

CRF/EW



E.C. BRUSHLESS MOTOR WITH BUILT-IN VSD



Roof-mounted centrifugal extractor fans with low noise level, fitted with external E.C. brushless rotor motor

Roof-mounted centrifugal extractor fans with low noise level and external rotor motor, fitted with an E.C. Brushless industrial motor and a built-in speed regulating power meter.

Fan:

- Made of galvanised sheet steel.
- Turbine with reaction blades made of plastic material.
- Bird control grille.
- Folding body for ease of inspection and maintenance.

Motor:

- High efficiency EC external rotor motors regulated by 0-10V signal. IP54 protection.
- Single-phase 230V-50/60Hz and three-phase 400V-50/60Hz.
- Maximum temperature of air to be carried: -25°C +50°C.

Finish:

- Corrosion-proof galvanised sheet steel.

Order code

CRF/EW — 315 — M/L

CRF/EW: Roof-mounted centrifugal extractor fans with low noise level and EC external rotor motor.

Turbine diameter in mm

M: Single-phase
T: Three-phase

L: Low flow rate
M: Medium flow rate
H: High flow rate

Technical characteristics

| Model | Maximum speed (r/min) | Maximum current admissible (A) | | Installed electric power (kW) | Maximum flow rate (m³/h) | NPS at maximum speed (dBA) ⁽¹⁾ | | Approx. weight (Kg) | ERP |
|----------------|-----------------------|--------------------------------|------|-------------------------------|--------------------------|---|-----------|---------------------|------|
| | | 230V | 400V | | | Aspiration | Discharge | | |
| CRF/EW-190-M | 3200 | 0.75 | | 0.083 | 695 | 42 | 45 | 10 | 2018 |
| CRF/EW-250-M | 2510 | 1.40 | | 0.170 | 1305 | 44 | 47 | 12 | 2018 |
| CRF/EW-315-M/L | 1524 | 1.20 | | 0.150 | 2170 | 35 | 38 | 16 | 2018 |
| CRF/EW-315-M/H | 2360 | 2.20 | | 0.500 | 3365 | 49 | 52 | 18 | 2018 |
| CRF/EW-400-M/L | 1170 | 1.10 | | 0.250 | 4020 | 39 | 42 | 26 | 2018 |
| CRF/EW-400-M/M | 1500 | 2.20 | | 0.500 | 5285 | 45 | 48 | 27 | 2018 |
| CRF/EW-400-M/H | 1700 | 3.30 | | 0.750 | 5830 | 49 | 52 | 28 | 2018 |
| CRF/EW-400-T | 2060 | | 2.10 | 1.320 | 6330 | 51 | 58 | 29 | 2018 |
| CRF/EW-500-M | 1100 | 3.30 | | 0.750 | 7950 | 43 | 49 | 48 | 2018 |
| CRF/EW-500-T/L | 1350 | | 2.10 | 1.320 | 9560 | 48 | 54 | 50 | 2018 |
| CRF/EW-500-T/H | 1700 | | 4.00 | 2.650 | 10625 | 53 | 60 | 59 | 2018 |

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres and at 2/3 of the maximum flow rate (2/3 Qmax).

Acoustic characteristics

Noise power spectrum Lw(A) in dB(A) per Hz frequency band.

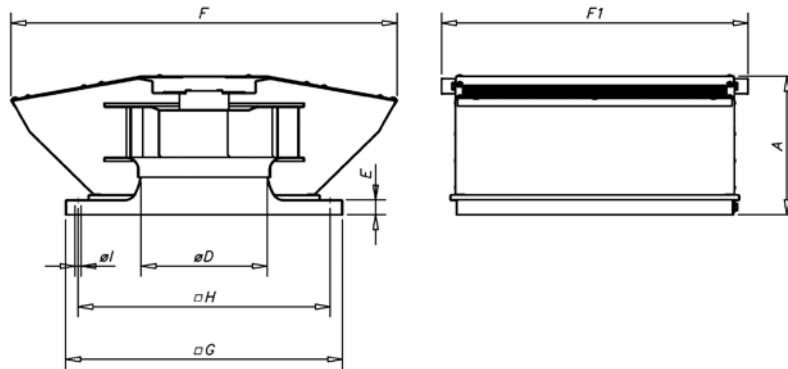
Values taken during aspiration with 2/3 maximum flow rate (2/3Qmax)

| Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---------|----|-----|-----|-----|------|------|------|------|
| 190-M | 28 | 45 | 51 | 58 | 60 | 61 | 57 | 52 |
| 250-M | 34 | 49 | 55 | 60 | 62 | 61 | 59 | 50 |
| 315-M/L | 29 | 51 | 48 | 53 | 53 | 51 | 47 | 40 |
| 315-M/H | 46 | 61 | 63 | 66 | 65 | 66 | 61 | 55 |
| 400-M/L | 35 | 55 | 52 | 57 | 55 | 53 | 51 | 53 |
| 400-M/M | 46 | 60 | 57 | 63 | 61 | 59 | 54 | 57 |
| 400-M/H | 39 | 63 | 62 | 68 | 65 | 63 | 58 | 60 |
| 400-T | 40 | 53 | 65 | 71 | 68 | 68 | 63 | 63 |
| 500-M | 41 | 55 | 56 | 60 | 62 | 61 | 57 | 50 |
| 500-T/L | 45 | 57 | 60 | 65 | 65 | 65 | 62 | 56 |
| 500-T/H | 50 | 63 | 66 | 70 | 71 | 71 | 68 | 62 |
| 560-T/L | 50 | 67 | 71 | 73 | 72 | 69 | 66 | 66 |
| 560-T/H | 54 | 71 | 75 | 76 | 76 | 72 | 70 | 69 |
| 630-T/L | 57 | 68 | 73 | 71 | 74 | 71 | 67 | 61 |
| 630-T/H | 50 | 70 | 76 | 77 | 83 | 82 | 78 | 75 |

Values taken during discharge with 2/3 maximum flow rate (2/3Qmax)

| Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---------|----|-----|-----|-----|------|------|------|------|
| 190-M | 31 | 48 | 54 | 61 | 63 | 64 | 60 | 55 |
| 250-M | 37 | 52 | 58 | 63 | 65 | 64 | 62 | 53 |
| 315-M/L | 32 | 54 | 51 | 56 | 56 | 54 | 50 | 43 |
| 315-M/H | 49 | 64 | 66 | 69 | 68 | 69 | 64 | 58 |
| 400-M/L | 38 | 58 | 55 | 60 | 58 | 56 | 54 | 56 |
| 400-M/M | 49 | 63 | 60 | 66 | 64 | 62 | 57 | 60 |
| 400-M/H | 42 | 66 | 65 | 71 | 68 | 66 | 61 | 63 |
| 400-T | 45 | 56 | 68 | 73 | 78 | 76 | 70 | 66 |
| 500-M | 43 | 56 | 59 | 67 | 69 | 65 | 59 | 53 |
| 500-T/L | 46 | 59 | 63 | 71 | 75 | 69 | 65 | 59 |
| 500-T/H | 52 | 65 | 69 | 77 | 81 | 75 | 71 | 65 |
| 560-T/L | 53 | 66 | 70 | 75 | 80 | 73 | 69 | 65 |
| 560-T/H | 57 | 70 | 73 | 79 | 83 | 77 | 72 | 68 |
| 630-T/L | 60 | 71 | 75 | 80 | 81 | 75 | 70 | 64 |
| 630-T/H | 57 | 80 | 88 | 86 | 90 | 87 | 82 | 77 |

