



Alcatel AMD-1

Technical Specifications

Description	units	AMD1	AMD4	AMD4C
Nominal pumping speed	50/60 Hz	m ³ /h	1.2/1.4	3.3/4
	50/60 Hz	cfm	0.7/0.82	1.94/2.36
Ultimate pressure		mbar		< 2
		Torr		< 1.5
Power supply: single-phase				
Voltage range		V	100/120 +5 %/-10 % 50/60 Hz	
			200/230 ±10 % 50/60 Hz	
Nominal motor rating	W	80		200
Max power	W	200		480
Operating ambient temperature	°C/°F	10 to 40 / 50 to 104		10 to 40 / 50 to 104
Noise level	dB(A)	< 50		< 55
Inlet port	ISO-KF	DN16		DN16
Exhaust port (*)		G 1/8"	G 1/4"	DN 16 ISO-KF
Dimensions : L x W x H	mm	303 x 141 x 180		315 x 235 x 176
	inches	12 x 5.55 x 7.1		12.4 x 9.25 x 6.9
Weight	Kg	6.5		15.5
	lb	14.3		34.1

(*) after removing the external silencer

Components	AMD1	AMD4	AMD4C
Housing cover	Aluminium		PFA coating
Head cover	Aluminium		PFA coating
Clamping disc	Aluminium		ETFE
Valve	FPM	6 x FPM	6 x FFKM
	-	2 x PTFE	2 x PTFE
Diaphragm	PTFE/NBR	FPM	PTFE
Inlet port	-	Aluminium	-
Exhaust port	Aluminium/Silicon	Aluminium/PA-PE	SS
Fittings	Anodized aluminium		-
Hose	PE		PTFE



