



Edwards EH-250, EH-500

Technical Specifications

DATA SUMMARY EH MECHANICAL BOOSTERS			
PUMP		EH250	EH500
Displacement (swept volume)			
50 Hz supply	m ³ h ⁻¹ / ft ³ min ⁻¹	310 / 185	505 / 300
60 Hz supply	m ³ h ⁻¹ / ft ³ min ⁻¹	375 / 220	605 / 355
Effective pumping speed* with backing pump			
E1M40 or E2M40	m ³ h ⁻¹ / ft ³ min ⁻¹	240 / 141	350 / 206
E1M80 or E2M80	m ³ h ⁻¹ / ft ³ min ⁻¹	274 / 161	400 / 236
E1M175 or E2M175	m ³ h ⁻¹ / ft ³ min ⁻¹		440 / 259
E1M275 or E2M275	m ³ h ⁻¹ / ft ³ min ⁻¹		460 / 271
Pressure differential across pump‡			
50 Hz supply	mbar / Torr	0 – 180 / 0 – 140	0 – 110 / 0 – 68
60 Hz supply	mbar / Torr	0 – 150 / 0 – 115	0 – 90 / 0 – 825
Inlet connection		ISO63	ISO100
Outlet connection		ISO40	ISO63

TECHNICAL DATA

	EH250	EH500
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		
	GV80, E1M/ E2M40, E1M/ E2M80	GV80, GV160, E1M/E2M80
Electrical supply voltage, 3-phase		
50 Hz	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	2.2 kW (3 hp)	2.2 kW (3 hp)
PFPE	1.5 kW (2 hp)	1.5 kW (2 hp)
ATEX	2.2 kW	2.2 kW
Explosion proof	3 hp	3 hp
Maximum operating humidity		
	90% RH	90% RH
Recommended oil		
Standard version	Ultragrade 20	Ultragrade 20
PFPE version	Fomblin® YVAC 16/6	Fomblin® YVAC 16/6
Weight		
	61 kg (134 lb)	74 kg (163 lb)

** Under many circumstances, pumps may operate without cooling water.
Apply to BOC Edwards for more information.

† Depends on pressure.



