



ACP 120 G / ACG 600 G

Dry pumps for industrial applications

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Dry pumps for industrial applications

ACP 120 G

Based on the tens of thousands of semiconductor process pumps installed worldwide, the ACP 120 G provides the advantages of the multi-stage Roots pumps in industrial and research & development applications as well as whenever particulate or oil contamination is an issue.

Clean and efficient

There is no risk of particulate contamination due to the frictionless and oil-free pumping module of the ACP 120 G. Its high pumping speed, low power consumption, low ultimate pressure and resistance to harsh cycling are further advantages of the pump.

Unrivaled long maintenance intervals of up to four years in light duty applications without disruptions provide for maximum uptime.

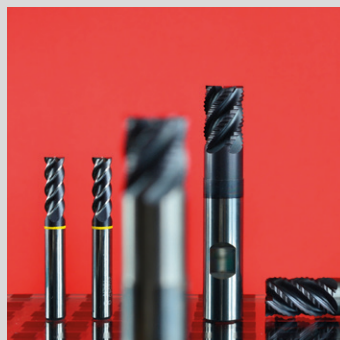
Purge use

The ACP 120 G pumps are equipped with a purge gas port for slightly corrosive processes or for pumping down condensable media.

ACG 600 G

For higher pumping speed requirements, the ACG 600 G pumping group combines the ACP 120 G dry pump with a 600 m³/h Roots pump.

This combination is a direct dry replacement for lubricated backing pumps and pumping systems in many industrial systems; e.g. in the coating technology.



Coating



Freeze drying



Glass coating



Customer benefits

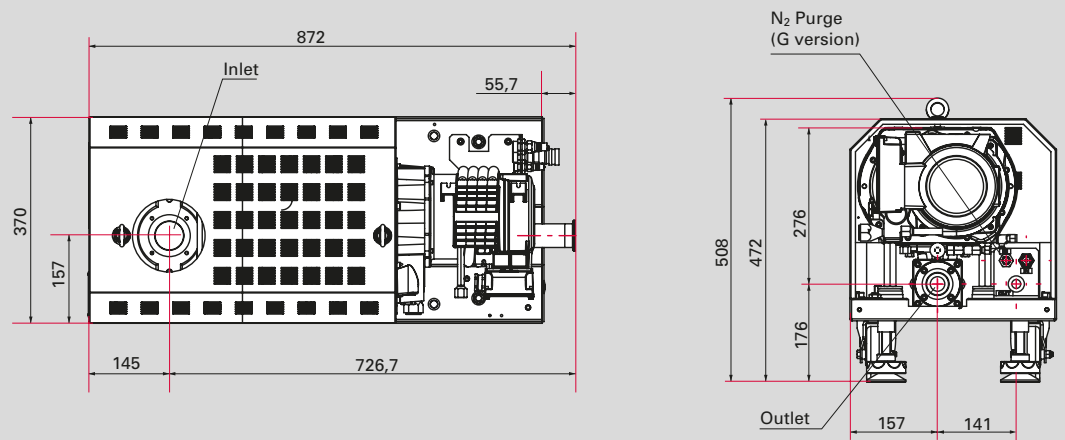
- Cleanliness – No risk of particulate contamination due to frictionless and oil-free pumping module
- High performance – High pumping speed, low power consumption, low ultimate pressure, resistant to harsh cycling
- High reliability – Based on multi-stage Roots technology, resulting in optimum up-time
- Extended life time between maintenance – Typical four years interval between complete overhaul on clean applications, simple bearing replacement

