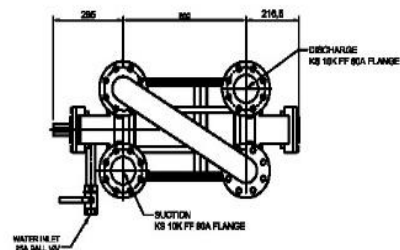




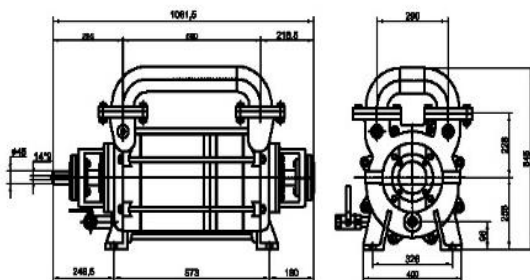
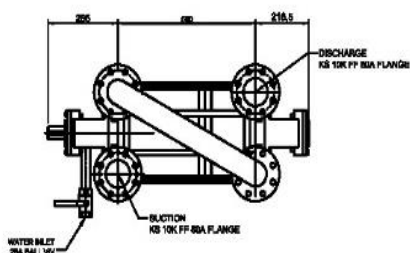
DWVP-600-30



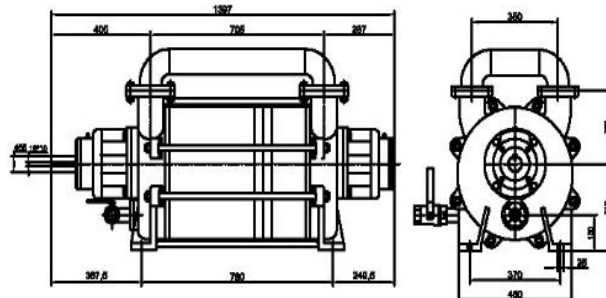
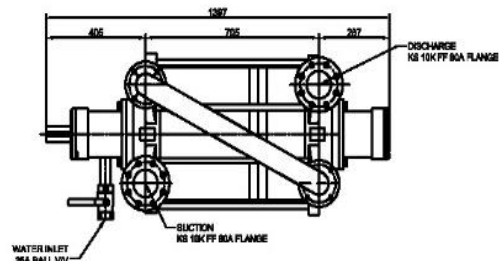
DWVP-700-40



DWVP-900-50



DWVP-1000-60





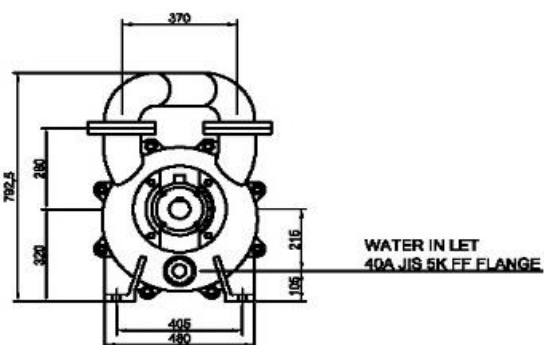
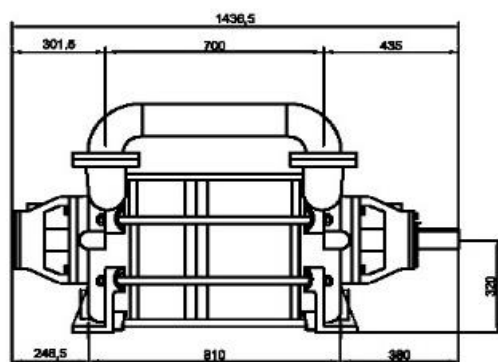
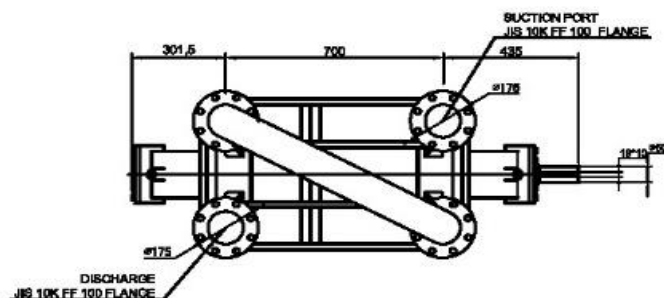
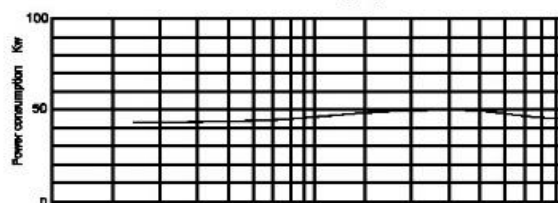
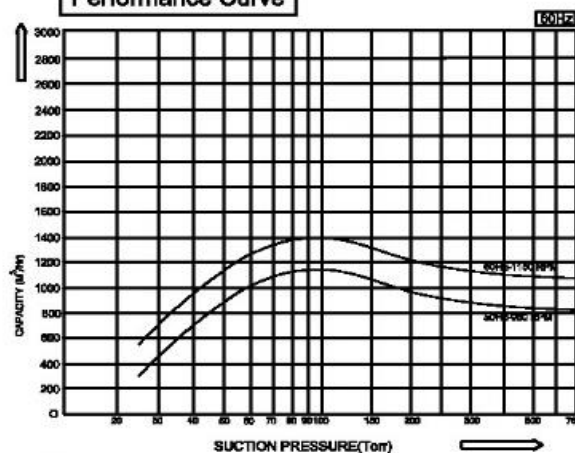
TECHNICAL DATA

