



# Edwards E1M40, E1M80

## Technical Specifications

		E1M40	E1M80
Maximum Displacement m <sup>3</sup> h <sup>-1</sup>			
50 Hz electrical supply		42.5	80
60 Hz electrical supply		50.5	96
Maximum Speed - Pneuop			
50 Hz electrical supply		37	74
60 Hz electrical supply		44	90
Motor rotational speed			
50 Hz electrical supply		1,410	1,420
60 Hz electrical supply		1,720	1,720
Ultimate vacuum			
without gas-ballast (partial pressure)	mbar Pa	5 x 10 <sup>-2</sup> (5)	5 x 10 <sup>-2</sup> (5)
without gas-ballast (total pressure)	mbar Pa		
with full gas-ballast (partial pressure)	mbar Pa	4 x 10 <sup>-1</sup> (4 x 10 <sup>1</sup> )	4 x 10 <sup>-1</sup> (4 x 10 <sup>1</sup> )
Maximum permitted outlet pressure (at full pump throughput)	bar gauge Pa	0.5 (1.5 x 10 <sup>5</sup> )	0.5 (1.5 x 10 <sup>5</sup> )
Maximum water vapour inlet pressure	mbar Pa	40 (4 x 10 <sup>3</sup> )	30 (3 x 10 <sup>3</sup> )
Maximum water vapour pumping rate	kg h <sup>-1</sup>	1.1	1.7
Maximum gas-ballast flow	m <sup>3</sup> h <sup>-1</sup>	3.5	3.5

Pump	Nominal supply (V)	Frequency (Hz)	Power (kW)	Full load current (A)	Start-up current (A)	Recommended fuse rating (A)*	Electrical supply connection, Figure
E1M40 or E2M40	220-240	50	1.1	4.5	25	15	5
	380-415	50	1.1	2.6	14	10	6
E1M80 or E2M80	220-240	50	2.2	8.5	51	30	5
	380-415	50	2.2	4.9	29	20	6
E1M40 or E2M40	208	50	1.5	6.8	41	25	5
	208-230	60	1.5	6.5	39	25	5
	460	60	1.5	3.1	18.6	15	6
E1M80 or E2M80	208	50	3.0	12.4	71	40	5
	208-230	60	3.0	11.8	71	40	5
	460	60	3.0	5.6	34	20	6

\* You may need to use a different fuse rating. Use the information supplied with your circuit breaker or starter to select the correct fuse rating.



