



Adixen by Alcatel Vacuum Technology

➤ Compact Dry Roughing Pumps

ACP 28 series / ACP 40 series

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The final evolution in small dry pumping

The ACP 28/40 design incorporates the Alcatel multi-stage Roots type pumping concept, extensively field proven in the most difficult processes. The ACP 28/40 pumps feature a frictionless pumping module, optimized for operation without internal lubricant.

The benefits of this new evolution are important for applications requiring high levels of cleanliness and reliability.

Alcatel Clean Pumps from the ACP 28/40 series will bring added value to each of these applications.



ACP 28/40 standard version

Designed for non-corrosive applications

- Analytical instruments:
 - Electron microscopes
 - Surface analysers
 - Leak detectors
 - Spectrometers
- R&D: particle accelerators and laboratories
- Industrial: light bulbs
- Load Locks of clean processes

ACP 28/40 G version

Specially designed for pumping traces of corrosive gases with an inert gas purge protecting the bearings. G version is recommended for applications such as :

- Process monitoring
- Focused ion beam
- Load Locks and transfer chambers

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Focus on Reliability, Cleanliness and Performances

No particulate generation

Thanks to the frictionless design, there is no wearing parts in the path of pumped gases and therefore no particulate generation.

No Hydrocarbon vapors Backstreaming

ACP 28/40 series pumps are free of lubricant inside the pumping module; giving benefit of no hydrocarbon vapors backstreaming.

Constant Performances

Thanks to constant internal clearances and constant rotational speed (frequency converter driven motor) the ACP 28/40 pumps will provide:

- constant pumping speed
- constant ultimate pressure

High Reliability

Thanks to the Alcatel expertise in the design of dry multi-stage Roots pumps, used in the most demanding applications.

Low Maintenance Costs

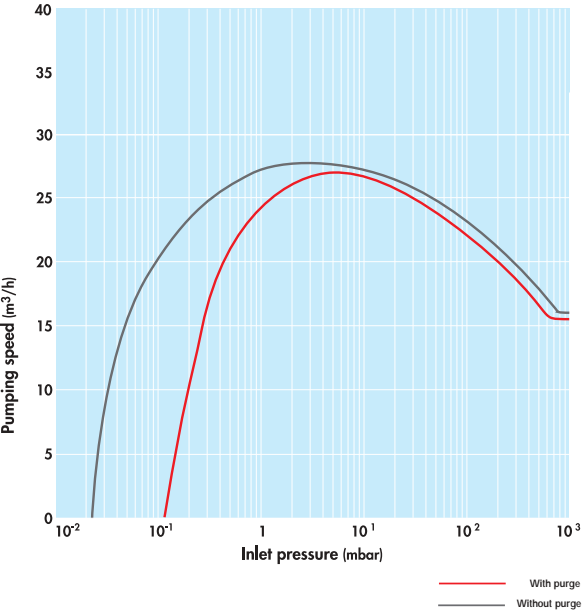
Field serviceable, the ACP 28/40 series pumps require a complete overhaul only every 22 000 hours.