MODEL	DWVP-1400	
STAGES	2 STAGE	
CAPACITY (50 Hz / 60Hz)	1150 M ³ /hr	1400 M ³ /hr
SUCTION PRESSURE(15 °C)	25 Torr	25 Torr
PORT SIZE	IN/OUT : 100	IN/OUT : 100
NOMINAL RPM	960 rpm	1150 rpm
WATER SUPPLY	50 L/min	50 L/min
WATER SUPPLY PIPE	40A	40A
MOTORPOWER	37Kw-6P	55Kw-6P
WEIGHT(Bear shaft)	750 Kg	750 Kg

MATERIAL OF CONSTRUCTION

	STANDARD	STAINLESS STEEL		
CASING	FCD 40	SUS304	SUS316	SUS316L
BODY	SS400	304SS	316SS	316LSS
IMPELLER	304SS	304SS	316SS	316LSS
SHAFT	420S37	420S37	420S37	420S37
SHAFT SLEEVE	304SS	304SS	316SS	316LSS
SEAL TYPE	Mech. seal type	Mech. seal type		

Performance Curve

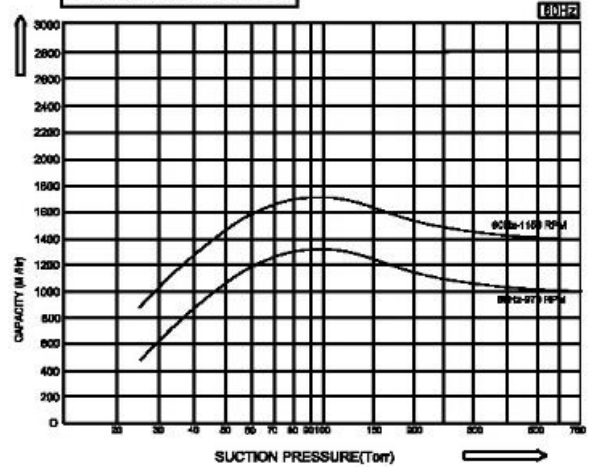




TECHNICAL DATA

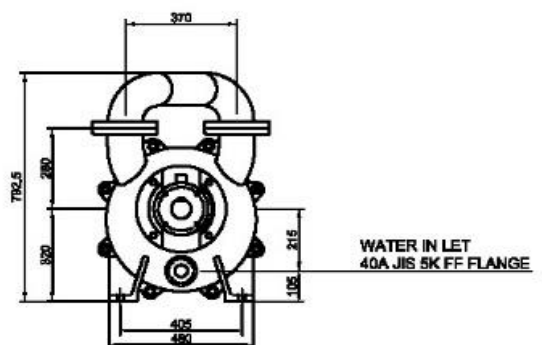
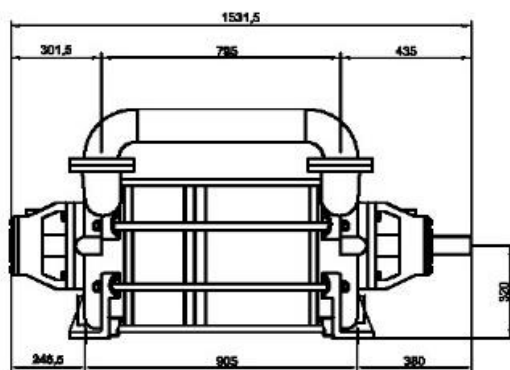
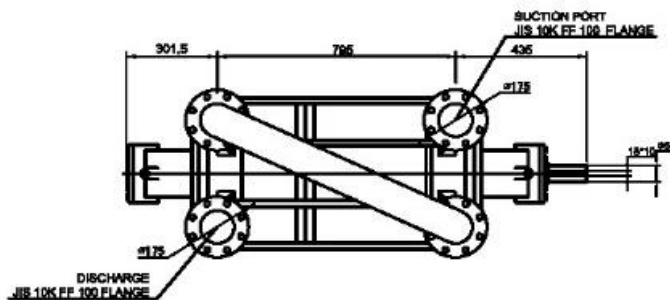
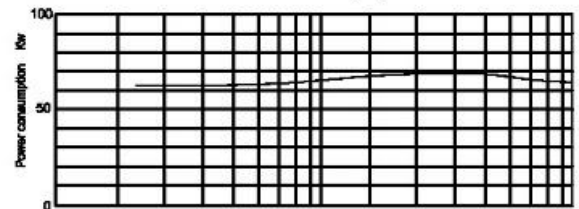
MODEL	DWVP-2000	
STAGE'S	2 STAGE	
CAPACITY (50 Hz / 60Hz)	1350 M ³ /hr	1650 M ³ /hr
SUCTION PRESSURE(15 °C)	25 Torr	25 Torr
PORT SIZE	IN/ OUT : 150	IN/ OUT : 150
NOMINAL RPM	730rpm	860rpm
WATER SUPPLY	150 L/min	150 L/min
WATER SUPPLY PIPE	50A	50A
MOTORPOWER	55Kw-6P	75Kw-6P
WEIGHT(Bear shaft)	1350 Kg	1350 Kg

Performance Curve



MATERIAL OF CONSTRUCTION

	STANDARD	STAINLESS STEEL		
CASING	FCD 40	SUS304	SUS316	SUS316L
BODY	SS400	304SS	316SS	S316LSS
IMPELLER	304SS	304SS	316SS	316LSS
SHAFT	420S37	420S37	420S37	420S37
SHAFT SLEEVE	304SS	304SS	316SS	316LSS
SEAL TYPE	Mech. seal type	Mech. seal type		

