Edwards HT10, HT16B, HT20B

Technical Specifications

		HT10	HT16B	HT20B
AVS pumping (nitrogen)	I/s	2900	6700	8000
AVS pumping (helium)	l/s	4900	8500	16000
Maximum throughput (nitrogen)	mbar Is ⁻¹ / Torr Is ⁻¹	10/7.5	18/13.5	24/18
Critical backing pressure (with DC704)	mbar/Torr	1.1/0.8	1.4/1	1.3/1
Minimum backing pump displacement for maximum throughput	m³h⁻¹/ft³min⁻¹	60/35	94/55	135/80
Recommended backing pump	-	E2M80	GXS250, E2M175	GXS250, E2M175
Recommended fluid	-	Edwards 704		
Fluid charge (dry)	ml/qt	1250/1.3	2400/2.5	3600/ 3.8
Inlet/backing connection	-	ANSI10/ANSI 2 or E12"/ E130mm or ISO320/ISO63	ANSI16/ANSI 3 or ISO500/ISO100	ANSI20/ANSI4 or ISO630/ISO160
Water connection	-	⅓ inch NPT female		
Heater power	kW/hp	5.1/6.8	9/12	12.6/16.9
Warm-up time	min	30	60	60
Cool down time (to approximately 100°C)	min	120	180	300
Minimum cooling water flow at 25°C (inlet in addition)	lh ⁻¹	400	700	960
	US gal min ⁻¹	1.8	3.1	4.2
Pressure drop across cooling water supply	bar/psi	1/14.5	1/14.5	1.2/17.4
Weight	kg/lbs	80/176	185/408	275/605







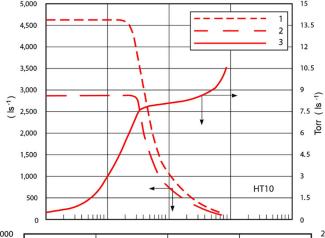
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Pumping Curves

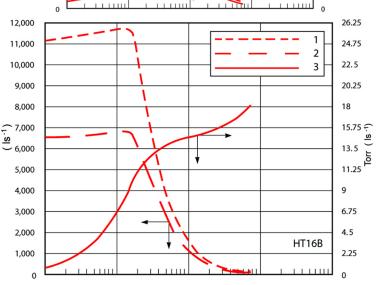
HT10

- 1. Comparative pumping speeds from back to back testing
- 2. ISO pumping speed obtained using total pressure gauges
- 3. ISO throughput obtained using total pressure gauges



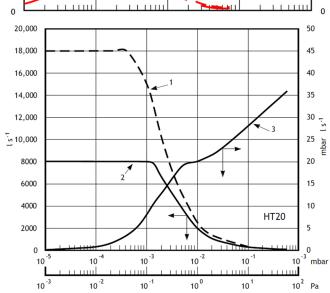
HT₁6B

- 1. Comparative pumping speeds from back to back testing
- 2. ISO pumping speed obtained using total pressure gauges
- 3. ISO throughput obtained using total pressure gauges

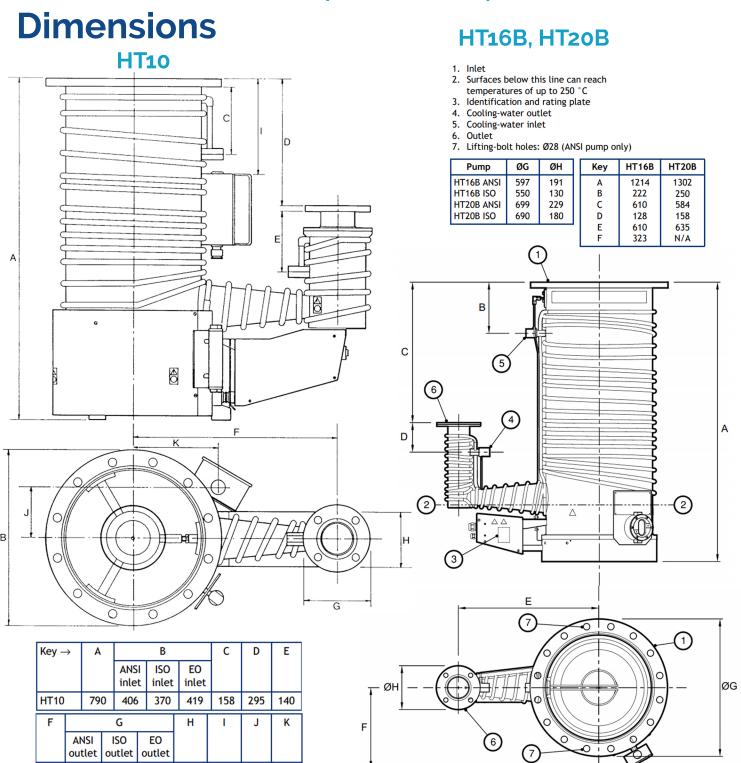


HT₂0B

- 1. Comparative pumping speeds from back to back testing
- 2. ISO pumping speed obtained using total pressure gauges
- 3. ISO throughput obtained using total pressure gauges



Edwards HT10, HT16B, HT20B



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Edwards HT10, HT16B, HT20B Features & Benefits

- · highest throughput of any comparative sized pumps
- earliest crossover point compared to any similar sized pump
- self fractionating boiler for low ultimate pressure
- · large oil level sight glass
- easy changing of heaters & oil fill and drain
- stainless steel body for corrosion resistance & process cleanliness
- cast & machined interior provides exceptional pump stability
- high critical backing pressure for very good tolerance to gas surges
- no busbars for improved electrical reliability
- integral water cooled cold cap ensures minimal back-streaming

Applications

 vacuum metallurgy · distillation · drying & degassing · thin film coating & metallizing · large scale research