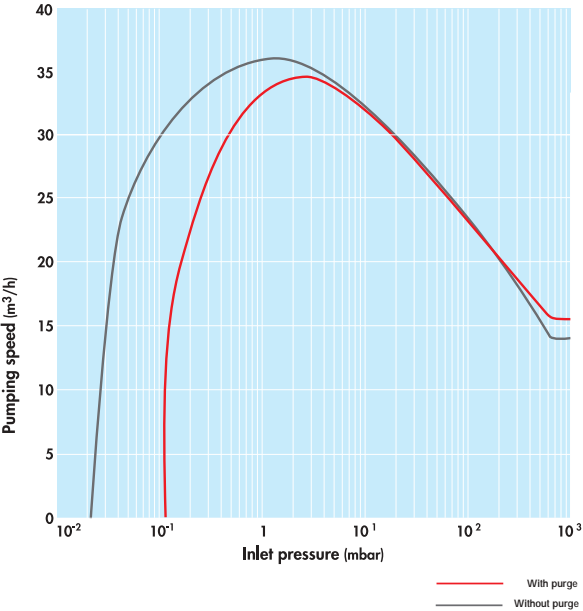
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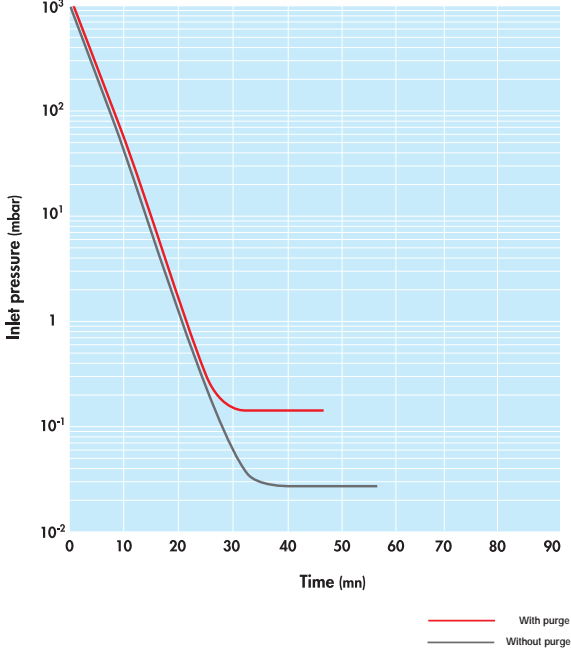
Pumping speed (m³/h) - ACP 28 and ACP 28 G



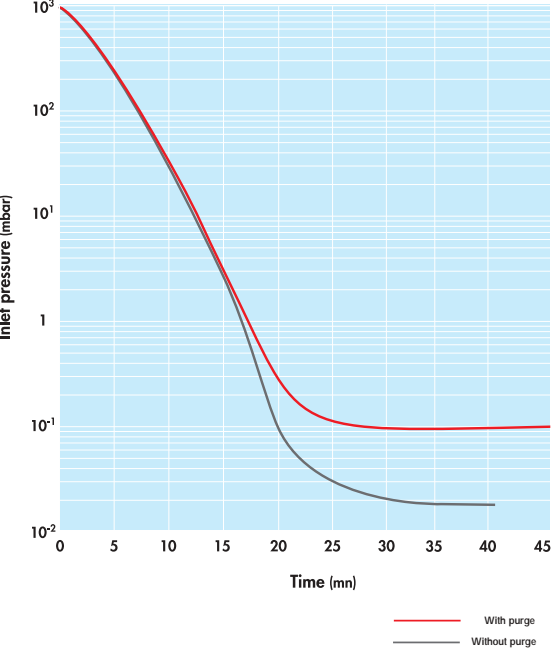
ACP 40 and ACP 40 G



Pressure drop (volume = 1 m³) - ACP 28 and ACP 28 G



ACP 40 and ACP 40 G



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Specifications

Descriptions	Units	ACP 28	ACP 28 G	ACP 40	ACP 40 G
Peak pumping speed	m ³ /h CFM	27 16		37 22	
Ultimate pressure w/o purge	mbar	3.10 ⁻²		3.10 ⁻²	
Ultimate pressure With ...sccm purge	mbar		1.10 ⁻¹ 1650		1.10 ⁻¹ 1650
Maximum continuous inlet pressure	mbar	1013		1013	
Input voltage		90 V to 254 V - 50/60 Hz		90 V to 254 V - 50/60 Hz	
Power consumption - at ultimate pressure - atmosphere	W	700 1200		700 1200	
Ambient temperature	°C	10 to 40		10 to 40	
Inlet port	ISO-KF	DN 25		DN 40	
Exhaust port	ISO-KF	DN 25		DN 25	
Tightness	mbar.l/s	< 5.10 ⁻⁷		< 5.10 ⁻⁷	
Port for N2 purge			1/4" G		1/4" G
Weight	kg	33.5	35	38	40.5
Overall dimensions : L x W x H	mm	610 x 185 x 310		634 x 185 x 310	



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Outstanding features



¥ **Featuring an integrated single-phase frequency converter,**

the ACP 28/40 pumps can be powered in the range of:

- 100V to 230V 50/60 Hz (nominal)
- through a standard IEC connector
- with automatic voltage range selection

Rotational speed and pumping speed remain constant regardless of voltage and frequency.