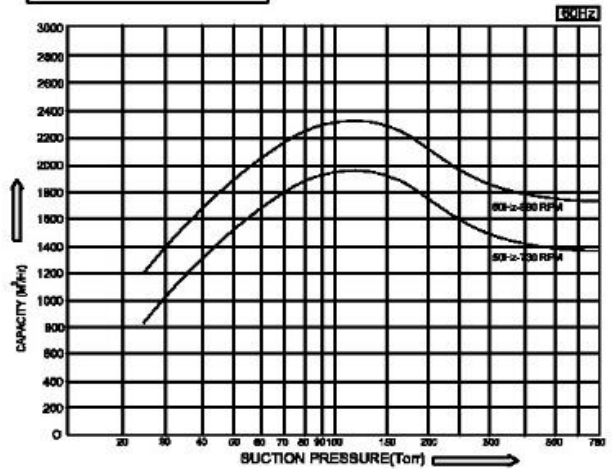




TECHNICAL DATA

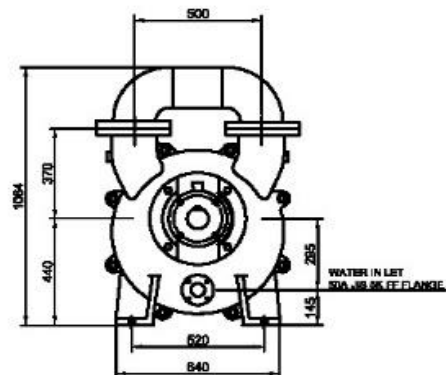
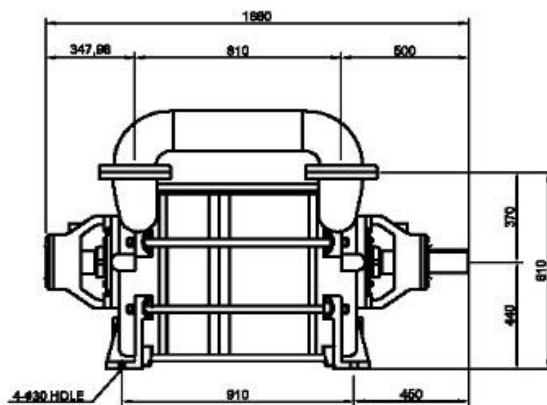
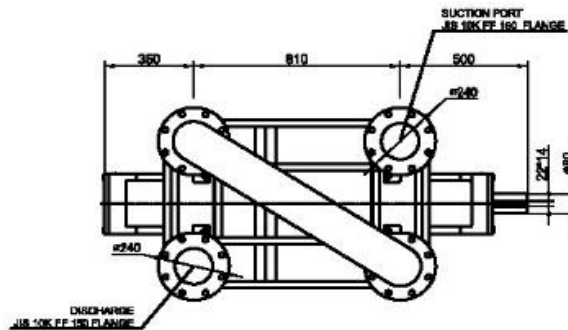
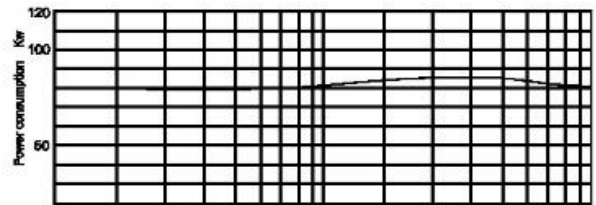
MODEL	DWVP-2000	
STAGE'S	2 STAGE	
CAPACITY (50 Hz / 60Hz)	1950 M ³ /hr	2300 M ³ /hr
SUCTION PRESSURE(15 °C)	25 Torr	25 Torr
PORT SIZE	IN/ OUT : 150	IN/ OUT : 150
NOMINAL RPM	730rpm	880rpm
WATER SUPPLY	150 L/min	150 L/min
WATER SUPPLY PIPE	50A	50A
MOTORPOWER	75Kw-8P	90Kw-8P
WEIGHT(Bear shaft)	1250 Kg	1250 Kg

Performance Curve



MATERIAL OF CONSTRUCTION

	STANDARD		STAINLESS STEEL	
CASING	FCD 40	SUS304	SUS316	SUS316L
BODY	SS400	304SS	316SS	316LSS
IMPELLER	304SS	304SS	316SS	316LSS
SHAFT	420S37	420S37	420S37	420S37
SHAFT SLEEVE	304SS	304SS	316SS	316LSS
SEAL TYPE	Mech. seal type		Mech. seal type	

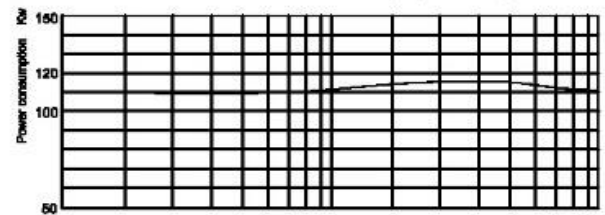
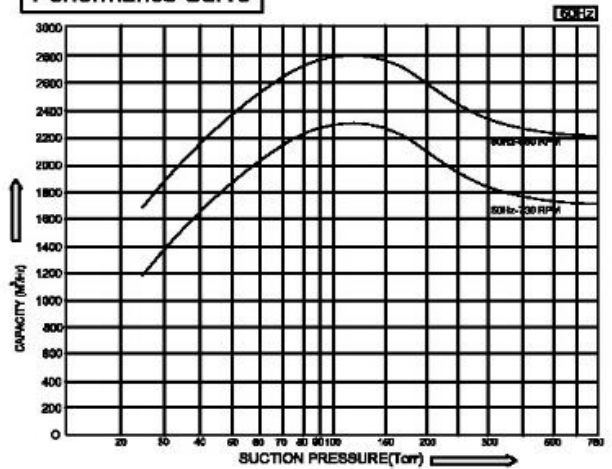




