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Edwards EH-1200, 2600, 4200

Technical Specifications

PUMP		EH1200	EH2600	EH4200
Displacement (swept volume)				
50 Hz supply	m^3h^{-1} / ft^3min^{-1}	1195 / 715	2590 / 1525	4140 / 2440
60 Hz supply	m^3h^{-1} / ft^3min^{-1}	1435 / 845	3110 / 1830	4985 / 2935
Effective pumping speed* with backing pump				
E1M40 or E2M40	m^3h^{-1} / ft^3min^{-1}			
E1M80 or E2M80	m^3h^{-1} / ft^3min^{-1}	840 / 495		
E1M175 or E2M175	m^3h^{-1} / ft^3min^{-1}	930 / 548	1750 / 1031	
E1M275 or E2M275	m^3h^{-1} / ft^3min^{-1}	1020 / 601	1900 / 1119	3100 / 1825
Pressure differential across pump‡				
50 Hz supply	mbar / Torr	0 – 90 / 0 – 68	0 – 80 / 0 – 60	0 – 60 / 0 – 45
60 Hz supply	mbar / Torr	0 – 75 / 0 – 56	0 – 67 / 0 – 50	0 – 50 / 0 – 38
Inlet connection		ISO160	ISO160	ISO250
Outlet connection		ISO100	ISO100	ISO100

EH1200	
Rotational speed†	
50 Hz supply	0 – 2900 rpm
60 Hz supply	0 – 3500 rpm
Operating continuous inlet pressure	0 – 1000 mbar (0 – 760 Torr)
Maximum outlet pressure	1000 mbar (760 Torr)
Recommended backing pumps	GV160, GV250, E2M80, E2M175
Electrical supply voltage, 3-phase	
50Hz	220 – 240 V / 380 – 415 V
60 Hz	208 – 230 V / 460 V
Motor power	
Hydrocarbon	3 kW (4 hp)
PFPE	3 kW (4 hp)
ATEX	3 kW
Explosion proof	4 hp
Ambient temperature range	
Operating	5 to 40 °C (40 to 104 °F)
Storage	-10 to 80 °C (14 to 176 °F)
Maximum operating humidity	90% RH
Recommended cooling water flow (inlet temperature 20 °C)**	120 l h^{-1} (0.53 gal min^{-1})
Recommended cooling water supply pressure**	2 – 6 bar
Cooling water connections**	⅜ inch BSP male
Recommended oil	
Standard version	Ultragrade 20
PFPE version	Fomblin® YVAC 16/6
Oil capacity	
Gear case	1.25 liter (1.3 qt)
Coupling cover	2.4 liter (2.5 qt)
Shaft seal reservoir	0.125 liter (0.25 qt)
Weight	149 kg (329 lb)

	EH2600	EH4200
Rotational speed†		
50 Hz supply	0 – 2900 rpm	0 – 2900 rpm
60 Hz supply	0 – 3500 rpm	0 – 3500 rpm
Operating continuous inlet pressure	0 – 1000 mbar (0 – 760 Torr)	0 – 1000 mbar (0 – 760 Torr)
Maximum outlet pressure	1000 mbar (760 Torr)	1000 mbar (760 Torr)
Recommended backing pumps	GV250, GV400, E2M175, E2M275	GV400, E2M275
Electrical supply voltage, 3-phase		
50Hz	220 – 240 V / 380 – 415 V	220 – 240 V / 380 – 415 V
60 Hz	208 – 230 V / 460 V	208 – 230 V / 460 V
Motor power		
Hydrocarbon	11 kW (15 hp)	11 kW (15 hp)
PFPE	7.5 kW (10 hp)	11 kW (15 hp)
ATEX	11 kW	11 kW
Explosion proof	15 hp	15 hp
Ambient temperature range		
Operating	5 to 40 °C (40 to 104 °F)	5 to 40 °C (40 to 104 °F)
Storage	-10 to 80 °C (14 to 176 °F)	-10 to 80 °C (14 to 176 °F)
Maximum operating humidity	90% RH	90% RH
Recommended cooling water flow (inlet temperature 20 °C)**	250 l h^{-1} (1.1 gal min^{-1})	250 l h^{-1} (1.1 gal min^{-1})
Recommended cooling water supply pressure**	2 – 6 bar	2 – 6 bar
Cooling water connections**	⅜ inch BSP male	⅜ inch BSP male
Recommended oil		
Standard version	Ultragrade 20 Fomblin® YVAC 16/6	Ultragrade 20 Fomblin® YVAC 16/6
PFPE version		
Oil capacity		
Gear case	3.5 liter (3.3 qt)	3.5 liter (3.3 qt)
Coupling cover	6.5 liter (7 qt)	6.5 liter (7 qt)
Shaft seal reservoir	1.5 liter (1.4 qt)	1.5 liter (1.4 qt)
Weight	308 kg (679 lb)	400 kg (882 lb)

