



Edwards E1M18, E2M18

Technical Specifications

	Hz	Units	E1M18	E2M18
Vacuum Data				
Peak pumping speed	50	m ³ h ⁻¹	17	17
	60	cfm	12.1	12.1
Ultimate pressure w/o gas ballast	50	mbar	3x10 ⁻²	1x10 ⁻³
	60	Torr	2.2x10 ⁻²	7.4x10 ⁻⁴
Ultimate pressure with gas ballast	50	mbar	6.5x10 ⁻¹	1.5x10 ⁻²
	60	Torr	4.8x10 ⁻¹	1.1x10 ⁻²
Ultimate pressure with Fomblin®	50	mbar	3x10 ⁻¹	1x10 ⁻²
	60	Torr	2.3x10 ⁻¹	7.5x10 ⁻³
Water vapour tolerance		mbar	50	20
		Torr	38	15
Water vapour capacity		g/h	650	300

	Hz	Units	E1M18	E2M18
Motor power	50	kW		0.55
	60	kW		0.75
Nominal rotation speed	50	rpm		1440
	60	rpm		1720
Power connector ⁽¹⁾				IEC EN60320 C19

	Hz	Units	E1M18	E2M18
Weight		lb	82	86
		kg	37	39
Oil type (recommended)				Ultragrade 19
Oil capacity (maximum)		litre	1.4	1.05
Oil capacity (minimum)		litre	0.9	0.75
Inlet flange				NW25
Exhaust flange ⁽²⁾				Nozzle 15 mm external diameter removable from 3/4 in BSP tapped hole
Operating temperature range		°C		13-40
Noise level at 50 Hz		dB(A)		57
Noise with acoustic enclosure ⁽³⁾		dB(A)		50

(1) pumps listed with IEC connector only

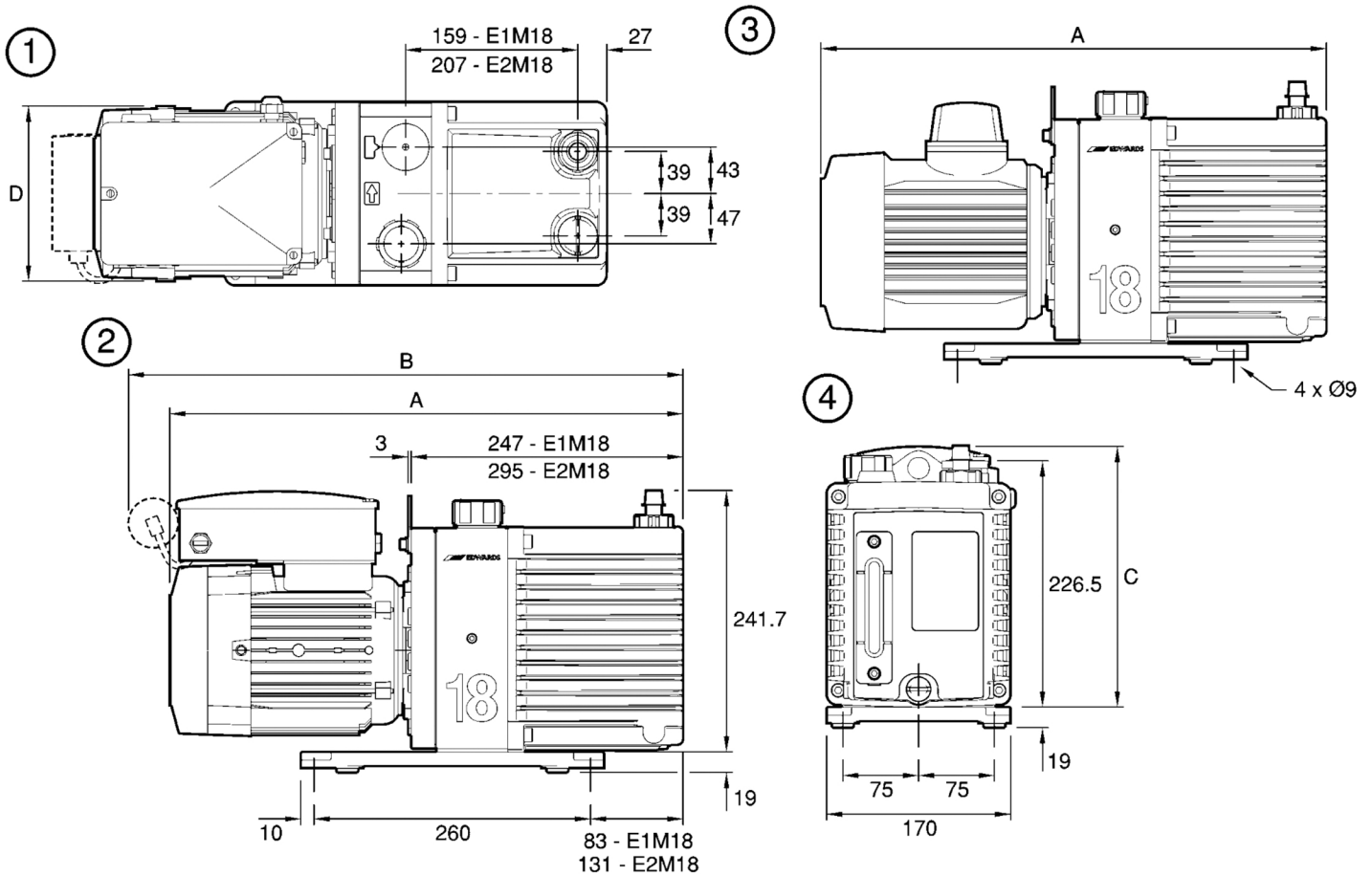
(2) PFPE variants are supplied with NW25 outlet connection

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



Edwards E1M18, E2M18

Dimensions



Pump Item Number	Hz	Dimension (mm)			
		A	B	C	D
Single-phase motors					
A343-15-912	50	518	-	241	162
A363-15-912	50	520	-	241	162
A343-15-920, A363-15-920	50	474	-	241	162
	60	520	-	241	162
A343-15-981	60	474	518	241	162
A363-15-981	60	520	564	241	162
A343-15-904	50/60	474	518	241	162
A363-15-904	50/60	520	564	241	162
A363-15-903, A363-17-984	50/60	550	-	251	183
A343-16-903, A343-15-903, A343-17-984	50/60	504	-	251	183
Three-phase motors					
A343-10-940	50/60	474	-	-	162
A363-10-940	50/60	520	-	-	162

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



PROVAC

SALES

PHONE: 831-462-8900

FAX: 831-462-3536

WWW.PROVAC.COM

Edwards E1M18, E2M18

Features & Benefits

- high ultimate vacuum and rapid pumping speeds
- free standing unit and compact design
- simple installation and quiet operation
- ideal for backing small turbo pumps
- single & two stage design options
- reliable, long term operation
- low surface temperature

Applications

- automotive • beam lines & high energy physics • centrifuges
- coating • cryogenics • degassing/curing oil & epoxy resin
- distillation/extraction/filtration • freeze drying • furnaces • gel drying • laboratory bench top vacuum • helium leak detectors
- load locks & transfer chambers • refrigeration manufacture
- research & development • rotary/centrifugal evaporators
- scanning electron microscopes • solvent recovery • surface science instruments • turbo backing pumps

Pumping Curves

