



Edwards ES Series

Technical Specifications

	units	ES65	ES100	ES200	ES300	ES630
Maximum Displacement 50Hz	m ³ h ⁻¹ / cfm	64/38	96/56	198/117	293/172	635/374
Maximum Displacement 60Hz	m ³ h ⁻¹ / cfm	77/45	115/68	240/141	354/208	769/453
Pumping Speed 50 Hz	m ³ h ⁻¹ / cfm	59/35	90/53	190/112	275/162	575/338
Pumping Speed 60 Hz	m ³ h ⁻¹ / cfm	70/41	105/62	225/132	320/188	674/397
Ultimate vacuum (total pressure) no gas ballast	mbar / torr	0.15/0.11	0.15/0.11	0.08/0.06	0.08/0.06	0.1/0.08
Ultimate vacuum (total pressure) with gas ballast	mbar / torr	1.0/0.8	2.0/1.5	1.0/0.8	2.0/1.5	1.0/0.8
Inlet Connection		ISO40/1"BSP	ISO63/2"BSP	ISO63/2"BSP	ISO63/2"BSP	ISO100/3"BSP
Outlet Connection		ISO40/11/2"BSP	ISO40/11/2"BSP	ISO40/2"BSP	ISO40/2"BSP	ISO100/3"BSP
Max permitted outlet pressure	bar gauge	0.5	0.5	0.5	0.5	0.5
Max water vapour pumping rate (50Hz)	kg ^h ⁻¹ / lbh ⁻¹	1.3/2.8	2.6/5.7	2.2/4.8	2.3/5.1	5.6/12.3
Max water vapour pumping rate (60Hz)	kg ^h ⁻¹ / lbh ⁻¹	1.6/3.5	4.3/9.4	2.8/6.1	3/6.6	8.1/17.8
Dimensions (L,W,H)	mm	725.5*387*361	810*387*361	990*517*462	1103*517*462	1651*680*589
Weight	kg / lb	77/170	94/207	163/359	185/408	516/1138
Motor Protection rating		IP55	IP55	IP55	IP55	IP55
Motor Power 50Hz	kW / hp	1.5/2.0	2.3 / 3	4.5/6.0	6/8.0	12.5/16.7
Motor Power 60Hz	kW / hp	1.8/2.4	3/4.0	5.8/7.7	7.5/10.0	15/20.1
Noise level (50Hz)	dB(A)	64	65	67	69	75
Noise level (60Hz)	dB(A)	66	67	69	71	77
Oil Refill Capacity	litre	4	4	5	5	15
Recommended oil		Ultragrade 20	Ultragrade 20	Ultragrade 20	Ultragrade 20	Ultragrade 20

	EH250	EH500	EH1200	EH2600	EH4200
ES65					
ES100					
ES200					
ES300			Direct Mount		
ES630					Frame mount

Note: other combinations are available on request



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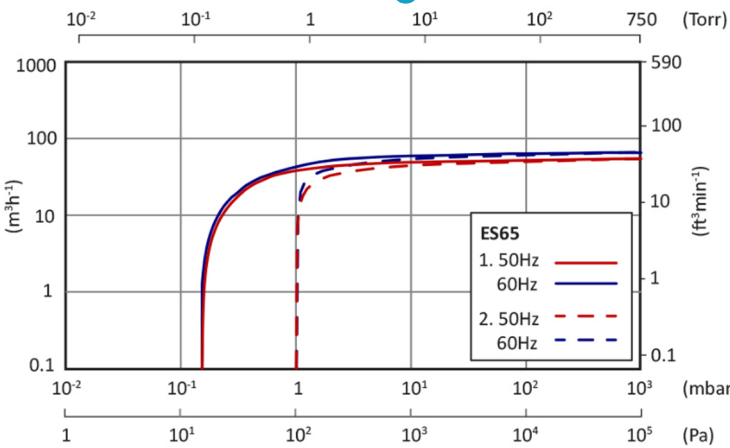
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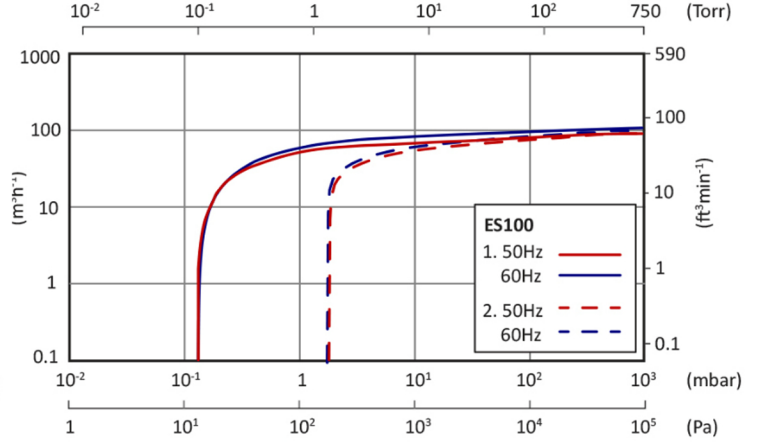
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Edwards ES Series Pumping Curves