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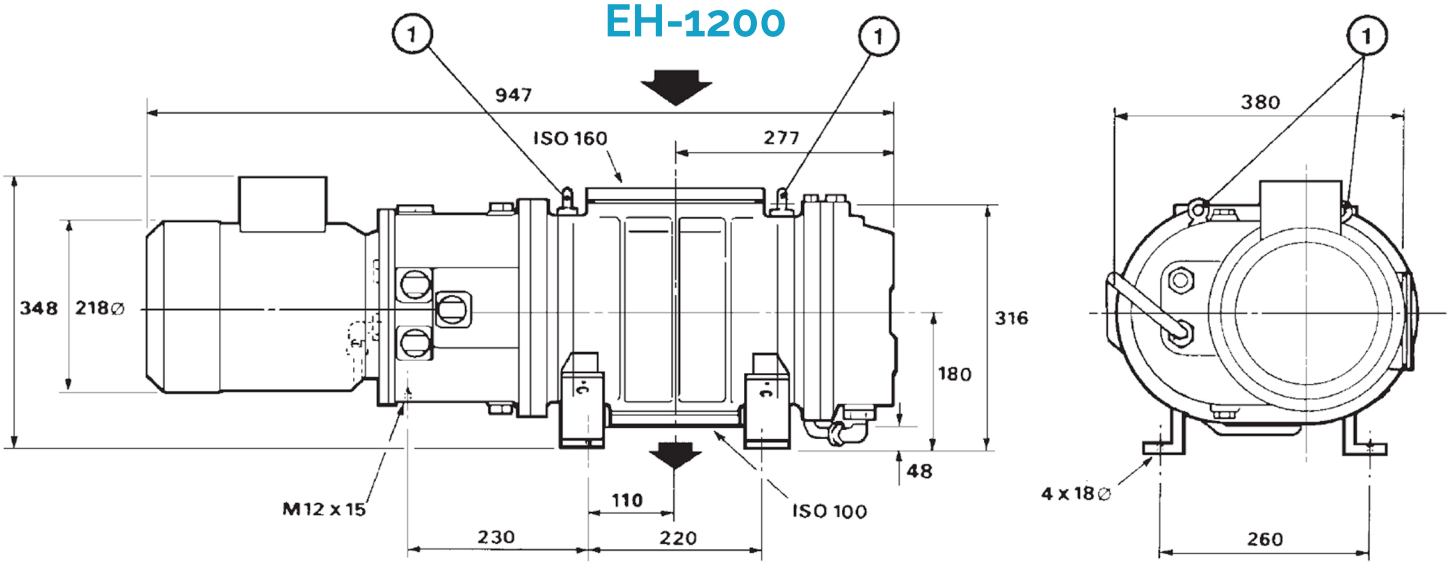
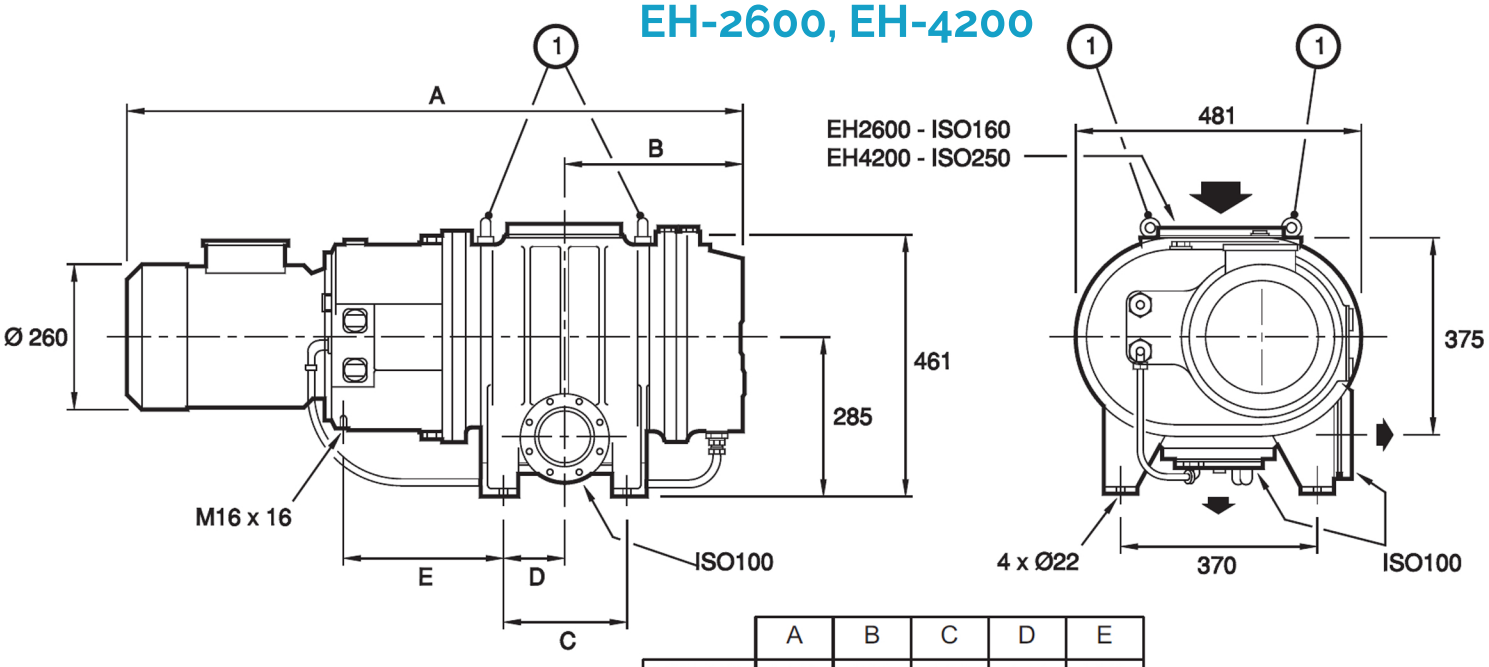
Dimensions

