



Pfeiffer ACP-15, 28, 40

Technical Specifications

Description	Unit	ACP 15	ACP 28	ACP 40
Pumping speed, max.	m ³ /h	14	27	37
	cfm	8.2	16	22
Ultimate pressure without purge gas ¹⁾	mbar	3 · 10 ⁻²	3 · 10 ⁻²	3 · 10 ⁻²
	torr	2.2 · 10 ⁻²	2.2 · 10 ⁻²	2.2 · 10 ⁻²
Ultimate pressure with ²⁾ purge gas ¹⁾	mbar	0.1	0.1	0.1
	torr	7.5 · 10 ⁻²	7.5 · 10 ⁻²	7.5 · 10 ⁻²
Ultimate pressure with open gas ballast ¹⁾	mbar	0.1	0.1	0.1
	torr	7.5 · 10 ⁻²	7.5 · 10 ⁻²	7.5 · 10 ⁻²
Maximum continuous inlet pressure	mbar	1,013	1,013	1,013
	torr	750	750	750
Max. pure water vapor tolerance (measured) with open gas ballast (SD version)	g/h	80	120	120
Power supply				
1-phase			100-230 V +/-10 %, 50/60 Hz	
3-phase			200-440 V +/-10 %, 50/60 Hz	
Power consumption ¹⁾				
at ultimate pressure	W	450	700	700
at atmosphere	W	550	1,050	1,050
Ambient temperature	°C		12 to 40	
	°F		54 to 104	
Flange in	ISO-KF	DN 25	DN 25	DN 40
Flange out	ISO-KF	DN 16	DN 25	DN 25
Max. Helium leak rate	mbar l/s	< 5 · 10 ⁻⁷	< 5 · 10 ⁻⁷	< 5 · 10 ⁻⁷
Weight	kg	23	30	32
	lbs	51	66	70.5
Overall dimensions (L x W x H)				
1-phase motor	mm	514 x 190 x 270	647 x 193 x 322	647 x 193 x 322
	inches	20.2 x 7.5 x 10.6	25.4 x 7.6 x 12.6	25.4 x 7.6 x 12.6
3-phase motor	mm	497 x 190 x 266	612 x 187 x 314	612 x 187 x 314
	inches	19.5 x 7.5 x 10.4	24.1 x 7.36 x 12.3	24.1 x 7.36 x 12.3