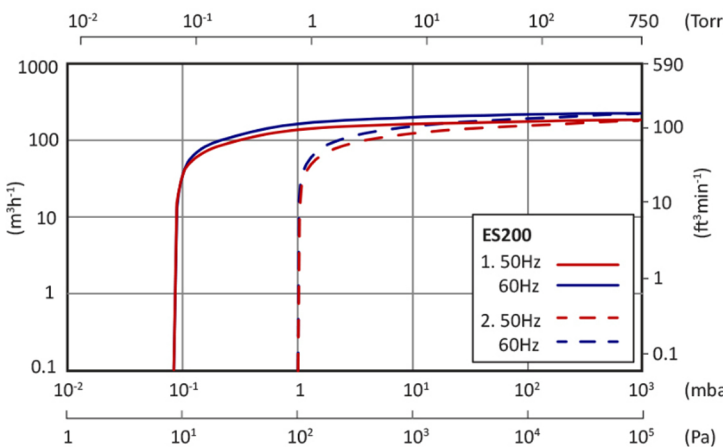
ES65



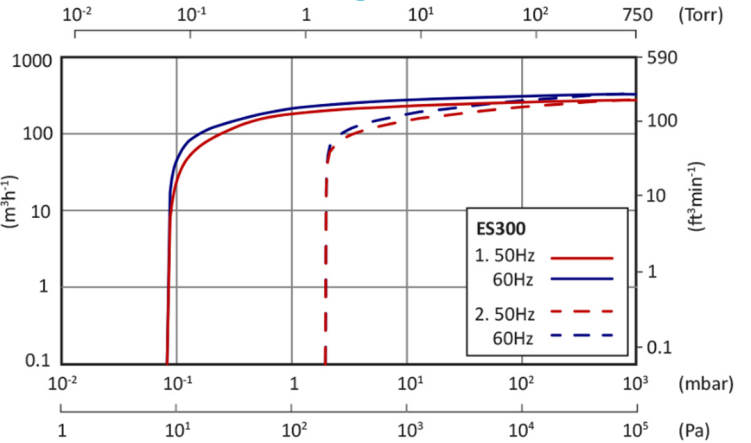
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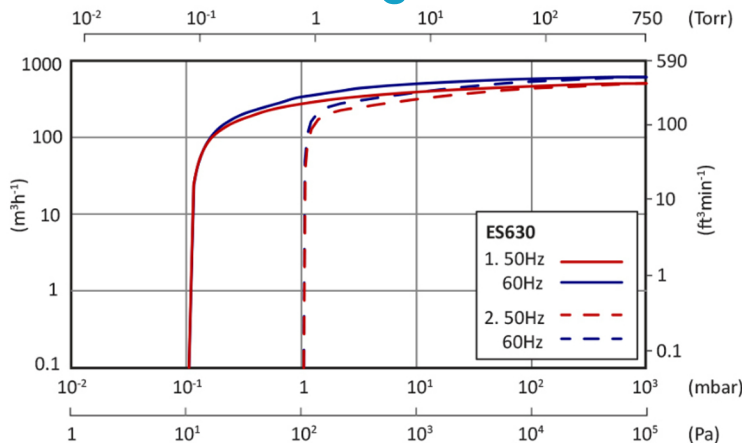
ES200