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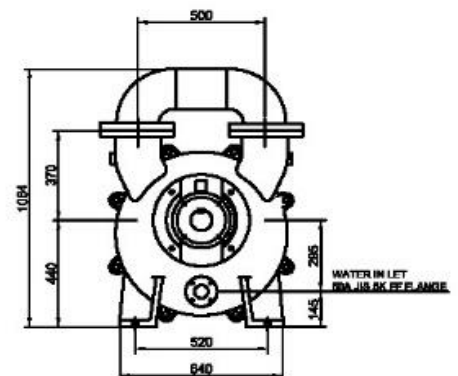
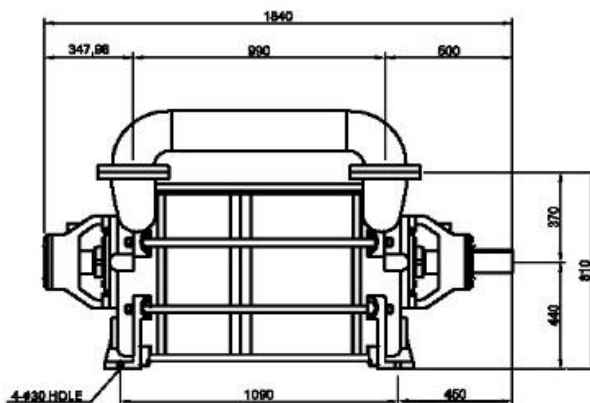
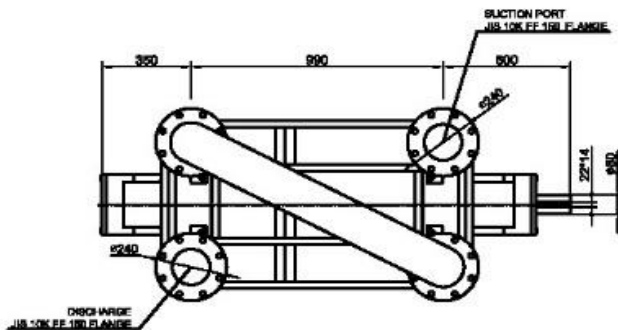
MODEL	DWVP-2600	
STAGE'S	2 STAGE	
CAPACITY (50 Hz / 60Hz)	2300 M ³ /hr	2800 M ³ /hr
SUCTION PRESSURE(15 °C)	25 Torr	25 Torr
PORT SIZE	IN/ OUT : 150	IN/ OUT : 150
NOMINAL RPM	730rpm	880rpm
WATER SUPPLY	150 L/min	150 L/min
WATER SUPPLY PIPE	50A	50A
MOTORPOWER	90Kw-8P	120Kw-8P
WEIGHT(Bear shaft)	1250 Kg	1250 Kg

