



GENERAL PURPOSE DRY PUMPS
ACP 120 SERIES



ACP 120 SERIES

The right choice for a wide range of applications

Successfully installed worldwide in the Semiconductor industry for over ten years, the Alcatel multi-roots technology is now available for other market segments.

ACP 120 series pumps offer an attractive combination of pumping speed and ultimate pressure for many R&D and industrial applications.

ACP 120 series pumps will bring the benefits of clean and dry vacuum whenever particulate or oil contamination is an issue.

ACP 120 standard version is designed for non-corrosive applications.

ACP 120 G version is suitable for pumping traces of corrosive gases or condensable vapours.



ACP 120

ACG 600



R&D accelerator



Glass coating

Typical applications

- Glass coating
- Other coaters
- General R&D applications
- Metallurgy
- Cylinder evacuation
- Foreline pumping of Roots blowers
- Freeze drying
- Leak detection systems

Focused on reliability, cleanliness and performances

CLEANLINESS

No risk of particulate contamination due to frictionless and oil-free pumping module.

HIGH PERFORMANCE

- Low power consumption
- High pumping speed
- Low ultimate pressure
- Resistant to harsh cycling

HIGH RELIABILITY

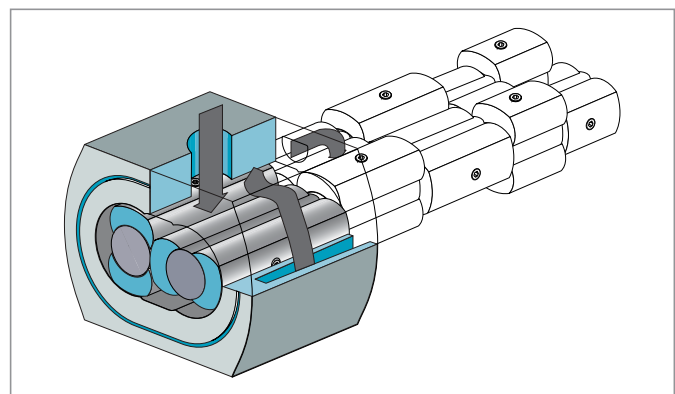
5 stages Roots design, field proven on many applications, resulting in optimum up-time.

EASY MAINTENANCE

- Extended time between maintenance
- Typical 4 years interval between complete overhaul for clean applications
- Simple bearing replacement



Leak detection systems



Multi-Roots technology

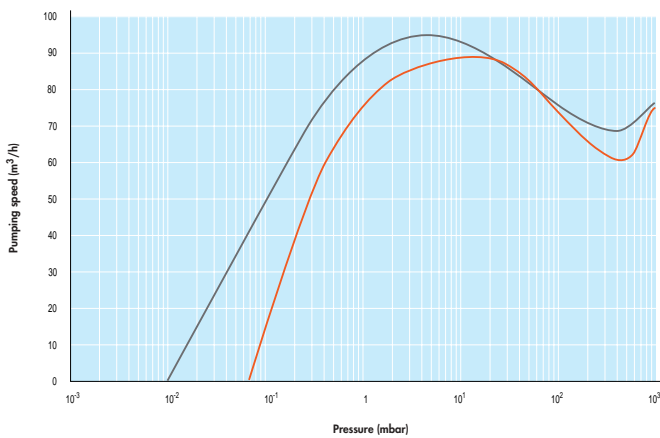
ACP 120 SERIES

Technical specifications

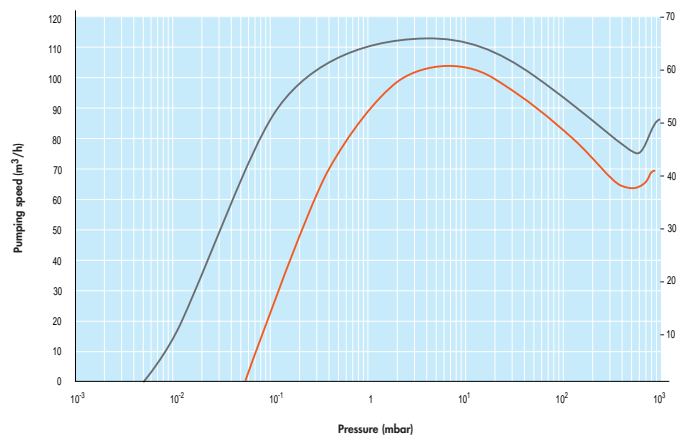
Description		Units	ACP 120	ACP 120 G
Peak pumping speed	50/60 Hz	m ³ /h	95/112	
	50/60 Hz	cfm	56/66	
Ultimate pressure	50/60 Hz	mbar	3.10 ² /1.5 10 ²	
	50/60 Hz	Torr	2.2 10 ² /1.1 10 ²	
Ultimate pressure	50/60 Hz	mbar	NA	9.10 ² / 5.10 ²
	50/60 Hz	Torr		6.7 10 ² / 3.7 10 ²
Max continuous inlet pressure		mbar	200/150	
	50/60 Hz	Torr	150/110	
3ph power supply range			LV : 200/208V - 230 V 50/60 Hz HV : 380/415 V 50 Hz / 460/480 V 60 Hz	
Power at ultimate pressure	50/60 Hz	kW	1.3/1.5	
Water cooling flow		L/h	60 minimum	
Ambient temperature		°C	5 to 40	
Inlet port Interface		ISO-KF	DN50	
Exhaust port		ISO-KF	DN40	
Noise level		dB(A)	65	
Dimensions : L x W x H		mm	872 x 370 x 505	
Weight		kg	205	
Max volume to be pumped	50/60 Hz	m ³	5/2	

