

EH MECHANICAL BOOSTER PUMPS

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The EH Mechanical Booster range gives our customers reassurance and peace of mind thanks to its large installed base, both in Industrial and Chemical markets. EH pumps, available in sizes from 250 to 4200 m³h⁻¹ displacement, feature the unique hydrokinetic drive, providing an efficient power transmission with benefits in economy, performance and compactness.



Increased productivity

The unique Hydro kinetic drive allows the pump to operate from atmospheric pressure leading to fast pump down times.



Simple installation

No need for pressure switches, bypass lines or variable frequency drives.



Reliability

Robust and safe operation - Automatic overload protection, reliable shaftseal design.



Reassurance

Peace of mind - Industry proven, with a large installed base.

Technical data

	Units	EH250	EH500	EH1200	EH2600	EH4200
Displacement 50 Hz	m ³ h ⁻¹ /cfm	310/185	505/300	1195/715	2590/1525	4140/2440
Displacement 60 Hz	m ³ h ⁻¹ /cfm	375/220	605/335	1435/845	3110/1830	4985/2935
Inlet connection		ISO63	ISO100	ISO160	ISO160	ISO250
Outlet connection						
Pressure differential across pump 50 Hz	mbar/torr	0-180/0-140	0-110/0-83	0-90/0-68	0-120/0-90	0-70/0-52
Pressure differential across pump 60 Hz	mbar/torr	0-150/0-115	0-90/0-68	0-75/0-56	0-67/0-50	0-50/0-38
Weight	kg/lb	69/152	106/233	149/328	401/882	481/1058
Dimensions (L, W, H)	mm	705, 305, 272	791, 305, 265	953, 380, 334	1156, 522, 479	1336, 522, 479
Motor Power 50 Hz	kW/hp	2.2/3	2.2/3	3.0/4	11.0/15	11.0/15
Motor Power 60 Hz	kW/hp	2.2/3	2.2/3	3.0/4	11.0/15	11.0/15
Oil capacity gear case	litre	N/A	N/A	1.25	3.5	3.5
Oil capacity coupling cover	litre	1.5	1.5	2.4	6.5	6.5
Oil capacity shaft seal reservoir	litre	0.125	0.125	0.125	0.15	0.15
Water cooling req	lhr ¹ /gal min ⁻¹	N/A air cooled	N/A air cooled	120/0.53	250/1.1	250/1.1
Recommended oil		Ultragrade® 20 Fomblin® Y16/6	Ultragrade® 20 Fomblin® Y16/6	Ultragrade® 20 Fomblin® Y16/6	Ultragrade® 20 Fomblin® Y16/6	Ultragrade® 20 Fomblin® Y16/6

Ordering information

Oil type	Voltage	EH250	EH500	EH1200	EH2600	EH4200
"Hydrocarbon oil (Oil supplied with pump)"	200V 50HZ IE3	A30105934	A30205934	A30505934	A30705934	A30905934
	380-400V 50HZ IE3	A30105945	A30205945	A30505945	A30705945	A30905945
	200V 60HZ, 380V 60HZ IE3	A30106934	A30206934	A30506934	A30706934	A30906934
	230 / 460V 60HZ IE3	A30106946	A30206946	A30506946	A30706946	A30906946
PFPE Prepared FX (Oil to be ordered separately)	200V 50HZ IE3	A30107934	A30207934	A30507934	A30707934	A30907934
	380-400V 50HZ IE3	A30107945	A30207945	A30507945	A30707945	A30907945
	200V 60HZ, 380V 60HZ IE3	A30108934	A30208934	A30508934	A30708934	A30908934
	230 / 460V 60HZ IE3	A30108946	A30208946	A30508946	A30708946	A30908946

For Chemical, ATEX versions, contact Edwards

Applications

- Semiconductor processing
- Vacuum distillation
- Vacuum packaging
- Steel degassing
- Thin film coating
- Vacuum metallurgy
- Low density wind tunnels
- Space simulation
- Vacuum impregnation
- Oil drying and degassing
- Pharmaceutical freeze drying
- CO₂ lasers

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