

LIQUID RING VACUUM PUMPS

GVP 200/120 - GVP 200/170

PRESSURE RANGE	: 33 – 1013 mbara	/	0.98 – 30 inHg
SUCTION CAPACITY	: 75 – 225 m³/h	/	44 – 132 cfm

GÜCÜM two stage liquid ring vacuum pumps are used for pumping dry and wet gases, small quantities of liquid can be handled. They are used in the areas at which vacuum needed between the pressures 1013 to 33 mbar

Gücüm Two stage liquid ring vacuum pumps have below features;

- > Able to pump every kind of gases and vapors,
- > Able to handle small quantities of liquid with gases,
- Oil-free, no need to lubrication,
- Pumped gas does not touch to oil,
- Minimum maintenance with high efficiency
- No metallic contact of the rotating parts,
- Works quiet and reduced vibration,
- Nearly everywhere used with suitable material choices.



APPLICATION

Pumps are used for the discharge of dry and humid gases (containing vapor) and a certain amount of water. It can be used in all areas where absolute pressure between 1013 and 33 mbar is required.

ADDITIONAL NOTE

During operation, the pump must be continuously supplied with liquid (usually water) to replenish the water from the exhaust line and to reduce the pump temperature. The water discharged from the pump is separated from the gas and is suitable for reuse.

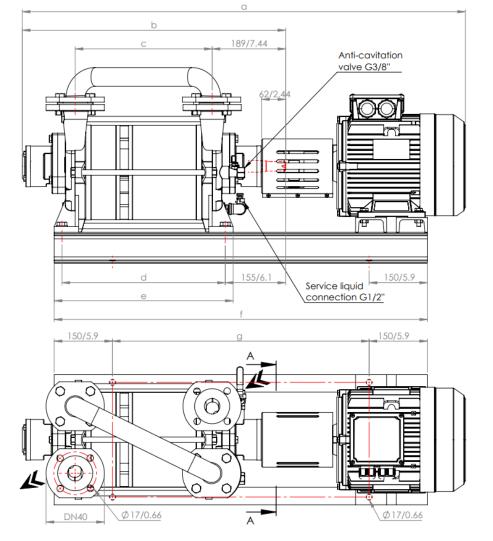
The direction of shaft rotation is clockwise when viewed from the motor side. The tightness is ensured by a standard mechanical seal.

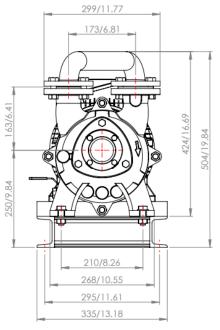
TECHNICAL FEATURES							
Maximum allowable pressure differential	1.1	bar					
Highest saturated air temperature	100	°C					
Highest dry air temperature	200	°C					
Highest service water temperature	70	°C					
Highest service water viscosity	4	mm²/sec					
Noise level (at 80 mbar vacuum)	65 ±3	dB A					
Highest density of service water	1200	kg/m³					
Highest heat exchanger flow resistance	0,2	bar					

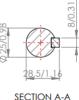




OVERALL DIMENSIONS







SECTION	M-M
SCALE 1	:2

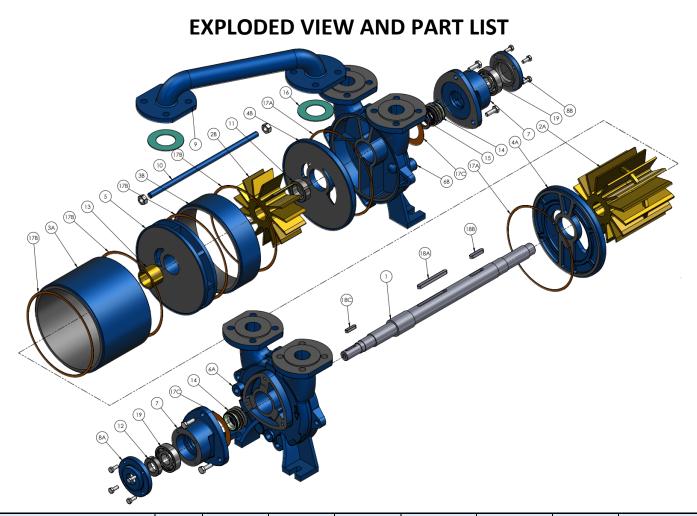
		а	b	С	c d e f g						
MODEL	50 Hz.	mm / inch								With Motor	
GVP 20	00/120	1090 / 42.91	627 / 24.68	302 / 11.88	370 / 14.56	410 / 16.14	910 / 35.82	610 / 24.01	85 / 187	145 / 320	
GVP 20	00/170	1140 / 44.88	677 / 26.65	352 / 13.85	420 / 16.53	460 / 18.11	960 / 37.79	660 / 25.98	95 / 209	160 / 352	

	a b c d e f g							Weight (kg / lbs)		
MODEL	60 Hz.	mm / inch								With Motor
GVP 20	00/120	1130 / 44.48	627 / 24.68	302 / 11.88	370 / 14.56	410 / 16.14	950 / 37.4	650 / 25.59	85 / 187	155 / 342
GVP 20	00/170	1180 / 46.45	677 / 26.65	352 / 13.85	420 / 16.53	460 / 18.11	1000 / 39.37	700 / 27.55	95 / 209	170 / 375