Pumping speed 50 Hz

Pumping speed 60 Hz

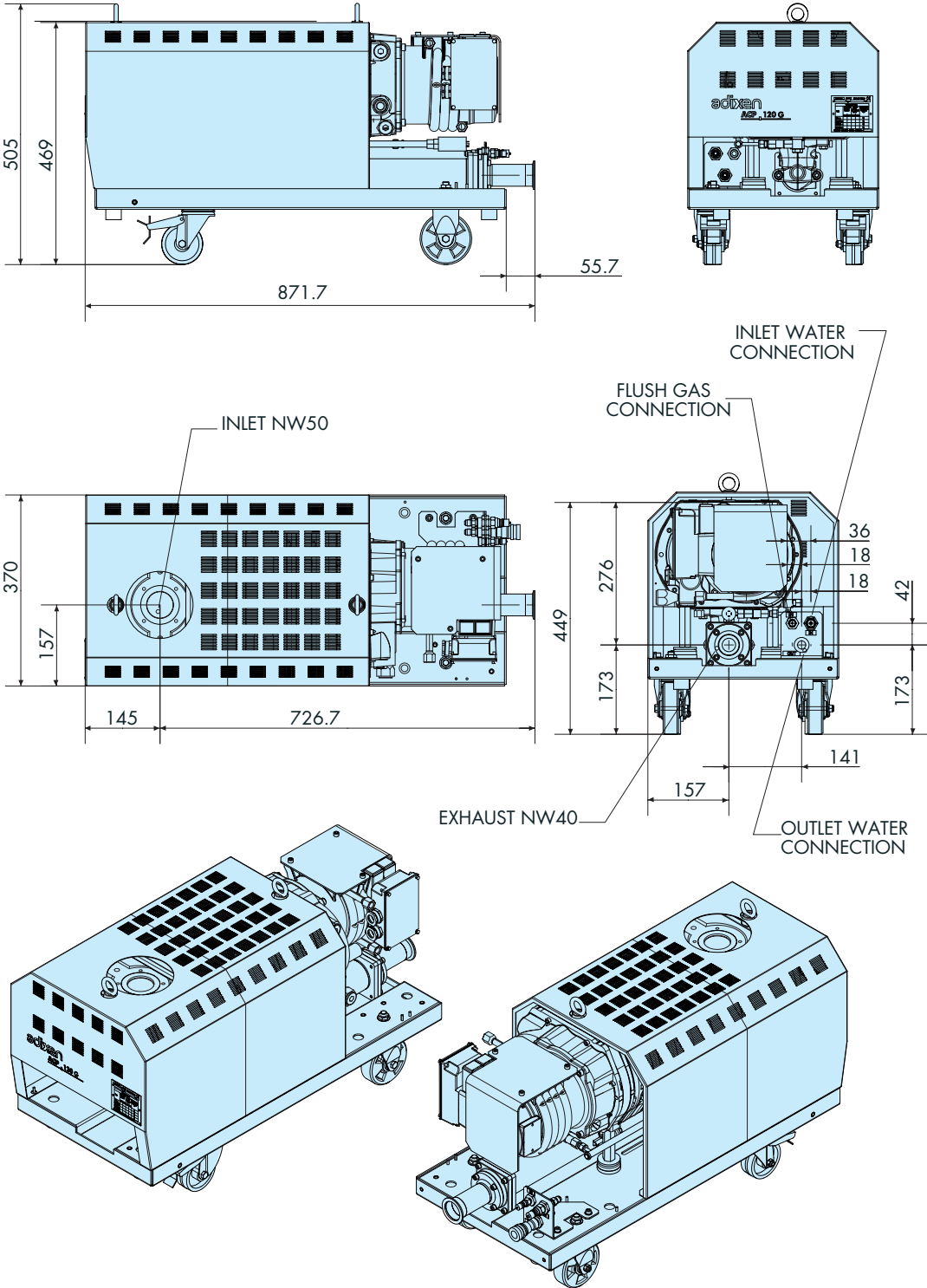


— ACP 120 standard version 50 Hz
— ACP 120 G version 50 Hz (50 slm purge)



