



PROVAC

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Leybold E-75, E-150, E-250

Technical Specifications

Model	Displacement (CFM)	Nominal Pump Speed (RPM)	Motor Power (H.P.)	Inlet/Outlet Flanges	Ultimate Pressure (without gas ballast) McLeod Gauge (Torr)	Electrical Service (Volts/Phase/Hz)	Motor Protection
Single Stage							
E75	50	540	3.0	KF50/KF50	2×10^{-2}	208-230/460/3/60	TEFC
E150	100	540	5.0	3" ASA/KF50	2×10^{-2}	208-230/460/3/60	TEFC
E250	171	540	7.5	3" ASA/3" ASA	2×10^{-2}	208-230/460/3/60	TEFC

Performance Characteristics

	E75	E150	E250
Ultimate Total Pressure, With Gas Ballast Valve, approximately Torr	2×10^{-1}	2×10^{-1}	2×10^{-1}
Water Vapor Tolerance Torr	45	45	45
Gas Ballast Flow (Air @ Std. Cond.) CFM	2.0	5.3	5.3
Oil Capacity—Pump plus Gear Housing qt	2.9	5.7	8.9
Rotational Speed of Pump* RPM	540	540	540
Nominal Rotational Speed of Motor RPM	1800	1800	1800
Weight lb	380	580	830

Electrical Motor Characteristics

Pump type	Motor/Voltage/Phase/Frequency	HP	Full Load Amp
E75	200-230/460/3/60 200-220/380/3/50	3	9.2-8.6/4.3 9.8-9.6/5.1
E150	200-230/460/3/60 200/380/3/50	5	15.5-14.2/7.1 16.0/8.4
E250	200-230/460/3/60 200/380/3/50	7.5	24.0-21.0/10.5 24.6/12.7



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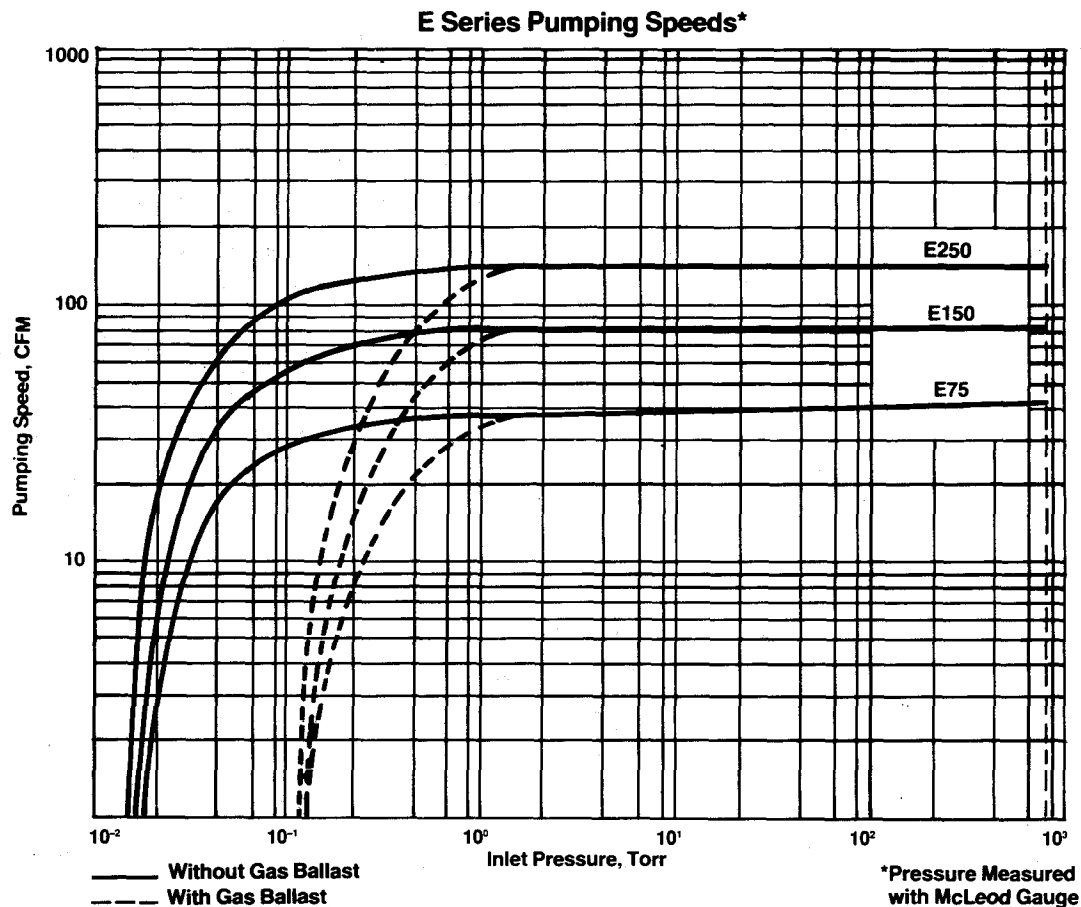
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Pumping Curves



Applications

- vacuum drying • impregnation • heat treating • vacuum packaging
- mixing • degassing and molding of plastics • production of lighting devices • electron and cathode-ray tubes • transformer oil degassing • vacuum distillation • LPCVD • plasma processes
- general vacuum service