PROVAC

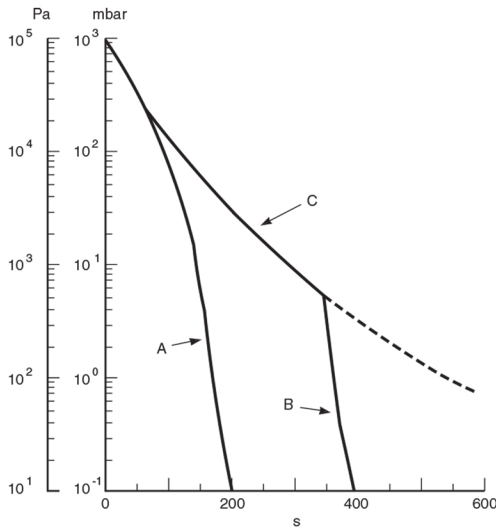
SALES

PHONE: 831-462-8900

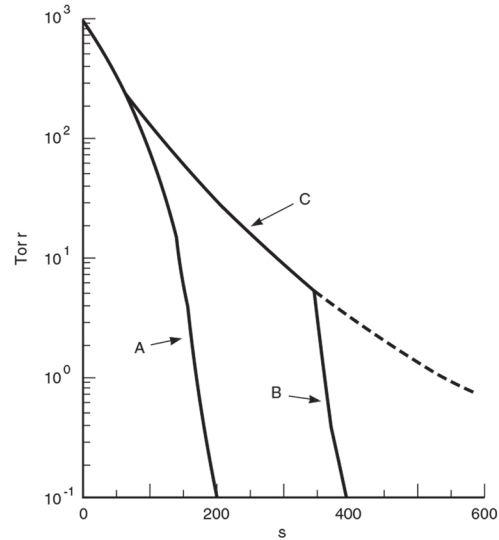
FAX: 831-462-3536

WWW.PROVAC.COM

Edwards EH-250, EH-500 Pumping Curves

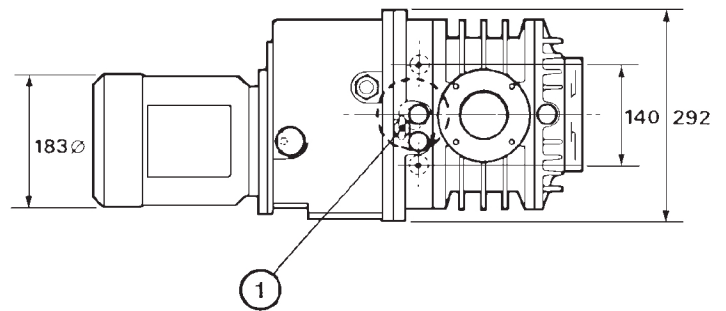
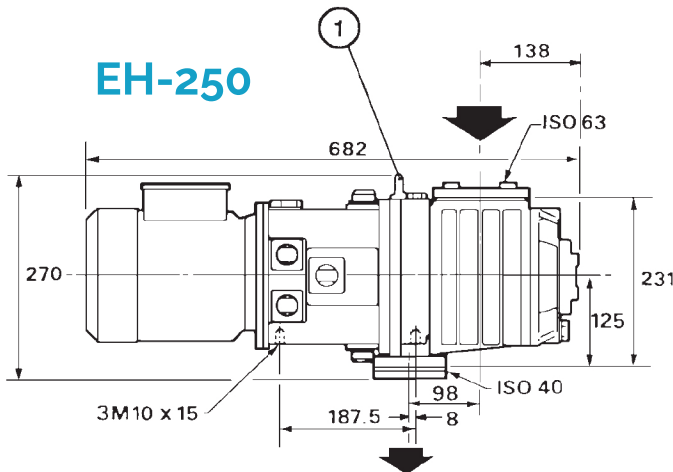


- A** With backing pump and EH mechanical booster pump switched on together
- B** With mechanical booster pump switched on at 5 mbar
- C** With backing pump only (pumping through booster pump)



- A** With backing pump and EH mechanical booster pump switched on together
- B** With mechanical booster pump switched on at 5 mbar
- C** With backing pump only (pumping through booster pump)

Dimensions



1. Lifting point



PROVAC

SALES

PHONE: 831-462-8900

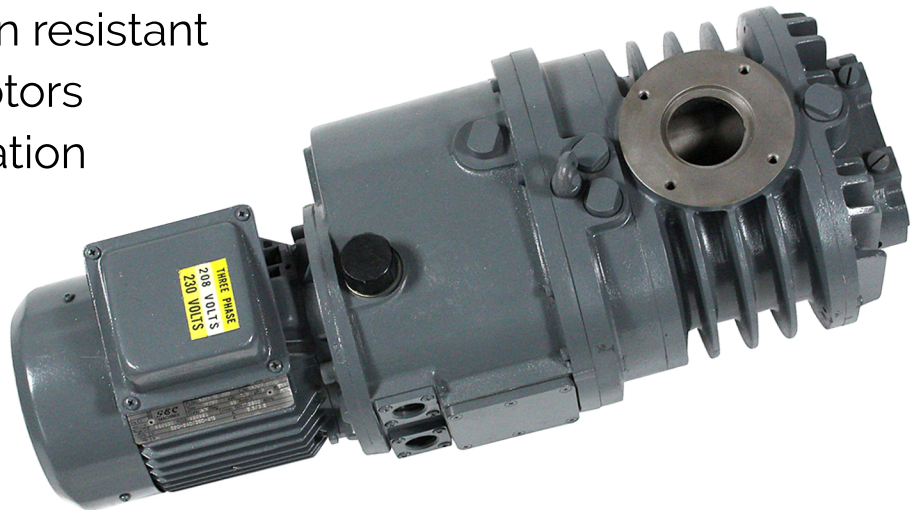
FAX: 831-462-3536

WWW.PROVAC.COM

Edwards EH-250, EH-500

Features & Benefits

- unique hydrokinetic drive provides efficient power transmission with benefits in economy, performance and compactness
- pump down times cut 50%, when compared to direct drive pumps
- advanced shaft-seal technology means no oil contamination of process chamber
- 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