Motor Specifications								
	50 Hz 60 Hz 50 Hz 60 Hz							
Туре	Frame Size –	rpm	kW	HP	rpm	kW	HP	
GVP 200/120	132S – B3	132M – B3	1450	5,5	7,5	1750	7,5	10
GVP 200/170	132S – B3	132M – B3	1450	5,5	7,5	1750	7,5	10



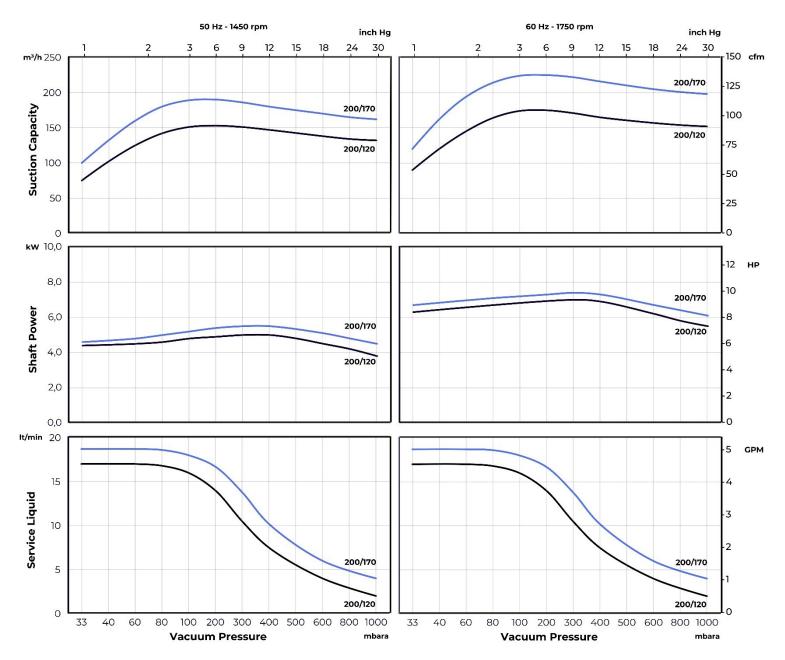




PART LIST	Cast Iron	Nodular Cast Iron	AISI 420	AISI 304	AISI 316	Bronze	St-37	Qty.
1.Shaft			\checkmark	\checkmark	\checkmark			1
2A. First Stage Impeller				\checkmark	\checkmark	\checkmark		1
2B. Second Stage Impeller				\checkmark	\checkmark	\checkmark		1
3A. First Stage Cover				\checkmark	\checkmark		\checkmark	1
3B. Second Stage Cover				\checkmark	\checkmark		\checkmark	1
4A. Suction Plate		\checkmark		\checkmark	\checkmark			1
4B. Discharge Plate		\checkmark		\checkmark	\checkmark			1
5. Intermediate Plate		\checkmark		\checkmark	\checkmark			1
6A. Sunction Casing	\checkmark			\checkmark	\checkmark			1
6B. Discharge Casing	\checkmark			\checkmark	\checkmark			1
7. Bearing Carrier	\checkmark			\checkmark	\checkmark			2
8A. Bearing Cover	\checkmark			\checkmark	\checkmark			2
8B. Bearing End Cover								2
9. Manifold				\checkmark	\checkmark		\checkmark	1
10. Tie Rod							\checkmark	4
11. Impeller Nut			\checkmark					1
12. Bearing Nut			\checkmark					1
13. Impeller Spacer			\checkmark					1
14. Mechanical Seal			MG1 –	Ø35 – G6 / SiC -	– Carbon – Viton		-	2
15. Mechanical Seal Spacer				\checkmark	\checkmark			1
16. Klingrite Gasket		Klingrite						
17A. Casing Gasket		Paper						
17B. Cover Gasket		Paper						
17C. Bearing Carrier Gasket				Paper				2
18A. Impeller Key				\checkmark	\checkmark		\checkmark	1
18B. Impeller Key				\checkmark	\checkmark		\checkmark	1
18C. Coupling Key				\checkmark	\checkmark		\checkmark	1
19. Bearing				6306-ZZ/C3 /	100Cr6			2







Suction Capacity							
Type 50 Hz 60 Hz							
GVP 200/120	75 – 155 m³/h / 44 - 91 cfm	90 – 175 m³/h / 53 – 103 cfm					
GVP 200/170	100 – 190 m³/h / 59 – 112 cfm	120 – 225 m³/h / 70 – 132 cfm					

The above characteristic curves have been prepared in accordance with ISO 21360 standards. The curves are valid for the vacuum of 15° C service water and 20° C dry air supplied to the liquid ring vacuum pump at atmospheric pressure (760 mmHg / 1013 mbar). The values in the chart have a tolerance of ±10%.

Characteristic curves vary under different operating conditions.

Çerkeşli OSB Mah. İMES-23.Cadde No:6 Dilovası - KOCAELİ / TÜRKİYE Tel : +90 (212) 254 80 93