



Edwards iH Series

Technical Specifications

		iH80		iH600		iH1000	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Peak speed	m ³ h ⁻¹	86	103	518	600	950	1000
	cfm	51	61	305	353	560	589
	l min ⁻¹	1433	1717	8635	10000	15837	16670
Ultimate pressure (typical with shaft seals purge only)	mbar	3 x 10 ⁻²	1 x 10 ⁻²	2 x 10 ⁻³	7 x 10 ⁻⁴	2 x 10 ⁻³	1 x 10 ⁻³
	Torr	2.3 x 10 ⁻²	7.5 x 10 ⁻³	1.5 x 10 ⁻³	5.3 x 10 ⁻⁴	1.5 x 10 ⁻³	7.5 x 10 ⁻⁴
	Pa	3	1	0.2	0.07	0.2	0.1
Typical purge flow	slm	4-44	4-44	4-44	4-44	4-44	4-44
Inlet connection		ISO63	ISO63	ISO100	ISO100	ISO100	ISO100
Outlet connection		NW40	NW40	NW40	NW40	NW40	NW40
Typical cooling water flow at 15 psi pressure drop	l h ⁻¹	120	120	240	240	240	240
	l min ⁻¹	2	2	4	4	4	4
Weight	kg	240	240	415	415	430	430
Power at ultimate ⁽¹⁾	kW	2.3	2.6	3.0	3.3	3.4	3.7
Rated motor power	kW	2.9	3.5	5.1	6.1	5.1	6.1
Oil capacity	l	0.7	0.7	1.43	1.43	1.48	1.48

All figures are typical without gas ballast

(1) Average power at 700T exhaust pressure

		iH160	iH1800/HTX
		50/60 Hz	50/60 Hz
Peak speed	m ³ h ⁻¹	165	1800
	cfm	97	1060
	l min ⁻¹	2,750	30,000
Ultimate pressure (typical with shaft seals purge only)	mbar	1 x 10 ⁻²	1 x 10 ⁻³
	Torr	7.5 x 10 ⁻³	7.5 x 10 ⁻⁴
	Pa	1	0.1
Typical purge flow	slm	4-44	4-70
Inlet connection		ISO63	ISO160
Outlet connection		NW40	NW40
Typical cooling water flow at 15 psi pressure drop	l h ⁻¹	120	240
	l min ⁻¹	2	4
Weight	kg	244	502
Power at ultimate ⁽¹⁾	kW	3.0	3.9
Rated motor power	kW	3.5	7.0
Oil capacity	l	0.85	1.6

All figures are typical without gas ballast

(1) Average power at 700T exhaust pressure





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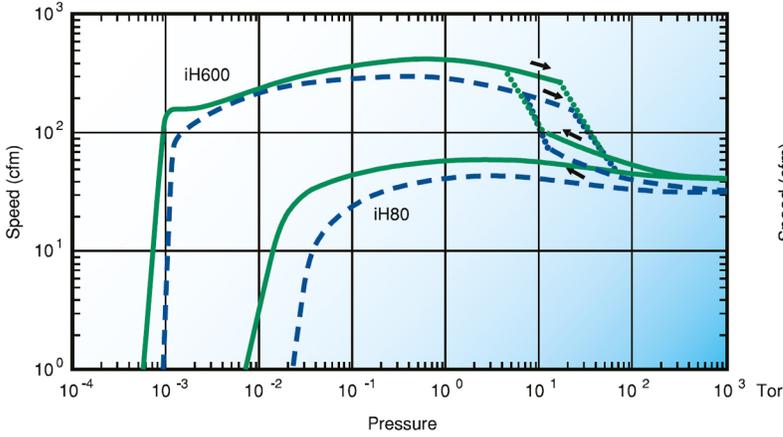
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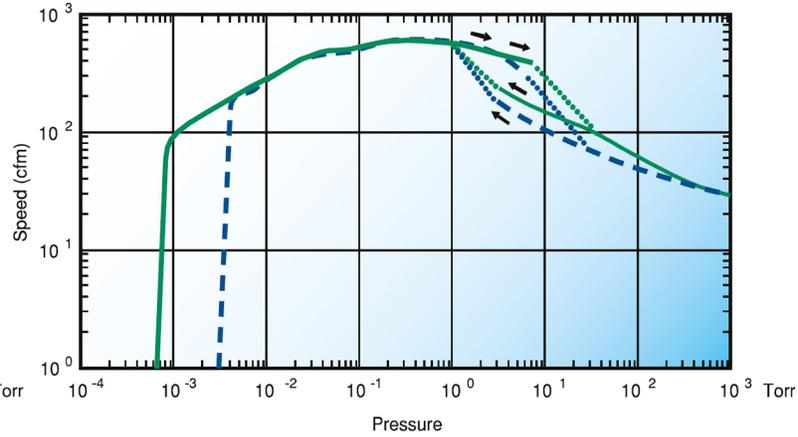
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Edwards iH Series Pumping Curves