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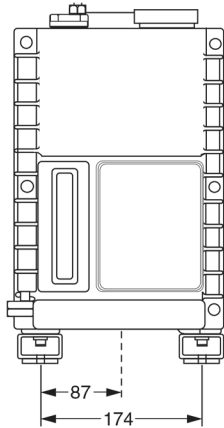
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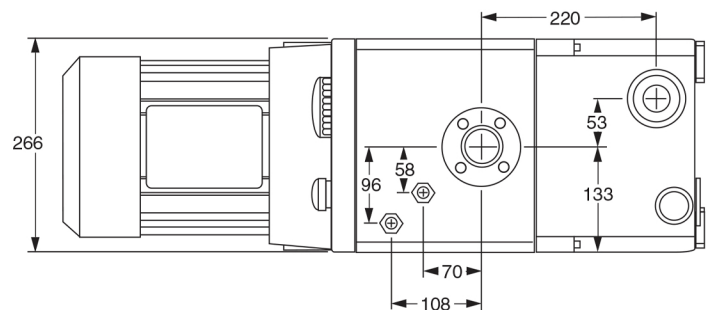
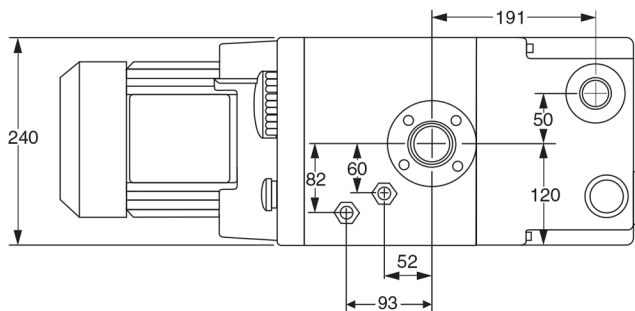
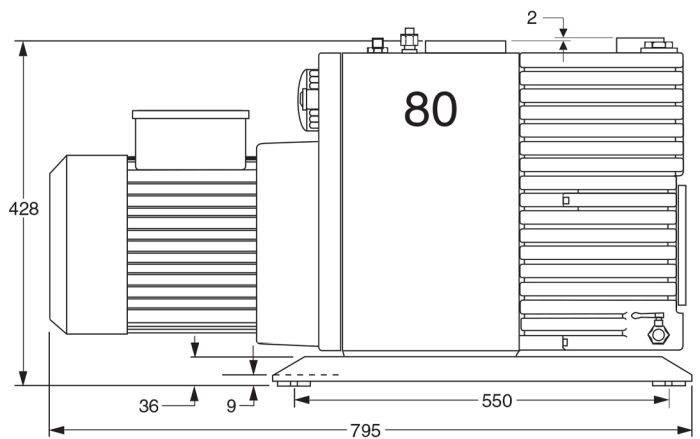
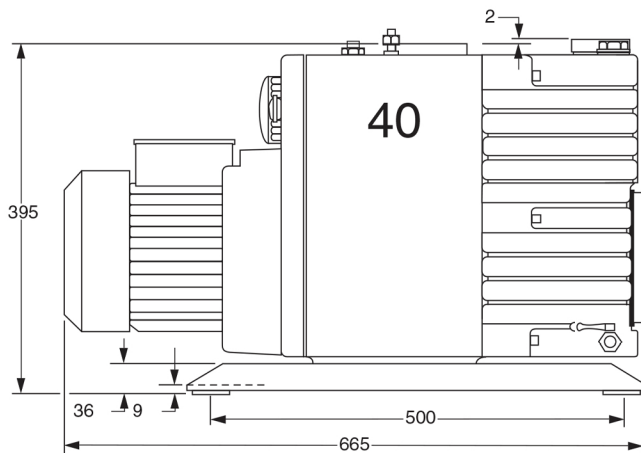
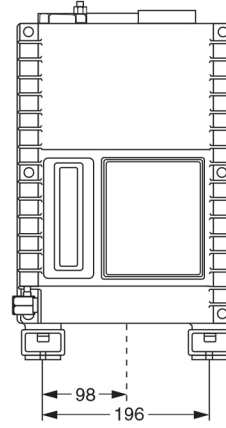
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## Edwards E1M40, E1M80 Dimensions

### E1M40



### E1M80





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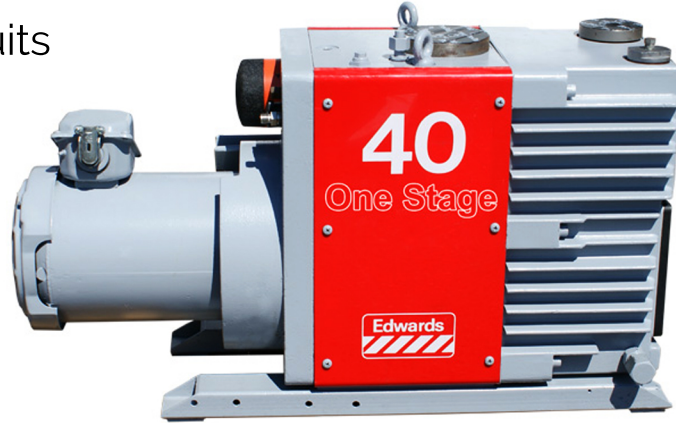
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## Edwards E1M40, E1M80

### Features & Benefits

- completely enclosed fan-cooled motors
- advanced lubrication circuits
- easy to install & maintain
- compact, quiet design
- flexible & reliable
- vibration free



### Applications

- vacuum metallurgy processes
- thin film coating technologies
- pharmaceutical
- freeze drying
- refrigeration/air conditioning system
- evacuation, drying, & backfilling
- transformer/cable drying & impregnation
- insulating oil treatment plant
- lamp manufacture
- cryogenic vessel evacuation
- vacuum drying/distillation in chemical industries
- semiconductor device manufacture
- backing pump for high vacuum applications