EH-1200



EH-2600, EH-4200



	A	B	C	D	E
EH2600	1093	312	220	110	275
EH4200	1273	402	370	185	290

EH2600 (7.5 kW)/4200 (7.5 kW) dimensions (mm)

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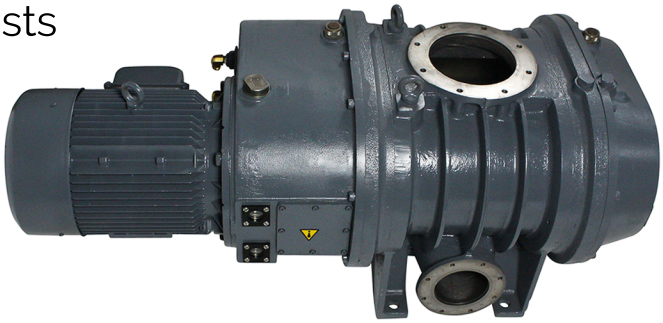
Features & Benefits

- unique hydrokinetic drive provides efficient power transmission with benefits in economy, performance & compactness
- pump down times cut 50%, when compared to direct drive pumps
- advanced shaft-seal technology means no oil contamination
- no bypass lines or pressure switches required
- reduced capital and operating costs
- rugged and corrosion resistant
- universal voltage motors
- quiet, minimum vibration



Applications

- industrial • semiconductor processing • vacuum distillation/ packaging • steel de-gassing • thin film coating • vacuum metallurgy
- low density wind tunnels • space simulation • vacuum impregnation
- oil drying and de-gassing • pharmaceutical freeze drying • CO2 lasers