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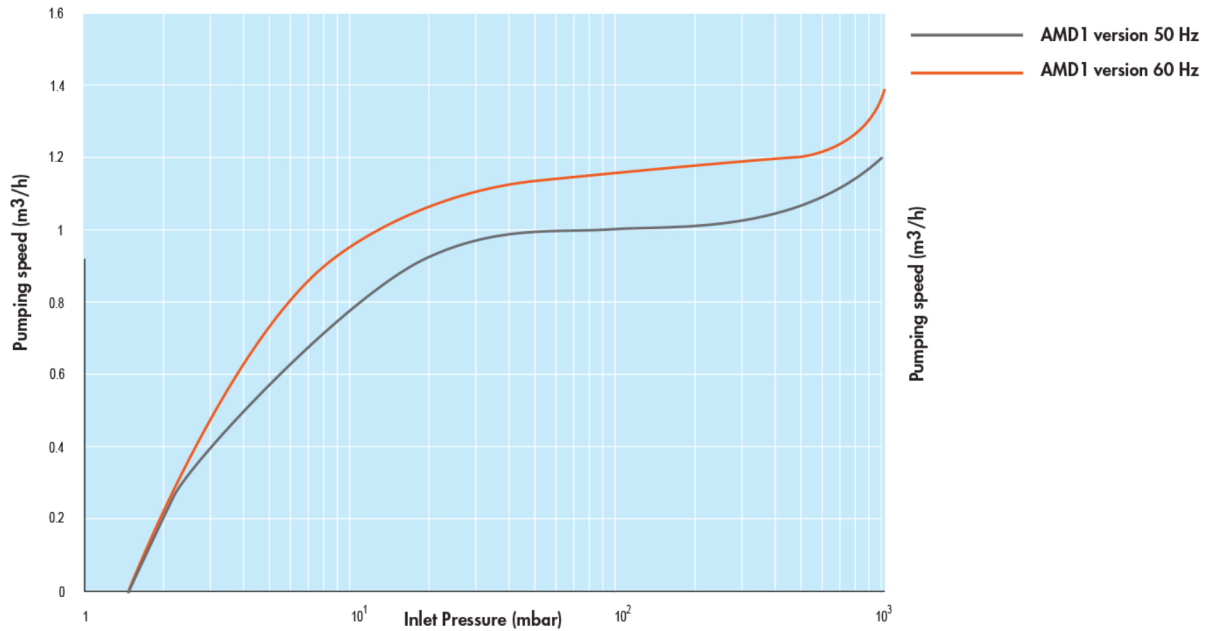
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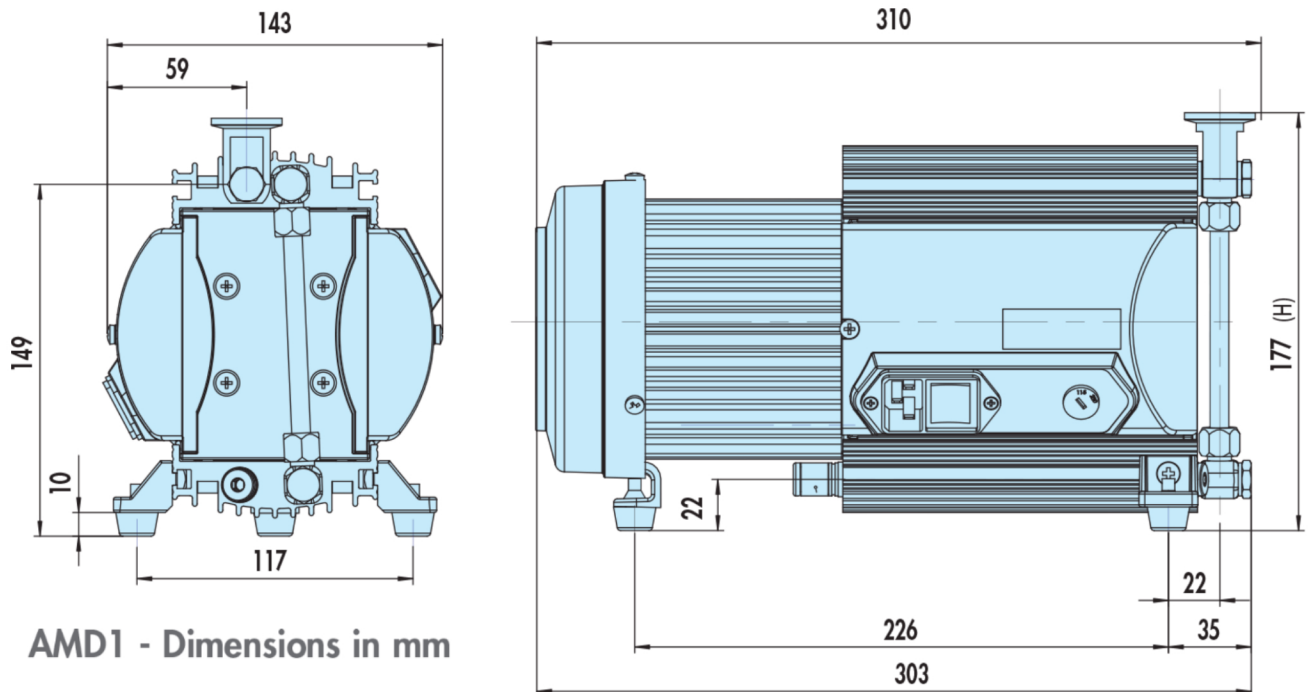
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Alcatel AMD-1 Pumping Curves



Dimensions





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Alcatel AMD-1 Features & Benefits

- high performance in a compact package
- oil-free pumping of gases
- flexible FPM double diaphragm
- three-stage guided planar diaphragm design offers high pumping speeds, even at low pressures
- unrivalled lifetime with constant performance over time
- maintenance free drive mechanism
- easy maintenance for diaphragms & valves
- low noise, vibration, weight
- ideally suited for integration into portable systems

Applications

- leak detectors • gas & surface analyzers • electron microscopes
- backing turbo pumps • cryo pump regeneration • load locks
- research & development