Performance Curve

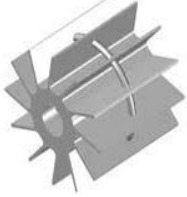


MATERIAL OF CONSTRUCTION

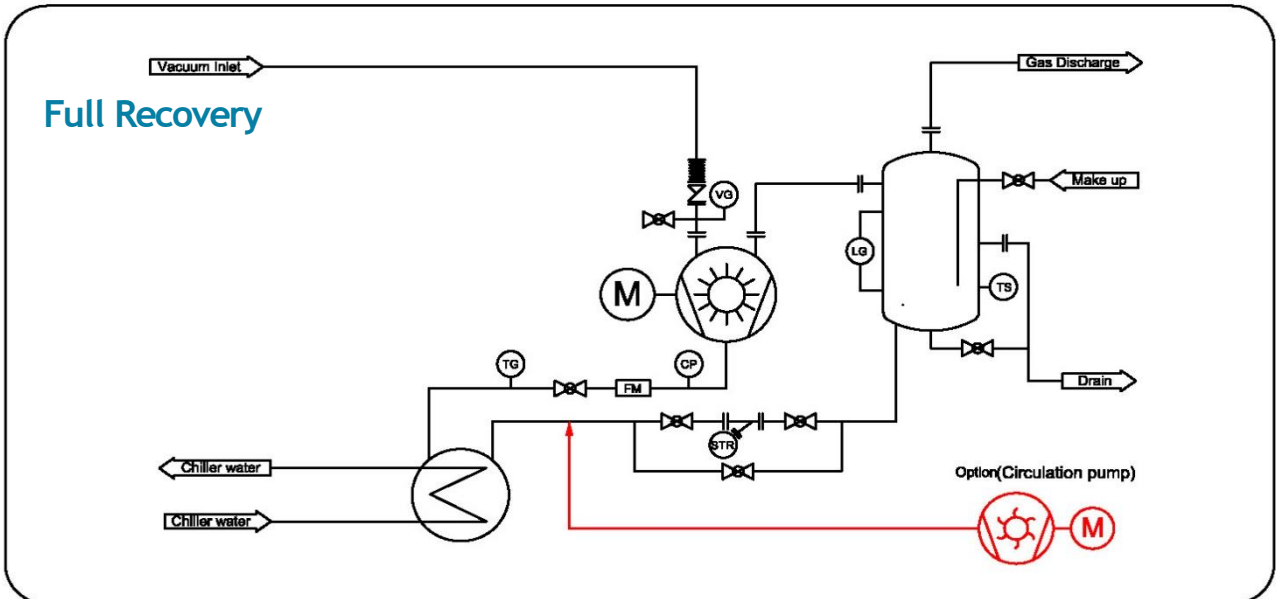
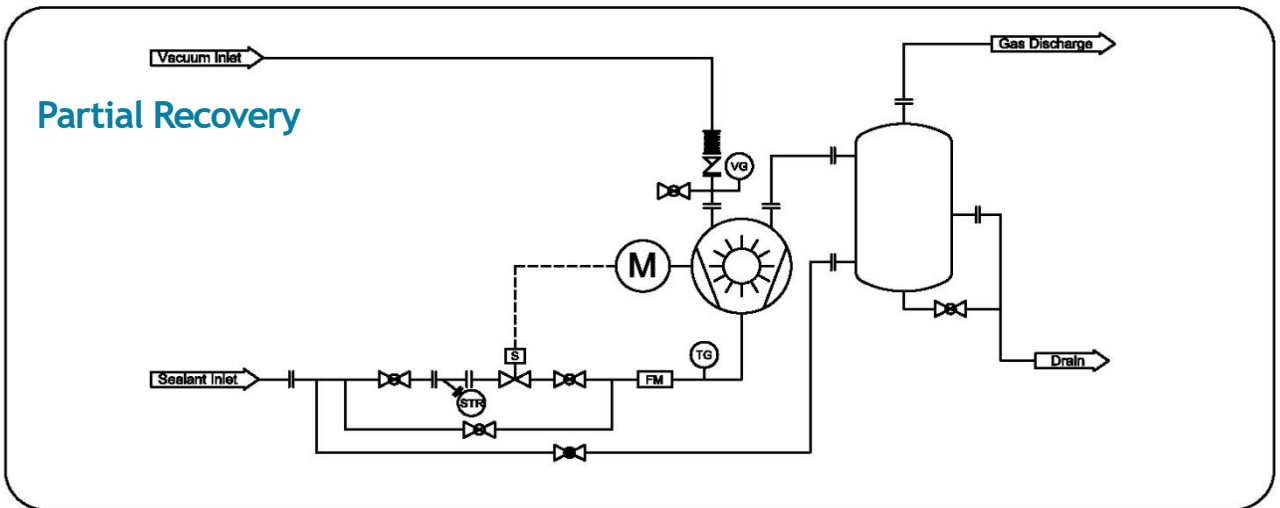
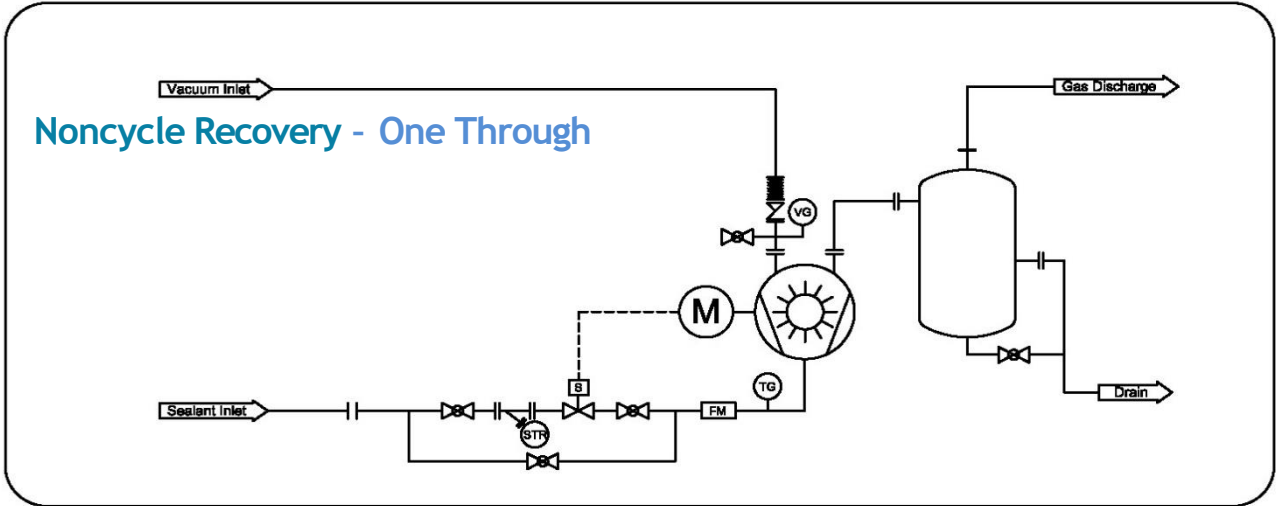
	STANDARD		STAINLESS STEEL	
CASING	FCD 40	SUS304	SUS316	SUS316L
BODY	SS400	304SS	316SS	S316LSS
IMPELLER	304SS	304SS	316SS	316LSS
SHAFT	420S37	420S37	420S37	420S37
SHAFT SLEEVE	304SS	304SS	316SS	316LSS
SEAL TYPE	Mech. seal type		Mech. seal type	