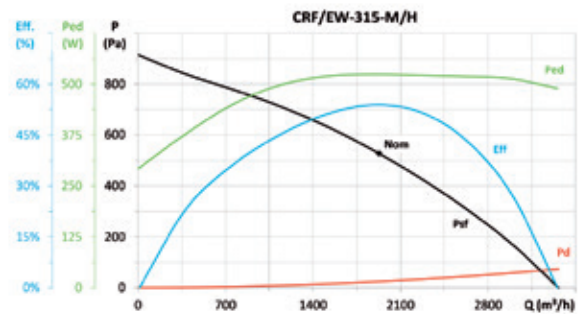
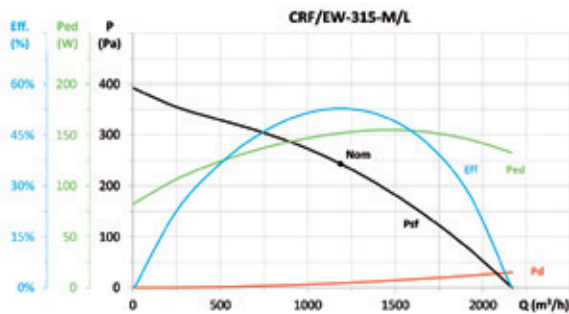
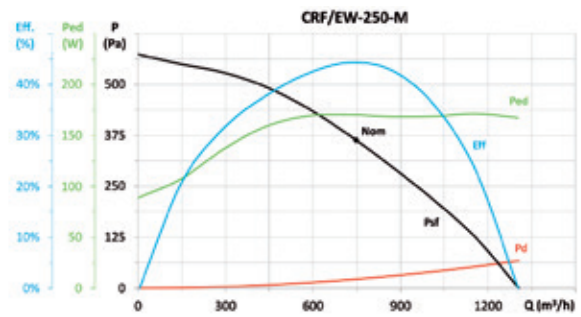
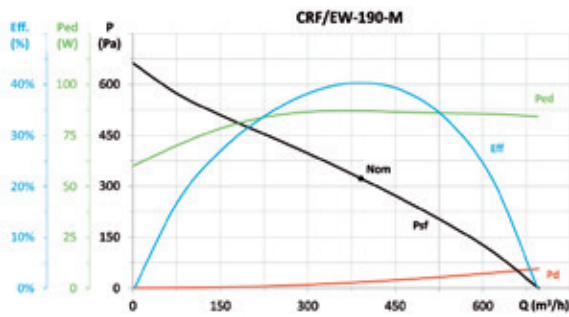
Dimensions mm



