



HEP/EW



MOTOR BRUSHLESS INDUSTRIAL E.C.



High-efficiency wall-mounted axial fans fitted with industrial BRUSHLESS motor E.C.

Fibreglass-reinforced plastic impeller.

Fan:

- Airflow direction from motor to impeller.
- Impeller in polyamide 6 reinforced with fibreglass.
- Sheet steel base plate.
- Protection guard to prevent contacts according to standard UNE 100250
- Electronic variable speed (VSD), three-phase or single-phase, is supplied with fan.

Motor and electronic variable speed:

- High-efficiency Industrial Brushless Motors E.C. Fitted with electronic variable speed (VSD), adjustable via external control input 0-10V.
- It is advisable to install an electronic variable speed drive (VSD) outside the working area.
- The external signal can be supplied through a manual or automatic control with 0-10 V output.
- Electronic variable speed drive (VSD), available with single-phase 220-240 V 50/60 Hz input (VSD1/B type) or three-phase 380-415 V 50/60 Hz (VSD3/B type).
- By default, the electronic variable speed drive (VSD) is delivered programmed for constant speed.

Working fan temperature:

- -25 °C +60 °C.
- Working temperature (VSD): -25 °C +50 °C.

Finish:

- Anticorrosive finish in polyester resin polymerised at 190°C, after alkaline degreasing with nanotechnology treatment and phosphate-free.

On request:

- Motor, impeller and guard unit (version F)
- Motor-impeller unit (version G)
- Airflow direction from impeller to motor.



VARIABLE SPEED DRIVE
VSD: Variable Speed Drive.
• VSD1/B
• VSD3/B

Supply included with fan

CONTROL
Supply optional accessory

SUPPLY
VSD1/B:
220-240 V 50/60 Hz
VSD3/B:
380-415 V 50/60 Hz

Order code with variable speed drive (VSD) included

HEP/EW — 25 — 2/H — B — T — D

HEP/EW: High-efficiency wall-mounted axial fans "Efficient work"

Impeller diameter in cm.

Maximum speed:
2=2850 rpm
4=1410 rpm
6=960 rpm

H=High airflow
L=Low airflow

Industrial Brushless Motors E.C.

M: Fitted with VSD1/B, electronic variable speed, single phase power supply 220-240 V 50/60 Hz.
T: Fitted with VSD3/B, electronic variable speed, three-phase power supply 380-415 V 50/60 Hz.

D: Standard version, VSD supplied programmed for constant speed.
P: Supplied with VSD programmed for pressure control and Si-Presión pressure transmitter
K: Supplied with VSD programmed for pressure control and built into a BOXPRES KIT/B box.

Technical characteristics

| Model | Speed min/max (r/min) | Single-phase VSD 230 V50/60 Hz | | Three-phase VSD 400 V50/60 Hz | | Maximum electrical power (W) | Maximum Airflow min/max (m³/h) | Sound pressure level min/max dB(A) | Weight approx. (Kg) |
|---------------|-----------------------|--------------------------------|-------------|-------------------------------|-------------|------------------------------|--------------------------------|------------------------------------|---------------------|
| | | Maximum current input (A) | Model VSD | Maximum current input (A) | Model VSD | | | | |
| HEP/EW-25-2/H | 300 / 2850 | 2.09 | VSD1/B-0.37 | 0.61 | VSD3/B-0.75 | 255 | 240 / 2300 | 15 / 64 | 5.3 |
| HEP/EW-25-4/H | 300 / 1410 | 1.14 | VSD1/B-0.37 | 0.34 | VSD3/B-0.75 | 140 | 265 / 1250 | 18 / 52 | 4.5 |
| HEP/EW-31-2/H | 300 / 2850 | 2.86 | VSD1/B-0.37 | 0.84 | VSD3/B-0.75 | 345 | 420 / 4000 | 25 / 74 | 7.0 |
| HEP/EW-31-4/H | 300 / 1410 | 1.14 | VSD1/B-0.37 | 0.34 | VSD3/B-0.75 | 140 | 510 / 2400 | 21 / 55 | 5.7 |
| HEP/EW-35-2/H | 300 / 2850 | 4.08 | VSD1/B-0.37 | 1.20 | VSD3/B-0.75 | 495 | 635 / 6020 | 27 / 76 | 8.8 |
| HEP/EW-35-4/H | 300 / 1410 | 1.14 | VSD1/B-0.37 | 0.34 | VSD3/B-0.75 | 140 | 745 / 3500 | 24 / 58 | 7.1 |
| HEP/EW-40-4/H | 300 / 1410 | 2.79 | VSD1/B-0.37 | 0.82 | VSD3/B-0.75 | 340 | 1105 / 5200 | 27 / 61 | 10.6 |
| HEP/EW-40-6/H | 300 / 960 | 2.13 | VSD1/B-0.37 | 0.62 | VSD3/B-0.75 | 255 | 1095 / 3500 | 29 / 54 | 10.2 |
| HEP/EW-45-4/H | 300 / 1410 | 3.96 | VSD1/B-0.37 | 0.93 | VSD3/B-0.75 | 450 | 1555 / 7300 | 32 / 66 | 12.5 |
| HEP/EW-45-4/L | 300 / 1410 | 2.79 | VSD1/B-0.37 | 0.82 | VSD3/B-0.75 | 340 | 1235 / 5810 | 30 / 64 | 11.0 |
| HEP/EW-45-6/H | 300 / 960 | 2.13 | VSD1/B-0.37 | 0.62 | VSD3/B-0.75 | 255 | 1530 / 4900 | 31 / 56 | 11.4 |
| HEP/EW-50-4/H | 300 / 1410 | 5.82 | VSD1/B-0.75 | 1.37 | VSD3/B-1.5 | 660 | 2160 / 10150 | 35 / 69 | 15.0 |
| HEP/EW-50-4/L | 300 / 1410 | 2.79 | VSD1/B-0.37 | 0.82 | VSD3/B-0.75 | 340 | 1555 / 7300 | 33 / 67 | 13.0 |
| HEP/EW-50-6/H | 300 / 960 | 2.13 | VSD1/B-0.37 | 0.62 | VSD3/B-0.75 | 255 | 1920 / 6150 | 34 / 59 | 13.2 |



