

LIQUID RING VACUUM PUMPS

GMVP 270/110 – GMVP 270/155

PRESSURE RANGE	: 33 – 1013 mbara	/	0.98 – 30 inHg
SUCTION CAPACITY	: 150 – 448 m³/h	/	88 – 264 cfm

GÜCÜM single stage liquid ring vacuum pumps offer the following features with its monoblock structure;

- Operate safely and efficiently,
- Vacuum of all kinds of gases and vapors is ensured,
- Lesser amounts of liquid can also be vacuumed,
- The compression of the absorbed gases is isothermal,
- The rotating parts make no metallic contact,
- Operate quietly and without vibration,
- Low operating and investment costs,
- Can be used in any environment with a wide choice of materials.
- They operate at high efficiency for a long time without maintenance,
- It is oil-free and does not require any lubricant in its work environment,

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.

A standard mechanical seal ensures tightness.

It must be driven directly with the electric motor instead of using a coupling.

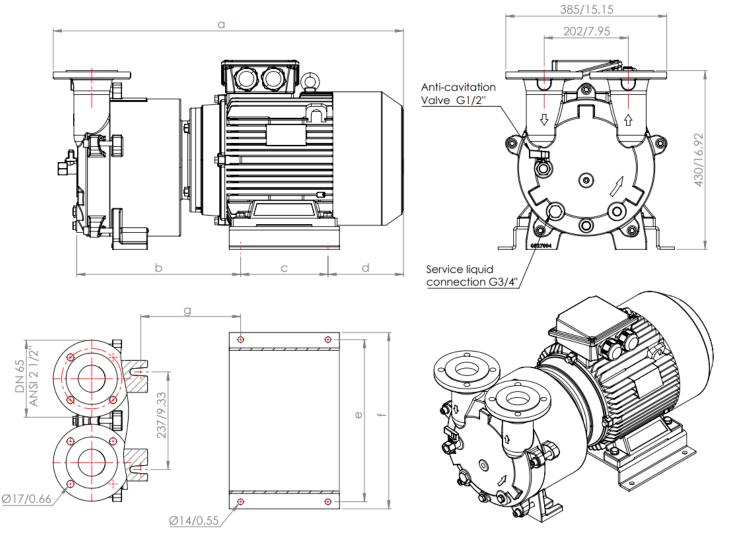
TECHNICAL FEATURES								
Maximum allowable pressure differential	1.1	bar						
Highest saturated air temperature	100	°C						
Highest dry air temperature	200	°C						
Highest service water temperature	70	°C						
Highest service water viscosity	4	mm²/sec						
Noise level (at 80 mbar vacuum)	72 ±3	dB A						
Highest density of service water	1200	kg/m³						
Highest heat exchanger flow resistance	0,2	bar						







OVERALL DIMENSIONS



MODEL	50 Hz.	а	b	С	d	е	f	g	Weight
MODEL	50 1121	mm / inch							kg / Ibs
GMVP 2	270/110	685 / 27	350 / 13.8	178 / 7	130 / 5.1	390 / 15.35	424 / 16.7	197 / 7.75	132 / 290
GMVP 2	270/155	841/33.1	391 / 15.4	210/8.3	190 / 7.5	390 / 15.35	424 / 16.7	242 / 9.5	193 / 425

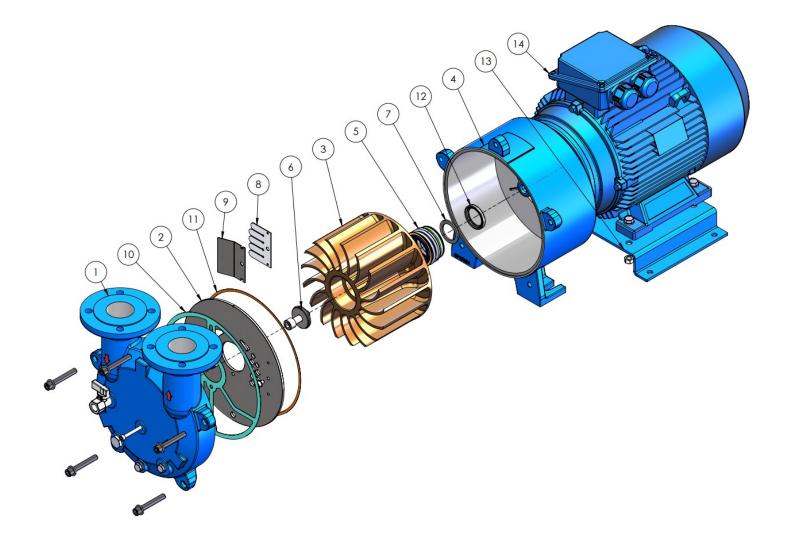
MODEL	60 Hz.	а	b	С	d	е	f	g	Weight
MODEL	001121	mm / inch							kg / Ibs
GMVP 2	270/110	797 / 31.4	350 / 13.8	210/8.3	181 / 7.1	390 / 15.35	424 / 16.7	197 / 7.75	164 / 361
GMVP 2	270/155	886 / 34.9	391 / 15.4	254 / 10	181 / 7.1	390 / 15.35	424 / 16.7	242 / 9.5	213 / 470