¥ **Digital timer** gives the information about cumulated hours of operation which is essential information for maintenance issues.

¥ **Remote control**

The pump can be operated in remote control mode, using the Sub-D Connector located at the rear side.

¥ **Compact design** for easy integration

¥ **Air cooling:** no water supply required.

Ordering information

ACP 28/40 series pumps

Type	Series	Option	Power cord (2 m)
V3: ACP 28 V4: ACP 40		W for ACP 28	
		C	
X	XX	X	X

Examples: p/n : V3GAWJ
V4SACA



Maintenance

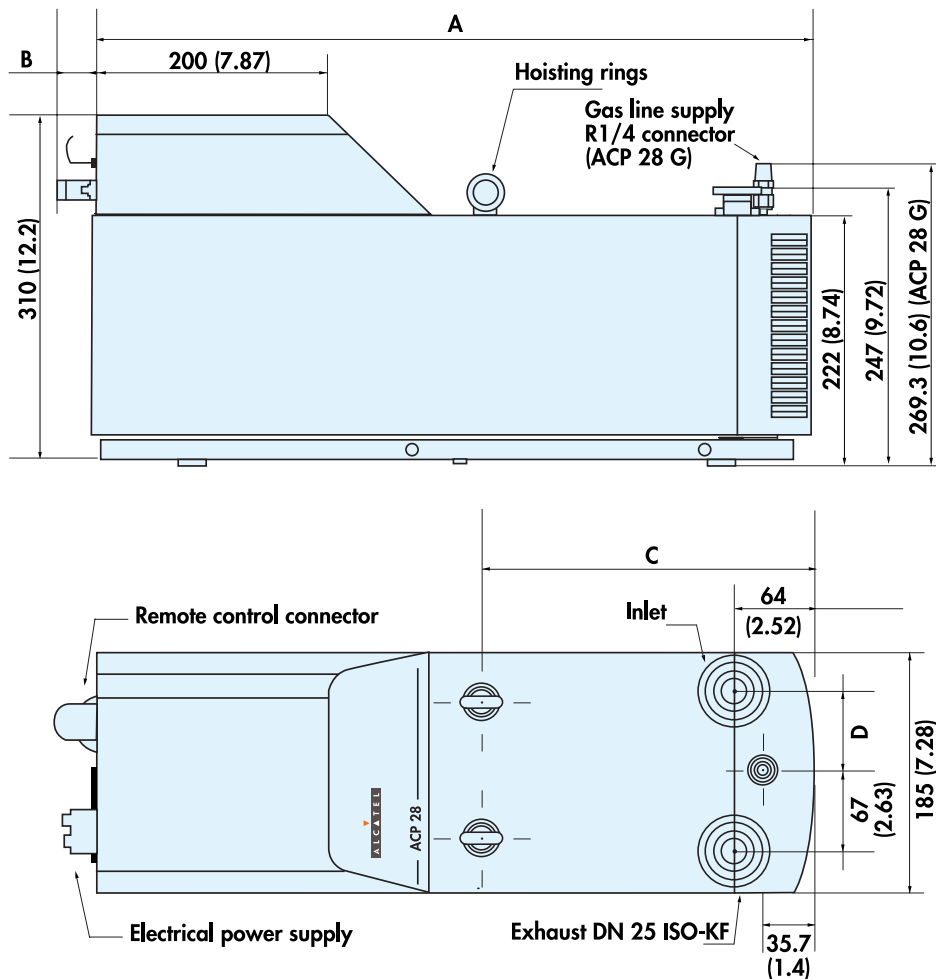
Description	PART NUMBER
Maintenance kit Includes all necessary parts for complete overhaul.	109350
Tool kit Includes all necessary specific tools for performing overhaul.	104642

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Outline drawings

	ACP 28 / ACP 28 G	ACP 40 / ACP 40 G
A	610	634
B	35	35
C	277.7	300.7
D	63.5	60
Inlet	DN25 ISO-KF	DN40 ISO-KF



Dimensions : mm (inch)