EFFICIENT WORK

EKB-Produkter AB



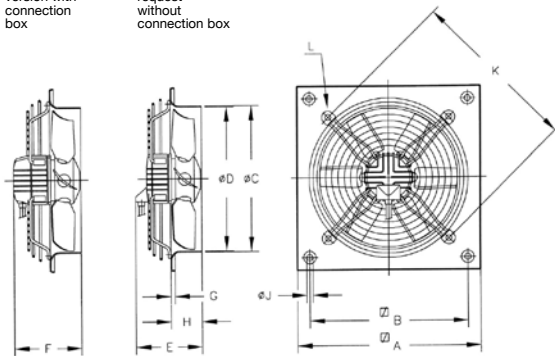
Technical characteristics

| Model | Speed min/max (r/min) | Single-phase VSD 230 V50/60 Hz | | Three-phase VSD 400 V50/60 Hz | | Maximum electrical power (W) | Maximum airflow min/max (m³/h) | Sound pressure level min/max dB(A) | Weight approx. (Kg) |
|---------------|-----------------------|--------------------------------|-------------|-------------------------------|-------------|------------------------------|--------------------------------|------------------------------------|---------------------|
| | | Maximum current input (A) | Model VSD | Maximum current input (A) | Model VSD | | | | |
| HEP/EW-56-4/H | 300 / 1410 | 7.94 | VSD1/B-0.75 | 1.87 | VSD3/B-1.5 | 905 | 2725 / 12800 | 38 / 72 | 21.0 |
| HEP/EW-56-4/L | 300 / 1410 | 5.82 | VSD1/B-0.75 | 1.37 | VSD3/B-1.5 | 660 | 2320 / 10900 | 36 / 70 | 19.0 |
| HEP/EW-56-6/H | 300 / 960 | 2.93 | VSD1/B-0.37 | 0.68 | VSD3/B-0.75 | 330 | 2580 / 8250 | 37 / 62 | 17.0 |
| HEP/EW-63-4/H | 300 / 1410 | 11.25 | VSD1/B-0.75 | 2.65 | VSD3/B-1.5 | 1295 | 3980 / 18700 | 48 / 82 | 25.8 |
| HEP/EW-63-4/L | 300 / 1410 | 7.94 | VSD1/B-0.75 | 1.87 | VSD3/B-1.5 | 905 | 3510 / 16500 | 41 / 75 | 23.0 |
| HEP/EW-63-6/H | 300 / 960 | 4.28 | VSD1/B-0.75 | 1.00 | VSD3/B-1.5 | 480 | 3765 / 12050 | 40 / 65 | 20.2 |