ES300



ES630

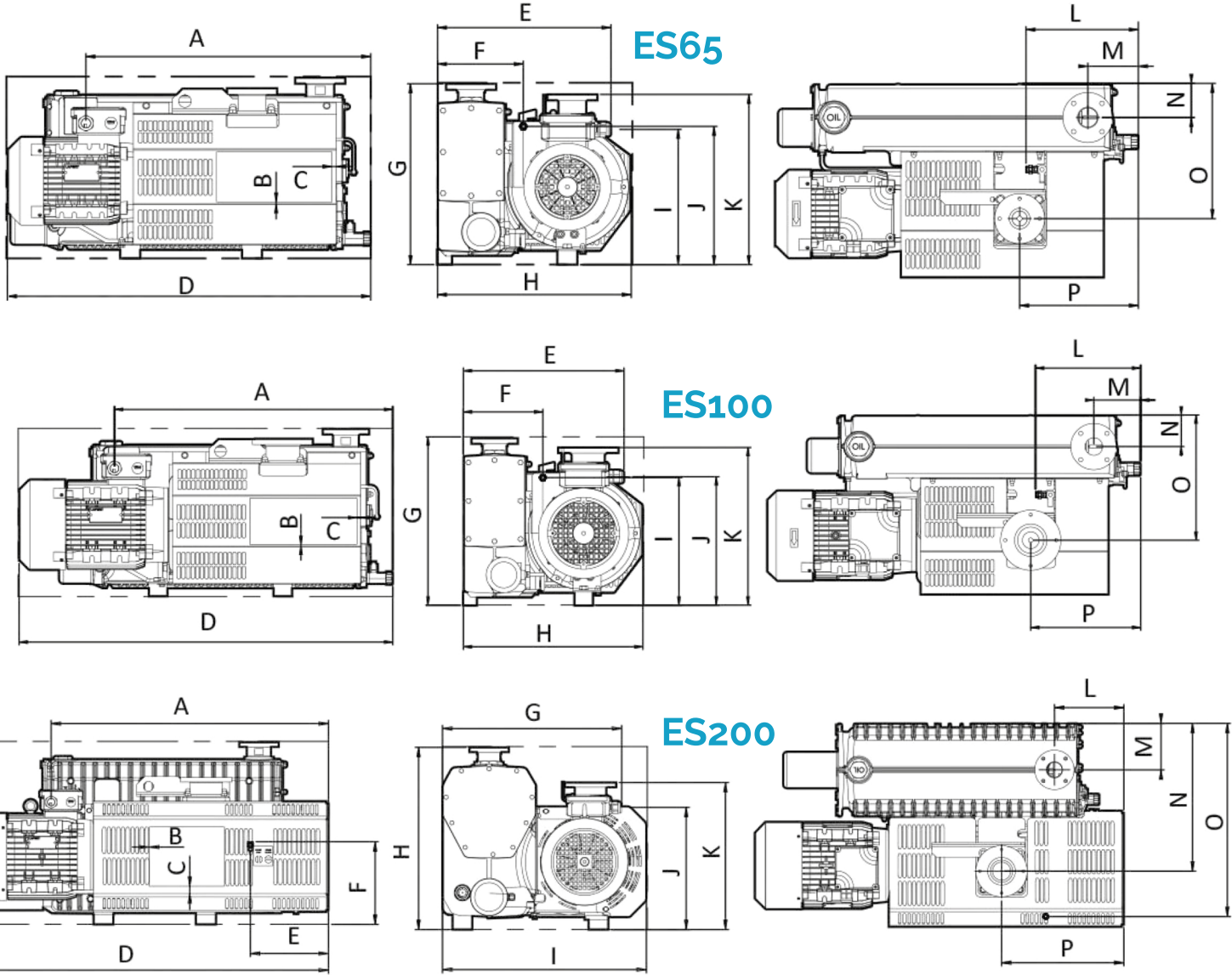


1) without gas ballast
2) with gas ballast



Edwards ES Series

Dimensions



mm (inches)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
ES65	568 (22.36)	3.8 (0.15)	8.6 (0.34)	725.5 (28.56)	346 (13.62)	171 (6.73)	361 (14.21)	387 (15.24)	270 (10.63)	276 (10.86)	340 (13.39)	224 (8.82)	101 (3.97)	68 (2.68)	270 (10.63)	237 (9.33)
ES100	600.5 (23.64)	3.8 (0.15)	8.6 (0.34)	810 (31.88)	353 (13.89)	171 (6.73)	361 (14.21)	387 (15.24)	275 (10.83)	293 (11.53)	340 (13.39)	226 (8.9)	101 (3.97)	68 (2.68)	270 (10.63)	237 (9.33)
ES200	714 (28.11)	2.8 (0.11)	19 (0.75)	990 (38.97)	201 (7.91)	210 (8.26)	471 (18.34)	462 (18.19)	517 (20.35)	323 (12.71)	375 (14.76)	176 (6.92)	118 (4.65)	375 (14.76)	490 (19.29)	310 (12.20)