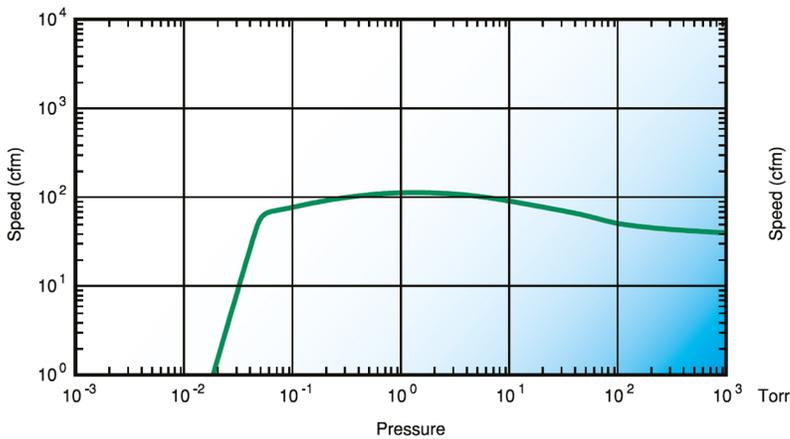
iH-80, iH-600



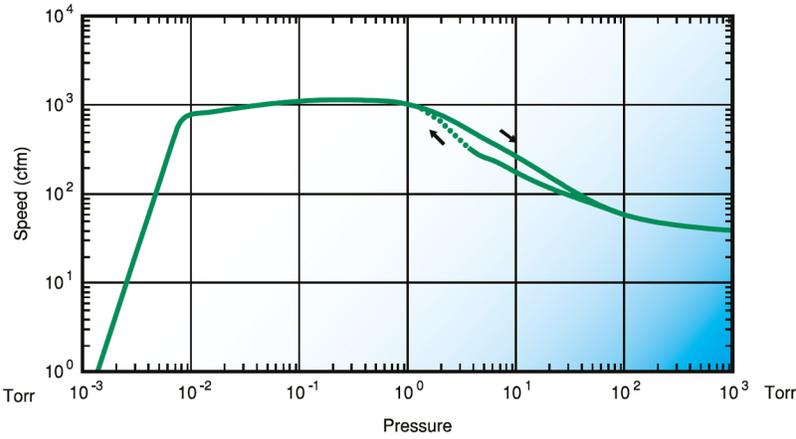
iH-1000



iH-160



iH-1800, iH-1800HTX

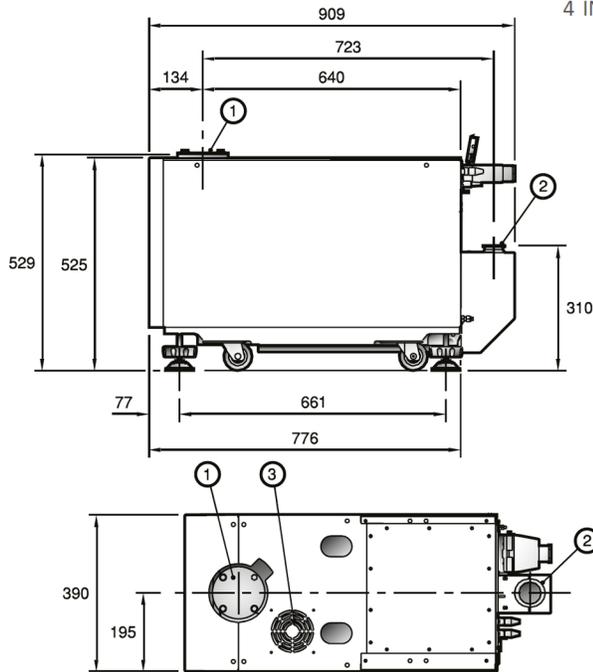




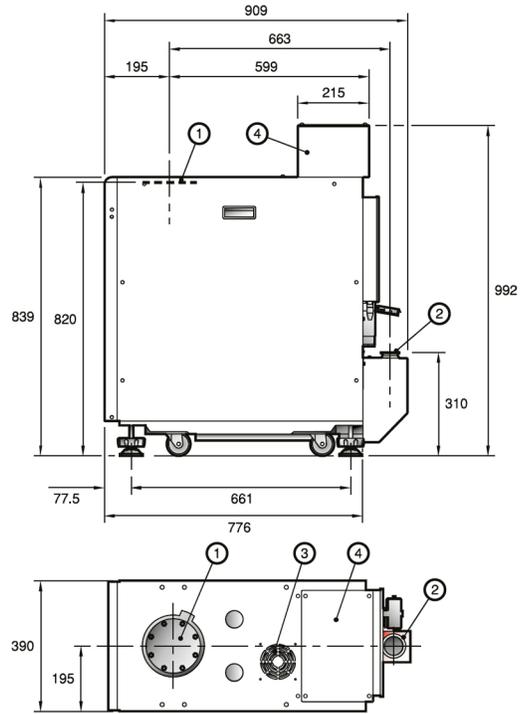
Edwards iH Series Dimensions

- 1 INLET
- 2 OUTLET
- 3 AIR EXTRACTION PORT
- 4 INVERTER BOX

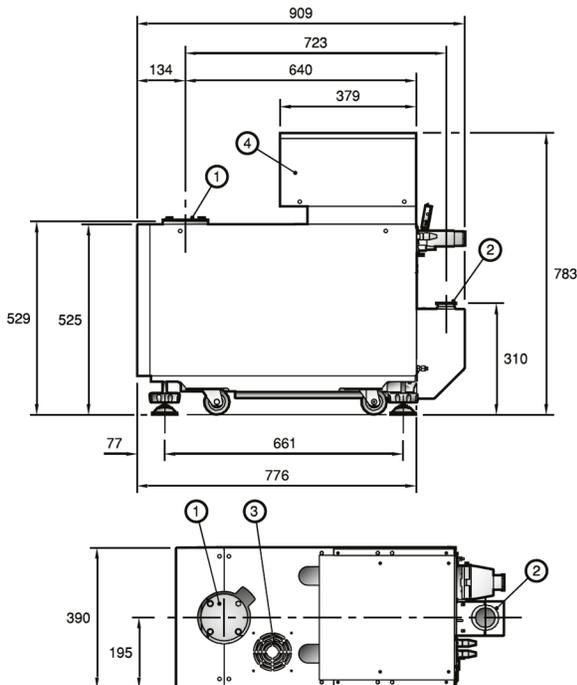
iH-80



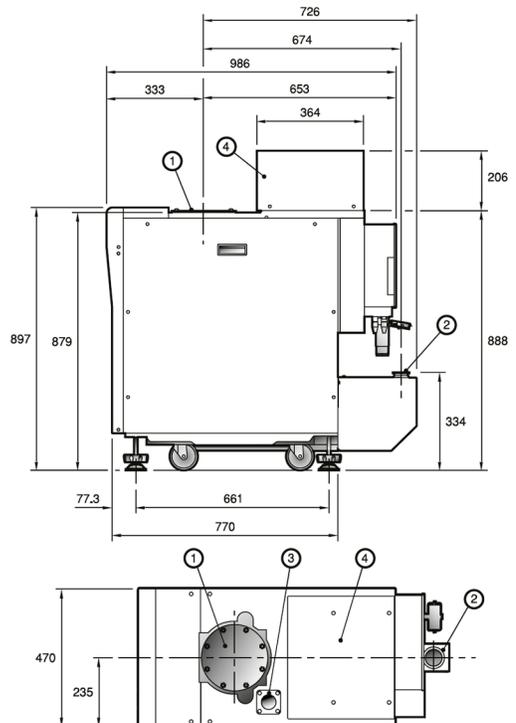
iH-600, iH-1000



iH-160



iH-1800, iH-1800HTX





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FAX: 831-462-3536

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Edwards iH Series

Features & Benefits

- low cost of ownership
- optimised footprint
- high reliability for difficult processes
- specifically designed for high-throughput applications
- corrosion resistant materials allow pumping of corrosive gases
- higher operating temperatures prevent gas condensation
- absence of greased bearings eliminates need for intervention
- one-piece shaft eliminates need for motor coupling

Applications

- load lock • transfer • metrology • lithography • PVD process • PVD pre-clean • RTA • strip/ashing • oxide etch • silicon etch • metal etch • implant source • HPD CVD • RTP • SACVD • MOCVD
- PECVD • LPCVD • ALD