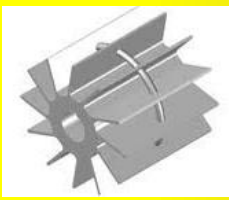


Liquid Ring Vacuum Pumps



◆ Typical Service of Liquid Supply





Liquid Ring Vacuum Pumps

◆ Material Composition

Body Casing : Cast Iron(FCD 40) / SUS304 / SUS316 / SUS316L

Impeller : BC / SUS304 / SUS316 / SUS316L

Cylinder / Plate : Cast Iron(FCD 40) / SUS304 / SUS316 / SUS316L

Seal Type : Mechanical Seal – Carbon + SIC / SIC + SIC

Seal O-ring : Viton, Kalrez, Teflon

◆ Application

- Plastic extrusion
- Rubber processing
- Pulp and paper
- Polymerization,
- Drying of plastic chips
- Steam Sterilization,
- Evaporation
- Pressurized transport
- Chemical industry
- Food industry, Pet food
- EPS, Vacuum Foaming
- High-tech industry
- Petrochemical(VOC, VRU)
- Recycling, Removal of odors
- Concentration, Reaction
- Hospital, Clinic
- Steel industry
- Power plant

◆ Part- Option

- Gas/Steam Ejector
- Mechanical booster pump
- Circulation pump
- Ancillary facilities
- Spare part
- Gas-liquid Separation
- Heat Exchanger
- non-return valve
- Special valve
- Vacuum relief Device



As to customer requirements, Customizing Liquid Ring Vacuum Systems

- ◆ Customized Design, Production, Commissioning, Service
- ◆ Process safety, Energy saving, and User convenience
- ◆ System design optimized for Process and Environment

The water ring vacuum pump is very useful for vacuum system and vacuum module applications. Combined with air ejector, steam ejector and vacuum booster, high vacuum is possible. You can find the optimal solution technically and economically with a vacuum system customized for each special process. DVTEC Vacuum Pump and System has been designing, manufacturing and supplying efficient, economical and safe systems for a long time.

“DV Tec Vacuum” is a company recognized for its technology and quality, providing design, manufacturing, installation, commissioning, and troubleshooting.

With various experiences and advanced technology, we perform the optimal total solution according to customer needs.

Pre-condenser system design suitable for process gas and utility conditions

After Condenser System Design for Solvent and Process Material Recovery

Design of suction filter, demister, and process material separation device for vacuum stability

Various system design experience suitable for vacuum process stabilization

Capacity : 200 ~ 3000m³/hr



Capacity : 1200 ~ 18000m³/hr



Total Solution Partner of Vacuum pumps
& Vacuum systems

DVTEC VACUUM



**Supply and Service
of best Products**

**Our values and
promise to customers**



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E-mail : hsw4085@naver.com, dvtec71@naver.com