— ACP 120 standard version 60 Hz
— ACP 120 G version 60 Hz (50 slm purge)

Outline drawings (dimensions in mm)



ACP 120 SERIES

ACG 600 Dry Pumping Group

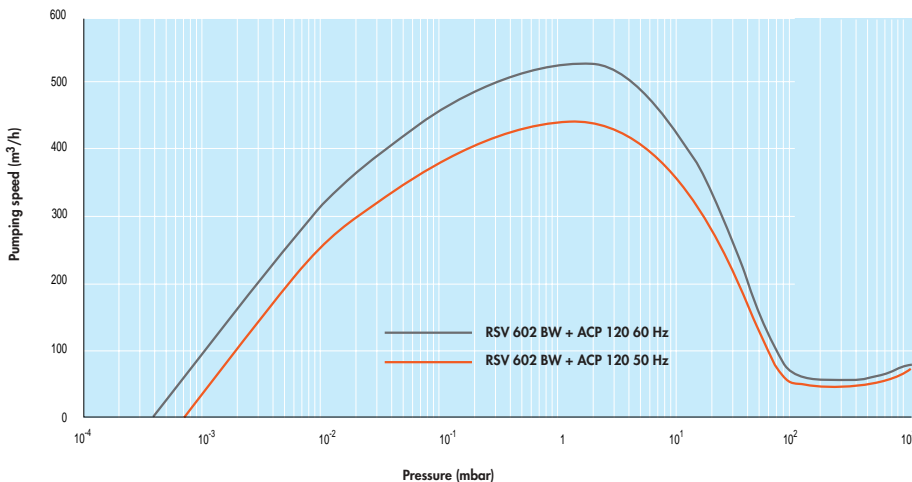
For applications requiring higher pumping speed, ACP 120 pumps can be combined with conventional Roots blowers. Such dry pumping packages feature ACP 120 or ACP 120G pumps associated with RSV 602BW Roots pumps.