¹⁾ typical values obtained after minimum 1 hour of pump warm up time

²⁾ 5,000 sccm for ACP 15; 3,700 sccm for ACP 28/40

³⁾ relative nitrogen pressure 300 mbar





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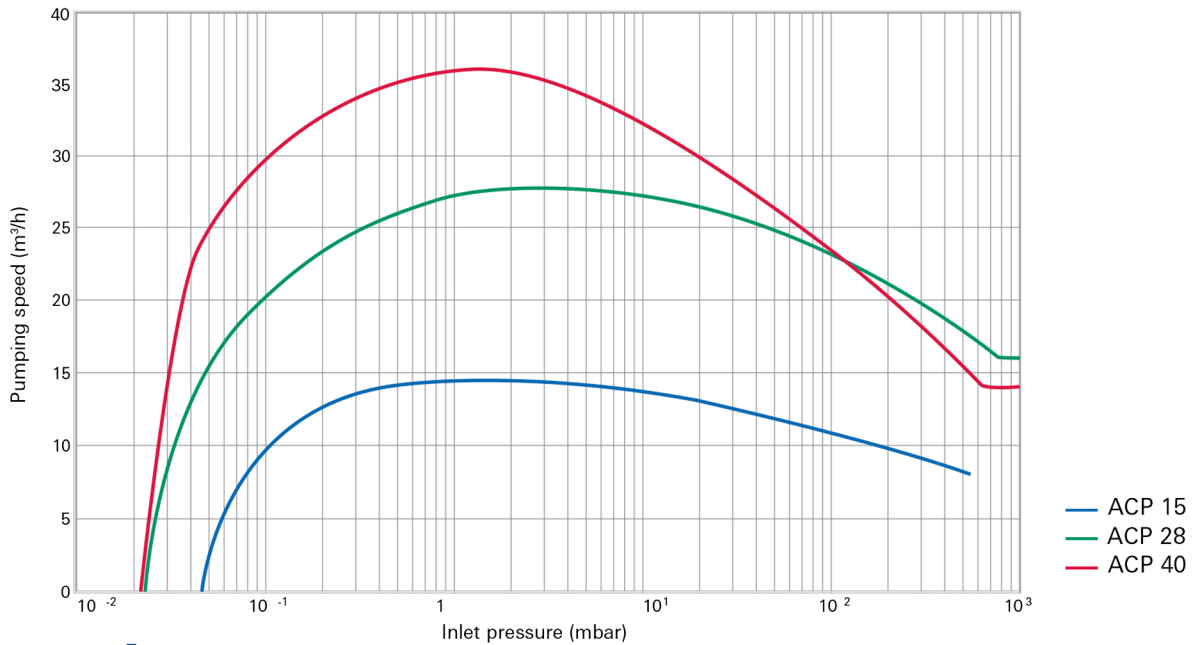
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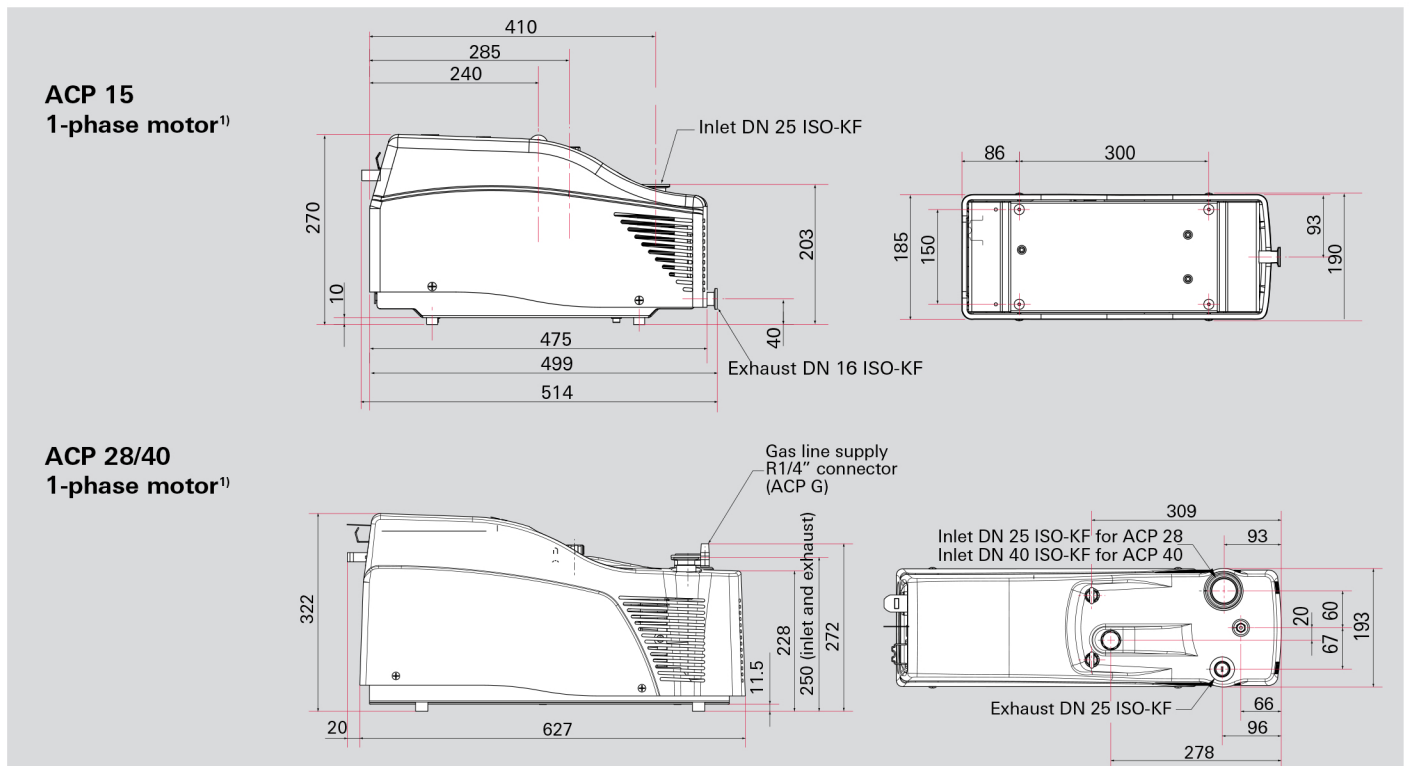
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Pumping Curves



Dimensions





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Features & Benefits

- no particle contamination
- high reliability
- air-cooled
- constant performances
- low maintenance costs
- condensable vapor ability
- ideal replacement for scroll and oil-sealed pumps
- several gas port options, including purge gas & gas ballast
- unsurpassed long-term stability and high reliability in even the most demanding applications
- designed for applications that require pumping of clean (dust-free) and non-corrosive gases

Applications

- analytical instruments • electron microscopes • surface analyzers • leak detectors • mass spectrometers • optical spectrometers • research and development • particle accelerators • turbo pumping stations • load-lock • laboratories • industry • lamp manufacturing • vacuum coating
- cryo pumps regeneration • plasma cleaning • drying