Motor Specifications								
50 Hz 60 Hz 50 Hz 60 Hz								
Туре	Frame Size –	rpm	kW	HP	rpm	kW	HP	
GMVP 270/110	132M – B34	160M – B34	1450	7.5	10	1750	11	15
GMVP 270/155	160M – B34	160L – B34	1450	11	15	1750	15	20





EXPLODED VIEW AND PART LIST

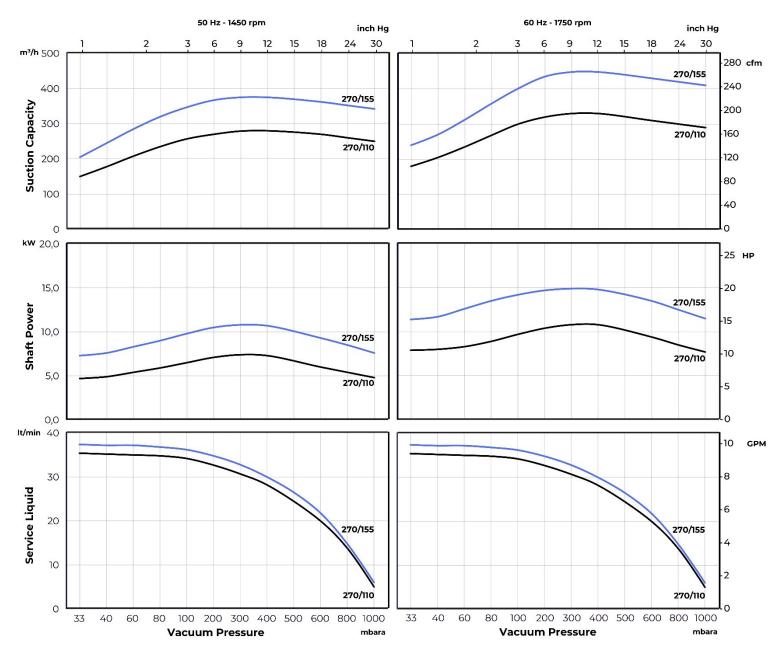


PART LIST	Cast Iron	Nodular Cast Iron	AISI 420	AISI 304	AISI 316	Bronze	St-37	Qty.
1. Suction & Discharge Casing	\checkmark			\checkmark	\checkmark			1
2. Plate				\checkmark	\checkmark			1
3. Impeller				\checkmark	\checkmark	\checkmark		1
4. Body		\checkmark		\checkmark	\checkmark			1
5. Mechanical Seal		MG1 – Ø55/Ø60 – G6 / SiC – Carbon – Viton						
6. Impeller Cover				\checkmark	\checkmark			1
7. Impeller Washer				\checkmark	\checkmark			1
8. Valve	PTFE							1
9. Valve Cover				\checkmark	\checkmark			1
10. Casing Gasket	Klingrite							1
11. Body Gasket	Paper							1
12. Oil Seal	Rubber						1	
13. Chasis							\checkmark	1
14. Electrical Motor	Aluminum Frame							1





CHARACTERISTIC CURVES



Suction Capacity									
Туре	50 Hz	60 Hz							
GMVP 270/110	150 – 280 m³/h / 88 – 165 cfm	180 – 330 m³/h / 105 – 195 cfm							
GMVP 270/155	205 – 375 m³/h / 120 – 220 cfm	240 – 448 m³/h / 141 – 264 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.

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