Dimensions in mm

Standard version with connection box

Version on request without connection box



| | A | B | C | D | E | F | G | H | J | K | L |
|---------------|-----|-----|-------|-----|-----|-----|----|------|------|-----|-----|
| HEP/EW-25-2/H | 330 | 275 | 262 | 260 | 189 | 213 | 11 | 56 | 8.5 | 310 | M.8 |
| HEP/EW-25-4/H | 330 | 275 | 262 | 260 | 179 | 203 | 11 | 56 | 8.5 | 310 | M.8 |
| HEP/EW-31-2/H | 400 | 336 | 310.5 | 308 | 190 | 214 | 11 | 75 | 10.5 | 380 | M.8 |
| HEP/EW-31-4/H | 400 | 336 | 310.5 | 308 | 180 | 204 | 11 | 75 | 10.5 | 380 | M.8 |
| HEP/EW-35-2/H | 465 | 390 | 362.5 | 360 | 217 | 241 | 11 | 86 | 10.5 | 450 | M.8 |
| HEP/EW-35-4/H | 465 | 390 | 362.5 | 360 | 187 | 211 | 11 | 86 | 10.5 | 450 | M.8 |
| HEP/EW-40-4/H | 532 | 452 | 412.5 | 410 | 206 | 226 | 11 | 97.5 | 10.5 | 500 | M.8 |
| HEP/EW-40-6/H | 532 | 452 | 412.5 | 410 | 186 | 205 | 11 | 97.5 | 10.5 | 500 | M.8 |
| HEP/EW-45-4/H | 596 | 504 | 462.5 | 460 | 214 | 234 | 11 | 105 | 10.5 | 560 | M.8 |
| HEP/EW-45-4/L | 596 | 504 | 462.5 | 460 | 214 | 234 | 11 | 105 | 10.5 | 560 | M.8 |
| HEP/EW-45-6/H | 596 | 504 | 462.5 | 460 | 199 | 218 | 11 | 105 | 10.5 | 560 | M.8 |
| HEP/EW-50-4/H | 665 | 562 | 516.5 | 514 | 255 | 275 | 11 | 115 | 10.5 | 640 | M.8 |
| HEP/EW-50-4/L | 665 | 562 | 516.5 | 514 | 240 | 260 | 11 | 115 | 10.5 | 640 | M.8 |
| HEP/EW-50-6/H | 665 | 562 | 516.5 | 514 | 235 | 254 | 11 | 115 | 10.5 | 640 | M.8 |
| HEP/EW-56-4/H | 710 | 630 | 563 | 560 | 287 | 306 | 15 | 115 | 10.5 | 721 | M.8 |
| HEP/EW-56-4/L | 710 | 630 | 563 | 560 | 267 | 286 | 15 | 115 | 10.5 | 721 | M.8 |
| HEP/EW-56-6/H | 710 | 630 | 563 | 560 | 247 | 266 | 15 | 115 | 10.5 | 721 | M.8 |
| HEP/EW-63-4/H | 800 | 710 | 638 | 635 | 320 | 340 | 15 | 140 | 10.5 | 820 | M.8 |
| HEP/EW-63-4/L | 800 | 710 | 638 | 635 | 320 | 340 | 15 | 140 | 10.5 | 820 | M.8 |
| HEP/EW-63-6/H | 800 | 710 | 638 | 635 | 257 | 276 | 15 | 140 | 10.5 | 820 | M.8 |

Acoustic features at maximum speed

The specified values are determined according to free field measurements of sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

| Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---------------|----|-----|-----|-----|------|------|------|------|---------------|----|-----|-----|-----|------|------|------|------|
| HEP/EW-25-2/H | 39 | 52 | 64 | 68 | 70 | 70 | 66 | 58 | HEP/EW-45-6/H | 33 | 47 | 59 | 62 | 64 | 65 | 61 | 52 |
| HEP/EW-25-4/H | 27 | 40 | 52 | 56 | 58 | 58 | 54 | 46 | HEP/EW-50-4/H | 46 | 60 | 72 | 75 | 77 | 78 | 74 | 65 |
| HEP/EW-31-2/H | 49 | 62 | 74 | 78 | 80 | 80 | 76 | 68 | HEP/EW-50-4/L | 44 | 58 | 70 | 73 | 75 | 76 | 72 | 63 |
| HEP/EW-31-4/H | 30 | 43 | 55 | 59 | 61 | 61 | 57 | 49 | HEP/EW-50-6/H | 36 | 50 | 62 | 65 | 67 | 68 | 64 | 55 |
| HEP/EW-35-2/H | 51 | 64 | 76 | 80 | 82 | 82 | 78 | 70 | HEP/EW-56-4/H | 49 | 63 | 75 | 78 | 80 | 81 | 77 | 68 |
| HEP/EW-35-4/H | 33 | 46 | 58 | 62 | 64 | 64 | 60 | 52 | HEP/EW-56-4/L | 47 | 61 | 73 | 76 | 78 | 79 | 75 | 66 |
| HEP/EW-40-4/H | 36 | 49 | 61 | 65 | 67 | 67 | 63 | 55 | HEP/EW-56-6/H | 39 | 53 | 65 | 68 | 70 | 71 | 67 | 58 |
| HEP/EW-40-6/H | 29 | 42 | 54 | 58 | 60 | 60 | 56 | 48 | HEP/EW-63-4/H | 61 | 75 | 87 | 90 | 92 | 92 | 89 | 80 |
| HEP/EW-45-4/H | 43 | 57 | 69 | 72 | 74 | 75 | 71 | 62 | HEP/EW-63-4/L | 54 | 68 | 80 | 83 | 85 | 85 | 82 | 73 |
| HEP/EW-45-4/L | 41 | 55 | 67 | 70 | 72 | 73 | 69 | 60 | HEP/EW-63-6/H | 44 | 58 | 70 | 73 | 75 | 75 | 72 | 63 |



Erp. Characteristic curves and ErP data

See HEP/EW-HEPT/EW model characteristic curves

Accessories

See accessories section.