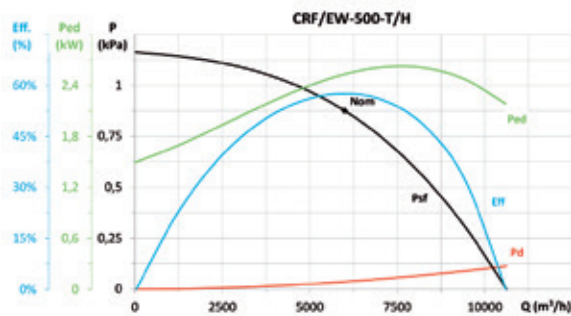
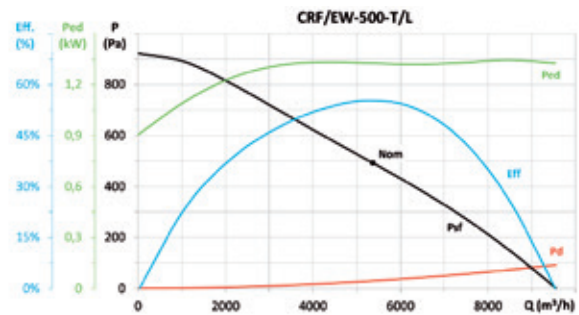
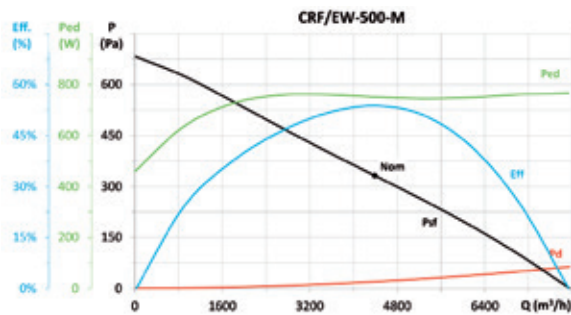
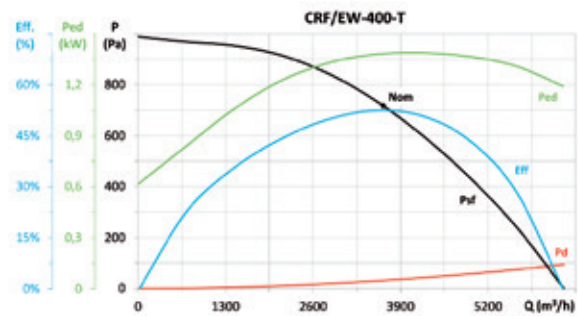
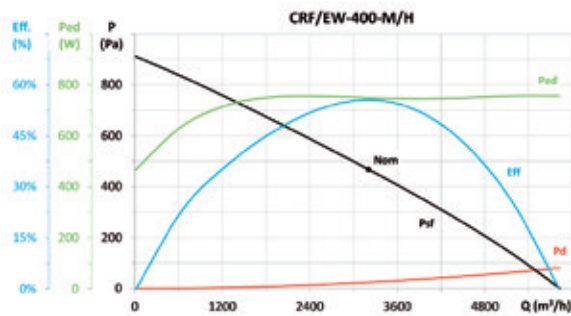
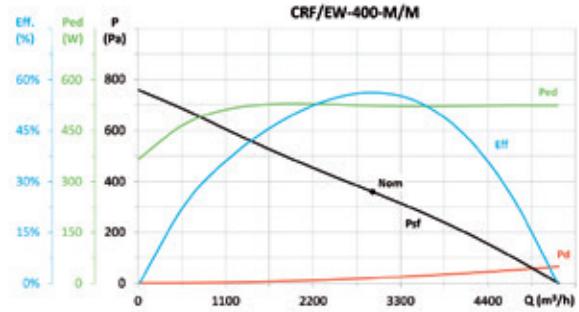
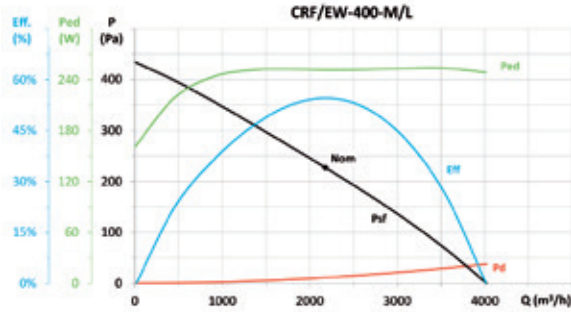
| Model | A | ØD* | E | F | F1 | G | H | øl |
|------------|-----|-----|----|------|-----|-----|-----|----|
| CRF/EW-190 | 185 | 200 | 30 | 475 | 420 | 355 | 305 | 12 |
| CRF/EW-250 | 185 | 250 | 30 | 515 | 460 | 400 | 350 | 12 |
| CRF/EW-315 | 265 | 250 | 30 | 690 | 510 | 450 | 400 | 12 |
| CRF/EW-400 | 280 | 355 | 30 | 780 | 620 | 560 | 510 | 12 |
| CRF/EW-500 | 400 | 500 | 30 | 1110 | 775 | 710 | 660 | 12 |

(*) Recommended pipe nominal diameter

Characteristic curves and ErP data



Characteristic curves and ErP data



Accessories

