



Edwards E2M28, E2M30

Technical Specifications

	Hz	Units	E2M28
Vacuum Data			
Peak pumping speed	50	m ³ h ⁻¹	27.5
	60	cfm	19.5
Ultimate pressure w/o gas ballast	50	mbar	1x10 ⁻³
	60	Torr	7.5x10 ⁻⁴
Ultimate pressure with gas ballast	50	mbar	1.5x10 ⁻²
	60	Torr	1.1x10 ⁻²
Ultimate pressure with Fomblin®	50	mbar	1x10 ⁻²
	60	Torr	7.5x10 ⁻³
Water vapour tolerance		mbar	30
		Torr	23
Water vapour capacity		g/h	700

	Hz	Units	E2M28
Motor power	50	kW	0.75
	60	kW	0.90
Nominal rotation speed	50	rpm	1440
	60	rpm	1720
Power connector ⁽¹⁾			IEC EN60320 C19

	Hz	Units	E2M28
Weight		lb	97
		kg	44
Oil type (recommended)			Ultragrade 19
Oil capacity (maximum)		litre	1.5
Oil capacity (minimum)		litre	1.2
Inlet flange			
Exhaust flange ⁽²⁾			Nozzle 15 mm external diameter removable from 3/4 in BSP tapped hole

(1) pumps listed with IEC connector only

(2) PFPE variants are supplied with NW25 outlet connection

(3) approx. noise reduction 7 dB(A)



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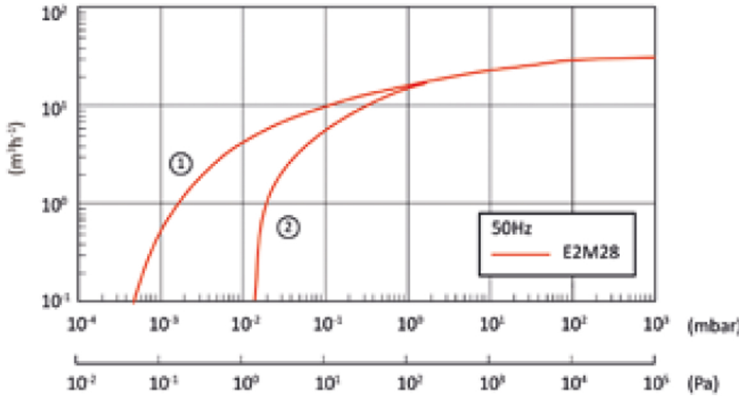
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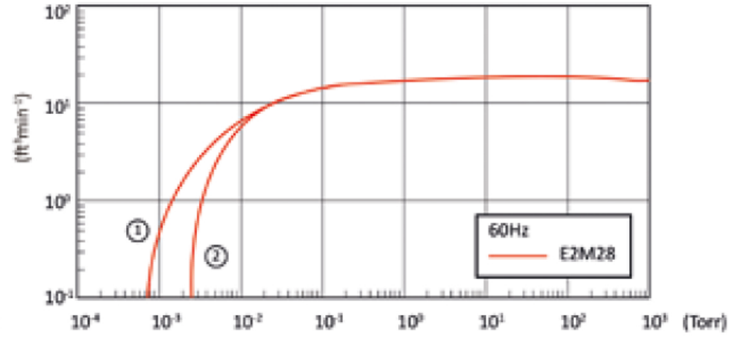
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Edwards E2M28, E2M30 Pumping Curves

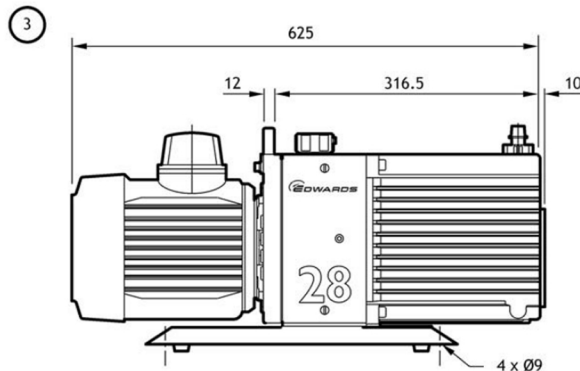
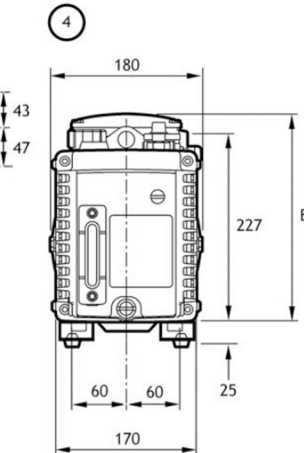
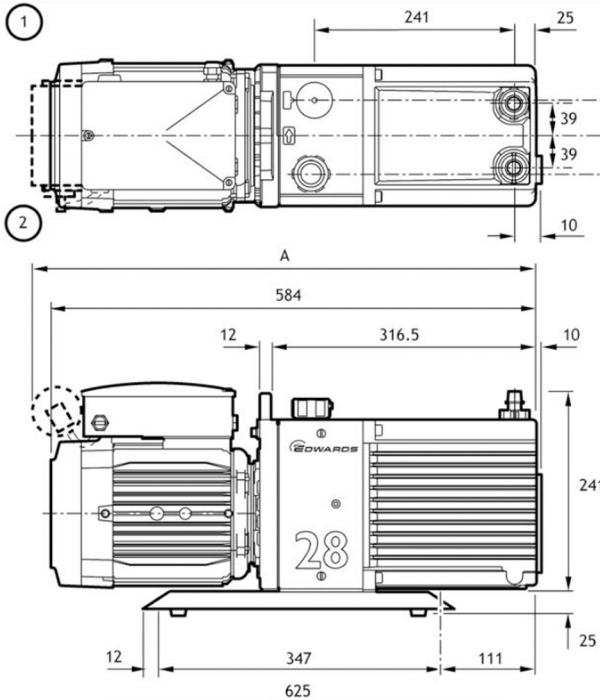
50Hz



60Hz



Dimensions



Pump Item Number	Dimension (mm)	
	A	B
Single-phase motors		
A373-15-903, A373-16-903, A374-15-903	-	251
A373-15-981, A374-15-981	598	251
A373-15-904, A374-15-904	598	251
A373-17-984, A373-25-984	-	251
Three-phase motors		
A373-33-940, A373-33-934, A373-43-940, A373-43-934	-	229

1. Top view of pump with single-phase motor
2. Side view of pump with single-phase motor
3. Side view of pump with three-phase motor
4. Front view of pump with single-phase motor



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Features & Benefits

- designed for reliable, long-term operation
- thermal overload device prevents overheating (1 Phase)
- free-standing unit
- flexible coupling by motor provides drive
- totally enclosed motor cooled with fan
- easy to use controls
- pressure die cast oil box with integral oil seals prevents leaks
- gas ballast valve for large water vapour handling capacity
- air-tight pumping chambers

Applications

- analytical instruments - LCMS • automotive • beam lines & high energy physics • ultra-high speed centrifuges • coating • cryogenics • gel drying • degassing/curing - oil, epoxy resin • distillation/extraction/filtration • freeze drying • furnaces • gas bottle filling/emptying
- glove boxes & ovens • laboratory bench top vacuum • lasers • gas recovery & re-circulation • helium leak detectors • load locks & transfer chambers • refrigeration manufacture • rotary centrifugal evaporators
- solvent recovery • surface science instruments • turbo backing pumps