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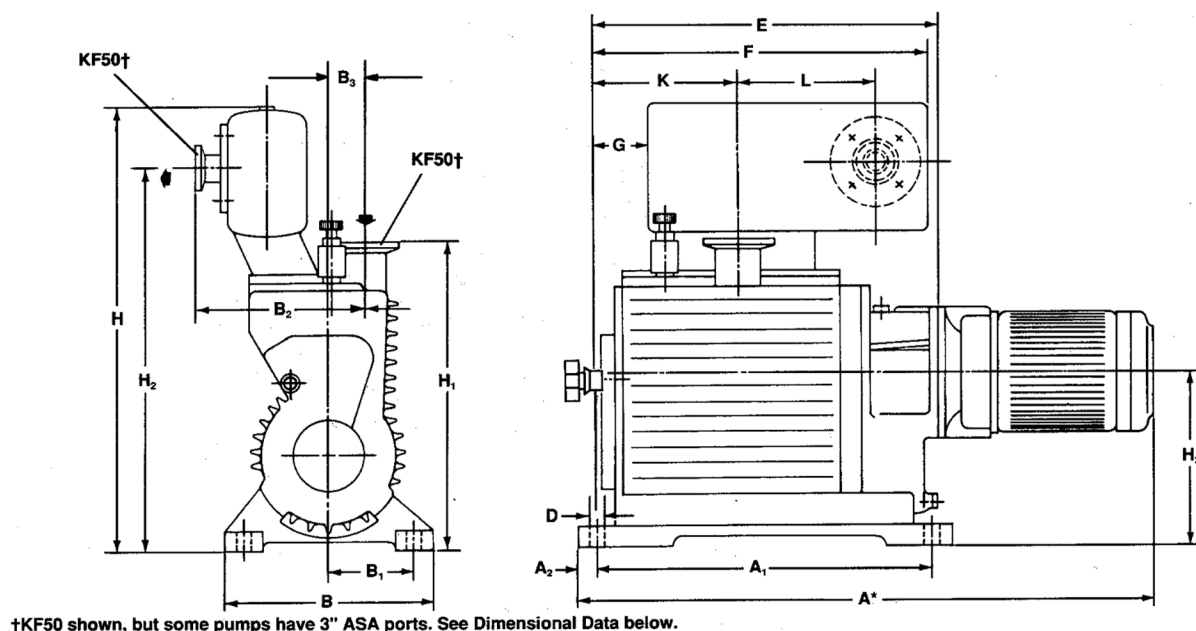
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Features & Benefits

- single stage, direct drive, air-cooled motor
- separate gear box lubrication
- adjustable gas ballast valve
- corrosion-resistant seals
- continuous operation

Dimensions



Dimensional Data

Dimensions, Inches (mm)

Model	Intake Flange	Exhaust Flange	A*	A ₁	A ₂	B	B ₁	B ₂	B ₃	D	E	F	G	H	H ₁	H ₂	H ₃	K	L
E75	KF50	KF50	29 (737)	14 ³ / ₁₆ (360)	1 ³ / ₁₆ (30)	13 ³ / ₈ (340)	5 ¹ / ₂ (140)	11 ³ / ₈ (289)	2 ⁵ / ₁₆ (59)	9 ¹ / ₁₆ (14)	13 ⁷ / ₈ (352)	15 ³ / ₄ (400)	2 ⁹ / ₁₆ (65)	27 ³ / ₁₆ (690)	20 ¹¹ / ₁₆ (525)	23 ¹ / ₄ (590)	11 ⁵ / ₈ (295)	6 ³ / ₈ (162)	6 ¹ / ₈ (155.5)
E150	3-inch ASA	KF50	38 ¹ / ₂ (978)	21 ¹ / ₄ (540)	1 ³ / ₁₆ (30)	13 ³ / ₈ (340)	5 ¹ / ₂ (140)	12 ³ / ₁₆ (309.5)	2 ⁵ / ₁₆ (59)	9 ¹ / ₁₆ (14)	21 ¹ / ₈ (537)	20 ⁷ / ₈ (530)	2 ³ / ₄ (70)	28 ¹ / ₈ (715)	19 ¹¹ / ₁₆ (475)	23 ¹³ / ₁₆ (605)	11 ⁵ / ₈ (295)	8 ⁹ / ₁₆ (217)	8 ¹¹ / ₁₆ (220)
E250	3-inch ASA	3-inch ASA	48 (1220)	30 ¹¹ / ₁₆ (780)	1 ³ / ₁₆ (30)	13 ³ / ₈ (340)	5 ¹ / ₂ (140)	11 ¹ / ₂ (292)	2 ¹ / ₁₆ (52)	9 ¹ / ₁₆ (14)	30 ⁹ / ₁₆ (776)	29 ¹ / ₂ (750)	2 ⁹ / ₁₆ (65)	29 ¹ / ₈ (740)	19 ¹¹ / ₁₆ (475)	25 ¹ / ₁₆ (636)	11 ⁵ / ₈ (295)	13 ⁹ / ₃₂ (337)	11 ⁷ / ₁₆ (290)

* Reference Dimension