ACP 120 G/ACG 600 G

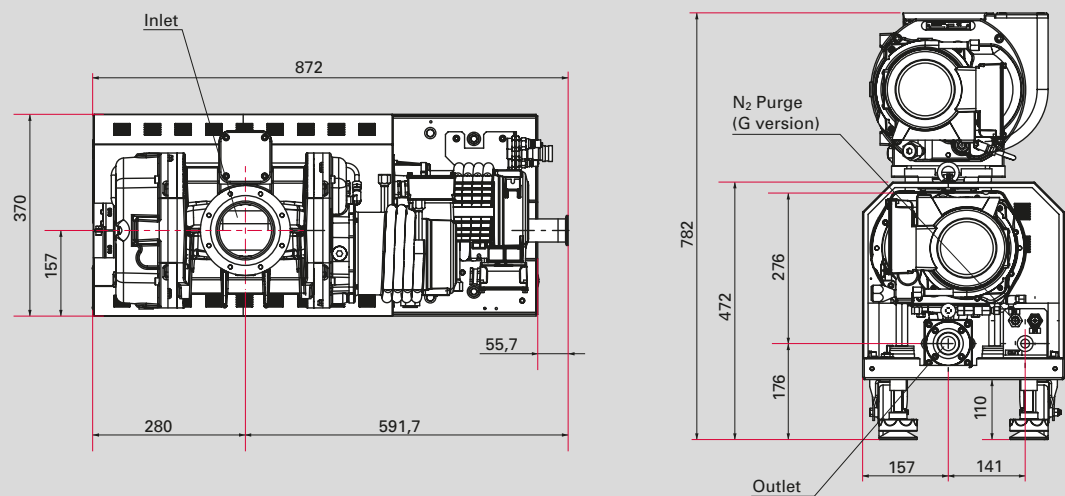
Dimensions and pumping speed

Dimensions

ACP 120 G



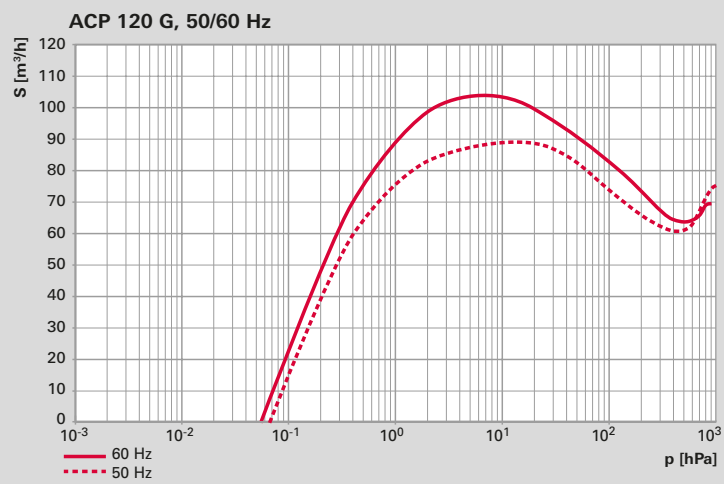
ACG 600 G



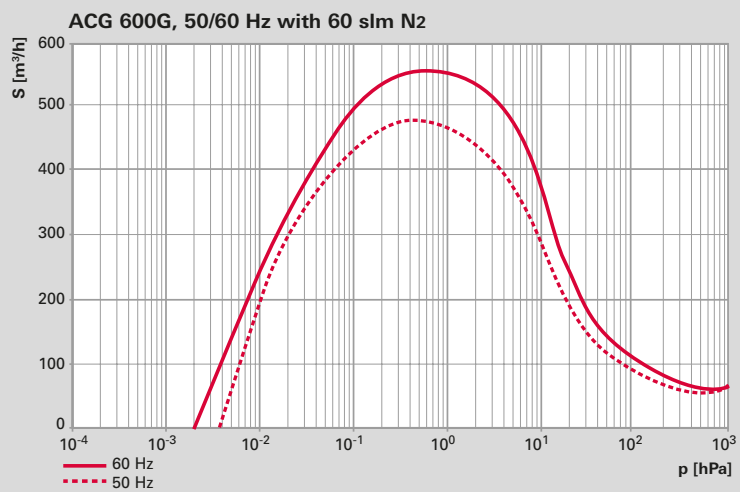
Dimensions in mm

Pumping speed

ACP 120 G



ACG 600 G



ACP 120 G/ACG 600 G

Technical data and order numbers

Technical data ACP 120 G

Technical data	ACP 120 G	ACP 120 G large volumes
Flange (out)	DN 40 ISO-KF	DN 40 ISO-KF
Flange (in)	DN 50 ISO-KF	DN 50 ISO-KF
Dimensions (L x W x H)	872 x 370 x 472 mm	872 x 370 x 472 mm
Frequency	50-60 Hz	50-60 Hz
Weight	213 kg	213 kg
Cooling	Water	Water
Power consumption at ultimate pressure, 50 Hz	1.3 kW	1.3 kW
Power consumption at ultimate pressure, 60 Hz	1.5 kW	1.5 kW
Noise level, max.	65 dB (A)	65 dB (A)
Continuous inlet flow, max.	80 slm	80 slm
Cooling water flow, min.	1 l/mn	1 l/mn
Power supply voltage, 3 phase	200-230 V; 380-480 V	200-230 V; 380-480 V
Pumping speed at 50 Hz	95 m ³ /h	112 m ³ /h
Pumping speed at 60 Hz	112 m ³ /h	112 m ³ /h
Typical ultimate pressure with N ₂ purge, 50 Hz	3 · 10 ⁻¹ hPa	1 · 10 ⁻¹ hPa
Typical ultimate pressure with N ₂ purge, 60 Hz	1 · 10 ⁻¹ hPa	1 · 10 ⁻¹ hPa
Volume size, max.	1 m ³	10 m ³
Ambient temperature	5 to 40 °C	5 to 40 °C

Accessories		
Inlet pipe, DN 50 ISO-KF	106308	106308
Isolation valve, DN 50 ISO-KF, manual	30501M	30501M

Order number matrix ACP 120 G

Order number

ACP120G SP **a** **1** **b** **c** **1**

Inlet	a
without inlet spool	1
with DN 50 ISO-KF spool	2
Silencer	b
standard	1
drainable	2
Frequency converter	c
without	1
with – Low voltage (60 Hz large volume)	2
with – High voltage (60 Hz large volume)	3

Technical data
ACP 600 G

Technical data	ACG 600 G	ACG 600 G large volumes