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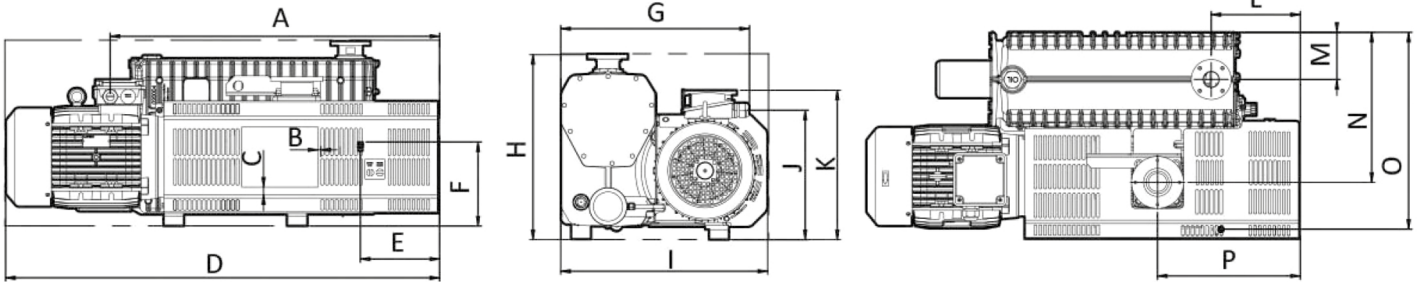
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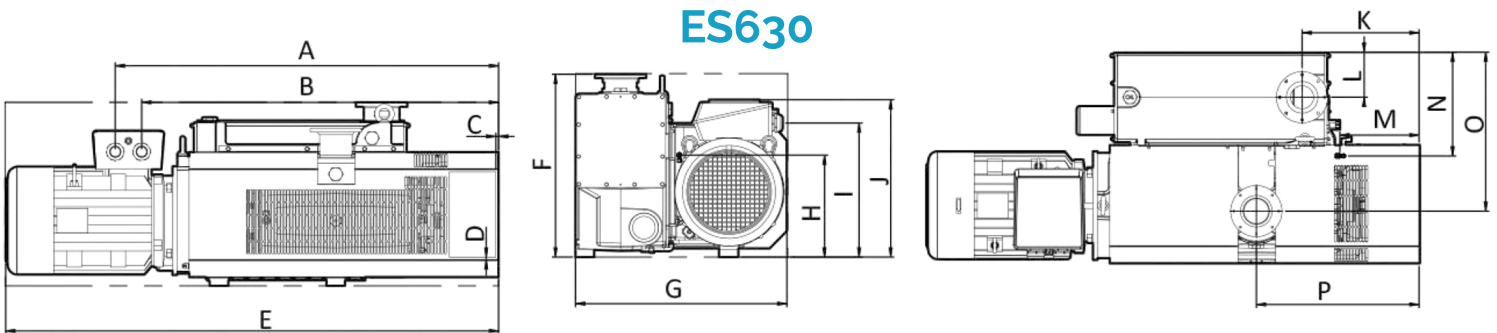
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Edwards ES Series Dimensions cont.

ES300



ES630



mm (inches)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
ES300	822 (32.36)	7.4 (0.29)	19 (0.75)	1103 (43.42)	198 (7.8)	210 (8.27)	471 (18.54)	462 (18.19)	517 (20.35)	323 (12.71)	373 (14.69)	222 (8.74)	118 (4.65)	375 (14.76)	492 (19.37)	356 (14.02)
ES630	1234 (48.58)	1149 (45.24)	9 (0.35)	8 (0.31)	1651 (65.00)	589 (23.18)	680 (26.77)	330 (12.99)	432 (17.00)	507 (19.96)	376.5 (14.82)	145 (5.70)	256.5 (10.09)	334 (13.15)	512 (20.16)	524 (20.63)





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Edwards ES Series Features & Benefits

- low cost of ownership
- excellent water vapor handling
- environmentally friendly - minimal oil emission
- quiet operation with vibration isolators
- optimized oil return system
- ease of integration - built-in ISO & BSP connections
- easy to maintain - easy oil & filter changes
- flexibility & simplicity
- refined internal mechanism
- efficient air flow management system
- direct drive technology

Applications

- load locks • web & roll coating • optical, ophthalmic & display coating
- surface coating • heat treatment • tempering • quenching • annealing
- vacuum brazing • e-beam & plasma welding • transformer drying
- automotive drying & filling systems • refrigeration & air conditioning
- battery & capacitor drying • house vacuum • sterilisation • plasma cleaning/sterilizing • oil/resin degassing • food processing • leak detection • cryo interspace evacuation • vacuum insulated panels & glass • cylinder filling