Specifications ACG 600

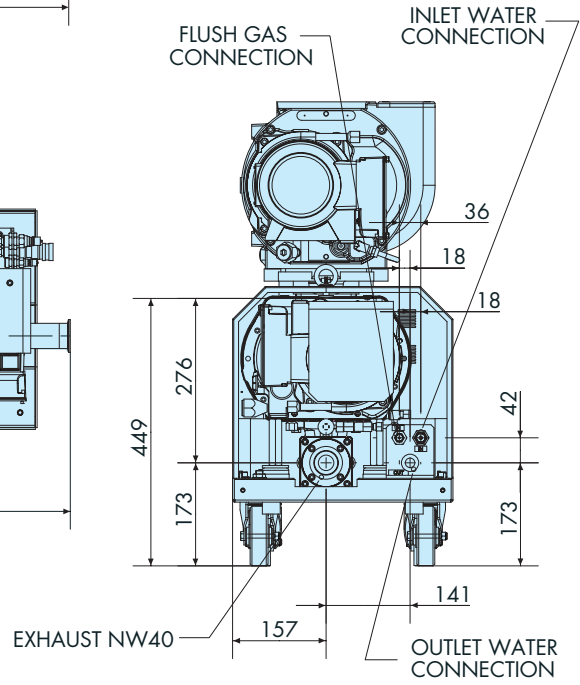
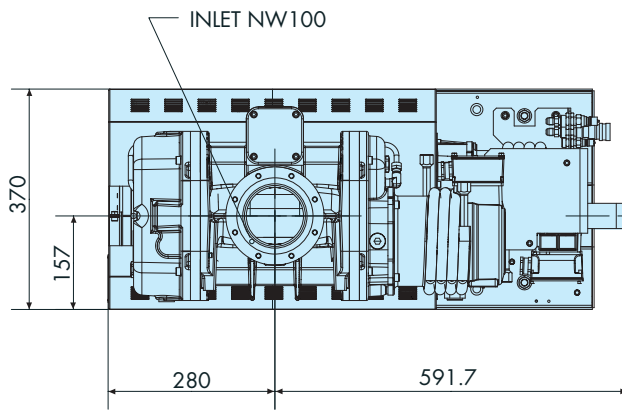
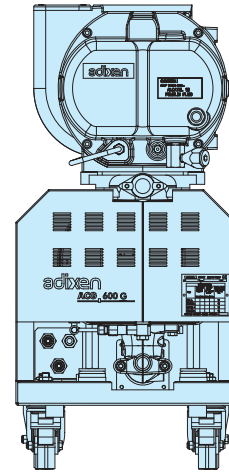
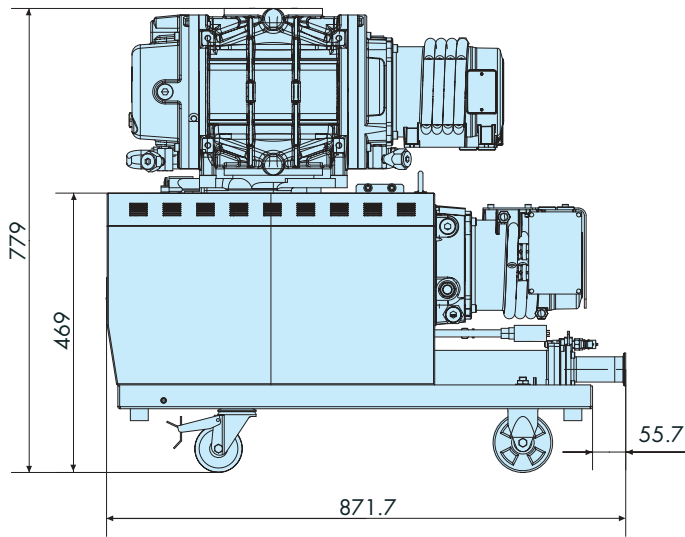
Water cooled | ACP 120
ACP 120 G } + Roots 602BW

Description	Units	ACG 600 Std
		ACG 600 G
Peak pumping speed at 50/60 Hz	m ³ /h cfm	480/560 282/329
Max. Ultimate pressure (no purge) at 50 Hz	mbar torr	2 x 10 ⁻³ 1.5 x 10 ⁻³
Max. Ultimate pressure (35 SLM purge) at 50 Hz	mbar torr	9 x 10 ⁻³ 6.7 x 10 ⁻³
Max. Ultimate pressure (no purge) at 60 Hz	mbar torr	9 x 10 ⁻⁴ 6.7 x 10 ⁻⁴
Max. Ultimate pressure (35 SLM purge) at 60 Hz	mbar torr	6 x 10 ⁻³ 4.5 x 10 ⁻³
Inlet flange	ISO-DN	100
Outlet flange	ISO-DN	40
Power at ultimate pressure	50/60 Hz kW	1.8/2
Motor rating	kW	3
Cooling water, quick connectors		1/4" NPT
Cooling water (minimum)	l/mn gal/mn	1 0.26
Dimensions	L mm (inch)	872
	W mm (inch)	370
	H mm (inch)	779
Weight	kg/lb	320

Pumping speed 50 Hz - 60 Hz



Outline drawings (dimensions in mm)



ACP 120 SERIES

ACG 600 Dry Pumping Group

Ordering information

Type	Pumps	ACP 120 version	ACP 120 Motor	ACP 120 inlet	Cables	Option 1	Option 2	Option 3
AC	P120 : ACP 120 pump G600 : ACP 120 and RSV 602B Roots pumps	S : standard version G : G version	SP : standard 3ph motor	1 : without inlet spool 2 : with DN50 ISO-KF spool*	1 : without cable	1 : without	1 : without	1 : without

* : for ACG 600 code 1 is the only choice

Example 1

AC	P120	G	SP	2	1	1	1	1
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ACP120GSP21111 : ACP 120 pump, G version with standard motor and DN50 ISO-KF inlet spool.

Example 2

AC	G600	S	SP	1	1	1	1	1
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ACG600SSP11111 : Pumping package : RSV 602B and ACP 120 standard version with standard motor.



ACG 600

Accessories

Description	PART NUMBER
DN50 ISO-KF inlet spool Stainless steel - 129 mm	106308
Manual isolation valve DN50 ISO-KF Stainless steel	30501M
Electro-Pneumatic isolation valve 24VAC DN50 ISO-KF Stainless steel	30501E



P/N 106308 - DN50 ISO-KF inlet spool
Stainless steel - 129 mm

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