

## 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.

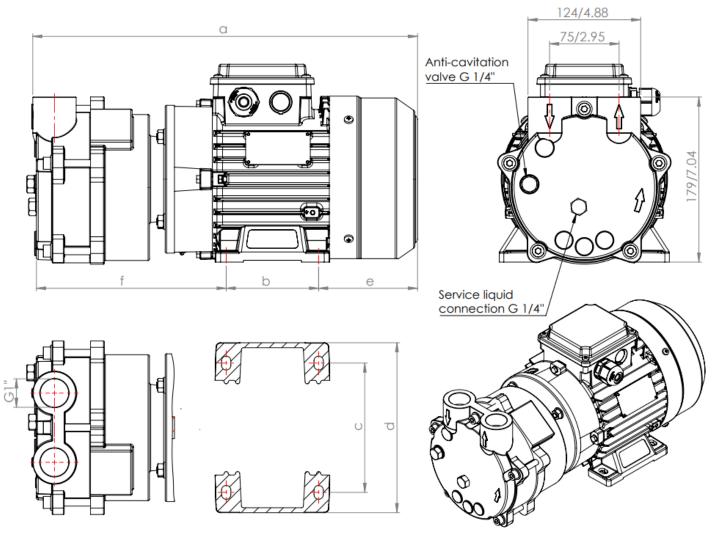
TECHNICAL FEATURES						
Maximum allowable pressure differential	1.1	bar				
Highest saturated air temperature	100	°C				
Highest dry air temperature	200	°C				
Highest service water temperature	70	°C				
Highest service water viscosity	4	mm²/sec				
Noise level (at 80 mbar vacuum)	70 ±3	dB A				
Highest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







# **OVERALL DIMENSIONS**



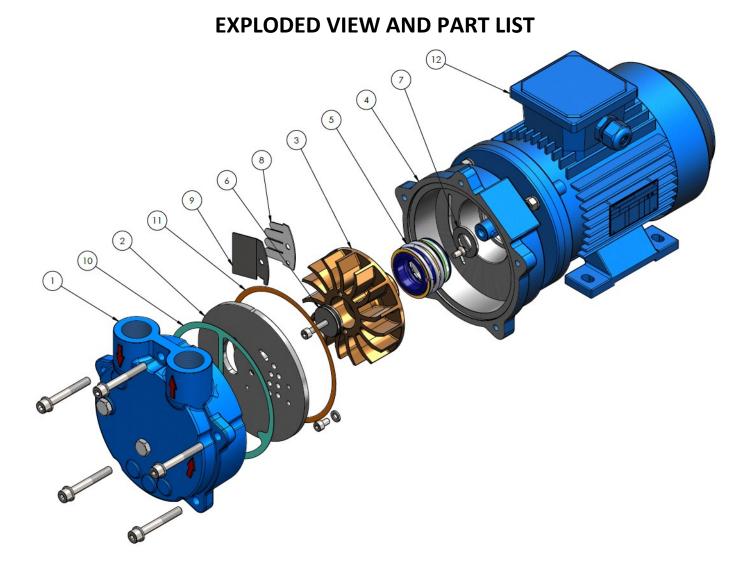
MODEL	50 Hz.	а	b	C	d	е	f	Weight
MODEL	50 1121	mm / inch						
GMVP 1	L20/030	383 / 15.07	100 / 3.93	125 / 4.92	164 / 6.45	100 / 3.93	180 / 7.08	18 / 40
GMVP 1	L20/050	415 / 16.33	100 / 3.93	140 / 5.51	184 / 7.24	107 / 4.21	205 / 8.07	23 / 51

MODEL	60 Hz.	а	b	С	d	е	f	Weight	
MODEL	001121		mm / inch						
GMVP 1	20/030	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 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



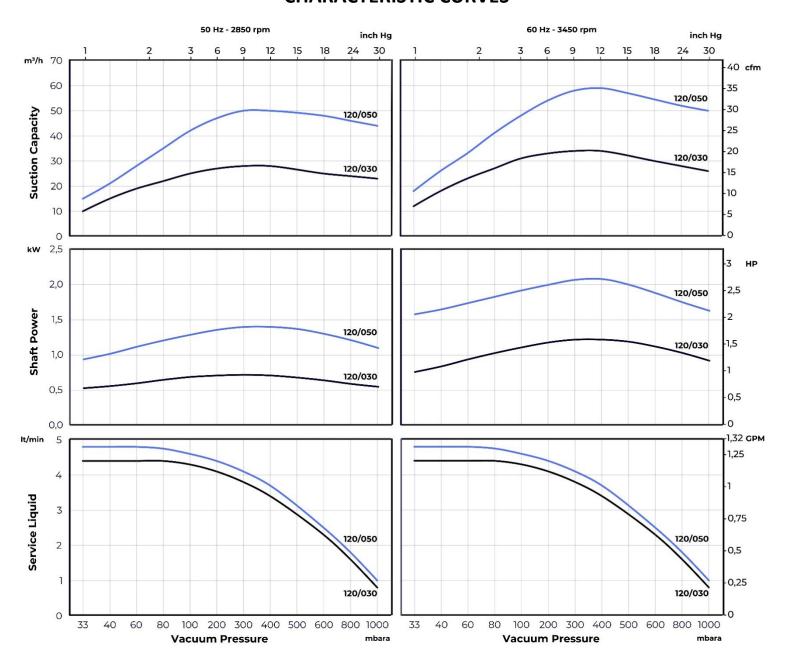




PART LIST	Cast Iron	Nodular Cast Iron	AISI 420	AISI 304	AISI 316	Bronze	St-37	Qty.
1. Suction &	$\checkmark$			$\checkmark$	$\checkmark$			1
Discharge Casing	v			v	v			1
2. Plate				$\checkmark$	$\checkmark$			1
3. Impeller				$\checkmark$	$\checkmark$	$\checkmark$		1
4. Body		$\checkmark$		$\checkmark$	$\checkmark$			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						
9. Valve Cover				$\checkmark$	$\checkmark$			1
10. Casing Gasket	Klingrite							1
11. Body Gasket		Paper						
12. Electrical Motor			A	luminum Fran	ne			1







Suction Capacity							
Type 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  $15^{\circ}$ C service water and  $20^{\circ}$ 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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