Flange (out)	DN 40 ISO-KF	DN 40 ISO-KF
Flange (in)	DN 100 ISO-K	DN 100 ISO-K
Dimensions (L x W x H)	872 x 370 x 782 mm	872 x 370 x 782 mm
Frequency	50–60 Hz	50–60 Hz
Weight	320 kg	320 kg
Cooling	Water	Water
Power consumption at ultimate pressure, 50 Hz	1.8 kW	2 kW
Power consumption at ultimate pressure, 60 Hz	2 kW	2 kW
Noise level, max.	68 dB (A)	68 dB (A)
Continuous inlet flow, max.	60 slm	60 slm
Cooling water flow, min.	1 l/mn	1 l/mn
Power supply voltage, 3 phase	200-230 V; 380-480 V	200-230 V; 380-480 V
Pumping speed at 50 Hz	480 m ³ /h	560 m ³ /h
Pumping speed at 60 Hz	560 m ³ /h	560 m ³ /h
Typical ultimate pressure with N ₂ purge, 50 Hz	1 · 10 ⁻² hPa	6 · 10 ⁻³ hPa
Typical ultimate pressure with N ₂ purge, 60 Hz	6 · 10 ⁻³ hPa	6 · 10 ⁻³ hPa
Volume size, max.	1 m ³	10 m ³
Ambient temperature	5 to 40 °C	5 to 40 °C

Accessories		
Isolation valve, DN 100 ISO-KF, manual	30503M	30503M

Order number matrix
ACG 600 G

Order number

ACG600G | SP | 1 | 1 | a | b | 1

Silencer	a
standard	1
drainable	2

Frequency converter	b
without	1
with – Low voltage (60Hz large volume)	2
with – High voltage (60Hz large volume)	3

Notes:

- a) Use of purge is recommended for pumping small amounts of condensable or corrosive gases. It includes a N₂ purge circuit with injection points.
- b) With ACP 120 G frequency converter option, the maximum volume to be evacuated (not cycling) is 10 m³ without ACP 120 G frequency converter option, the maximum volume to be evacuated (not cycling) is 1 m³.

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All data subject to change without prior notice. PM 0008 PEN (May 2018/6)

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