

EH MECHANICAL BOOSTER PUMPS

edwardsvacuum.com

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

GLOBAL CONTACTS

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