

LIQUID RING VACUUM PUMPS

GMVP 120/030 – GMVP 120/050

PRESSURE RANGE	: 33 – 1013 mbara	/	0.98 – 30 inHg
SUCTION CAPACITY	: 10 – 59 m³/h	/	6 – 35 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.

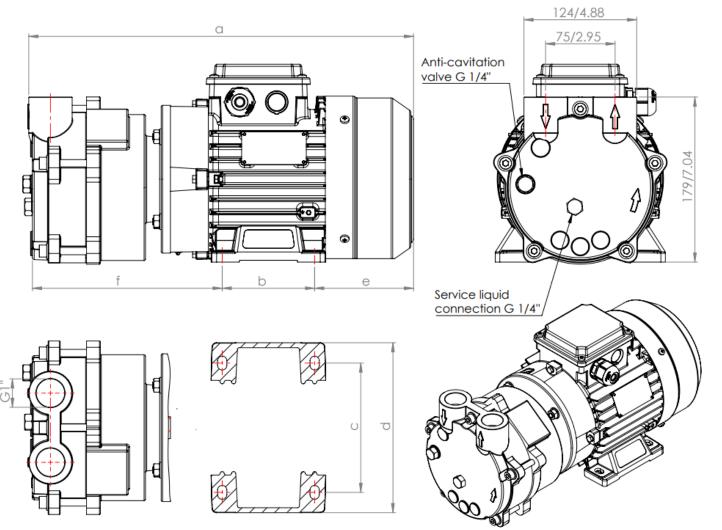
1.1	bar
100	°C
200	°C
70	°C
4	mm²/sec
70 ±3	dB A
1200	kg/m³
0,2	bar
	200 70 4 70 ±3 1200







OVERALL DIMENSIONS



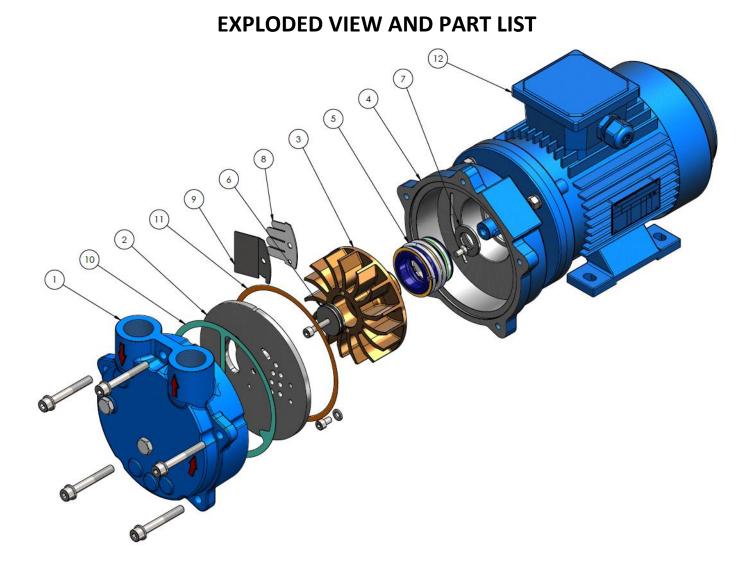
MODEL	50 Hz.	а	b	С	d	е	f	Weight
model	50 1121			kg / lbs				
GMVP	120/030	383 / 15.07	100 / 3.93	125 / 4.92	164 / 6.45	100 / 3.93	180 / 7.08	18 / 40
GMVP	120/050	415 / 16.33	100 / 3.93	140 / 5.51	184 / 7.24	107 / 4.21	205 / 8.07	23 / 51

MODEL	60 Hz.	а	b	С	d	е	f	Weight
MODEL	00112.			mm / inch				
GMVP 1	120/030	395 / 15.55	100 / 3.9	140 / 5.5	184 / 7.25	107 / 4.2	185 / 7.3	19 / 42
GMVP1	.20/050	441 / 17.4	125 / 4.9	140 / 5.5	184 / 7.25	107 / 4.2	205 / 8.1	26 / 57

Motor Specifications									
	50 Hz	50 Hz 60 Hz 50 Hz						60 Hz	
Туре	Frame Size –	rpm	kW	HP	rpm	kW	HP		
GMVP 120/030	80M – B34	80M – B34	2850	0.75	1	3450	1.5	2	
GMVP 120/050	90S – B34	90L – B34	2850	1.5	2	3450	2.2	3	



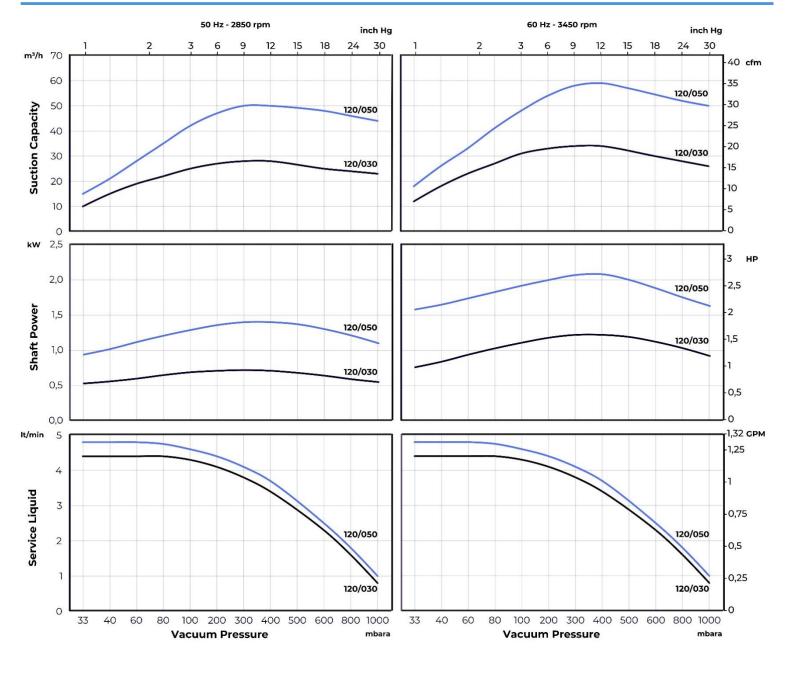




PART LIST	Cast Iron	Nodular Cast Iron	AISI 420	AISI 304	AISI 316	Bronze	St-37	Qty.
1. Suction & Discharge Casing	\checkmark			\checkmark	\checkmark			1
2. Plate				\checkmark	\checkmark			1
3. Impeller				\checkmark	\checkmark	\checkmark		1
4. Body		\checkmark		\checkmark	\checkmark			1
5. Mechanical Seal		MG1 – Ø35 – 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. Electrical Motor		Aluminum Frame						

CHARACTERISTIC CURVES





Suction Capacity							
Туре	50 Hz 60 Hz						
GMVP 120/030	10 – 28 m³/h / 6 – 17 cfm	12 – 34 m³/h / 7 – 20 cfm					
GMVP 120/050	15 – 50 m³/h / 9 – 30 cfm	18 – 59 m³/h / 11 – 35 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 $\pm 10\%$.

Characteristic curves vary under different operating conditions.

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