

CENTRIFUGAL IN-LINE FANS
VENT Series



VENT-100 to VENT-315



VENT-355 and VENT-400

Range of in-line duct centrifugal fans, manufactured from high grade corrosion resistant pressed galvanised steel and supplied as standard with a pre-wired wiring junction box and a robust mounting foot. All models include an enclosed type, single-phase external rotor motor with factory matched backward curved nonstalling impeller. (1) Models 355 and 400 are manufactured in sheet steel protected against corrosion by cataforesis primer and black polyester paint finish.

Motors

100 - 315 models: Motors are IP44, class B insulation with ball bearings and safety thermal overload protection.
355 and 400 models: Motors are IP54, class F, with ball bearings and safety thermal overload protection.

Electrical supply:

Single phase 230V-50/60Hz.

Three phase 230/400V-50Hz (models 355 and 400). (See characteristics chart).

All models are speed controllable.

Additional Information

"L" version: High performance models.
"B" Version: Standard performance models for lower noise level requirements.
Impellers from 100 to 160 models are manufactured from injection moulded plastic.



Mounting foot

Supplied with unit as standard (100-315 models).



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CENTRIFUGAL IN-LINE FANS VENT Series



TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

| Model | Voltage (V-Hz) | Speed (rpm) | Maximum absorbed power (W) | Maximum absorbed current (A) | Maximum airflow (m ³ /h) | Sound pressure level at 3m** (dB(A)) | Minimum ambient temperature (°C) | Maximum ambient temperature (°C) | Weight (kg) | Wiring diagram* (n°) |
|-----------|----------------|-------------|----------------------------|------------------------------|-------------------------------------|--------------------------------------|----------------------------------|----------------------------------|-------------|----------------------|
| VENT-100B | 230V-50/60Hz | 2100 | 48 | 0,22 | 235 | 40 | -40 | 40 | 3 | 19 |
| VENT-100L | 230V-50/60Hz | 2500 | 75 | 0,33 | 290 | 48 | -40 | 60 | 3 | 19 |
| VENT-125B | 230V-50/60Hz | 1900 | 44 | 0,21 | 280 | 40 | -40 | 40 | 3 | 19 |
| VENT-125L | 230V-50/60Hz | 2450 | 80 | 0,35 | 410 | 48 | -40 | 60 | 3 | 19 |
| VENT-150B | 230V-50/60Hz | 2100 | 70 | 0,30 | 560 | 48 | -40 | 60 | 5 | 19 |
| VENT-150L | 230V-50/60Hz | 2700 | 120 | 0,53 | 700 | 53 | -40 | 60 | 5 | 19 |
| VENT-160B | 230V-50/60Hz | 2200 | 70 | 0,30 | 600 | 47 | -40 | 60 | 5 | 19 |
| VENT-160L | 230V-50/60Hz | 2750 | 130 | 0,55 | 760 | 54 | -40 | 60 | 5 | 19 |
| VENT-200B | 230V-50/60Hz | 2250 | 125 | 0,50 | 830 | 48 | -40 | 60 | 5 | 19 |
| VENT-200L | 230V-50/60Hz | 2600 | 170 | 0,72 | 1000 | 53 | -40 | 60 | 5 | 19 |
| VENT-250B | 230V-50/60Hz | 2300 | 130 | 0,55 | 935 | 50 | -40 | 60 | 6 | 19 |
| VENT-250L | 230V-50/60Hz | 2750 | 180 | 0,80 | 1100 | 54 | -40 | 60 | 6 | 19 |
| VENT-315B | 230V-50/60Hz | 2400 | 230 | 1,00 | 1475 | 49 | -40 | 50 | 8 | 19 |
| VENT-315L | 230V-50/60Hz | 2700 | 315 | 1,30 | 1630 | 57 | -40 | 50 | 8 | 19 |
| VENT-355L | 230V-50/60Hz | 1390 | 290 | 1,20 | 2680 | 51 | -40 | 70 | 17 | 19 |
| VENT-400L | 230V-50/60Hz | 1340 | 400 | 1,60 | 3320 | 54 | -40 | 50 | 22 | 20 |

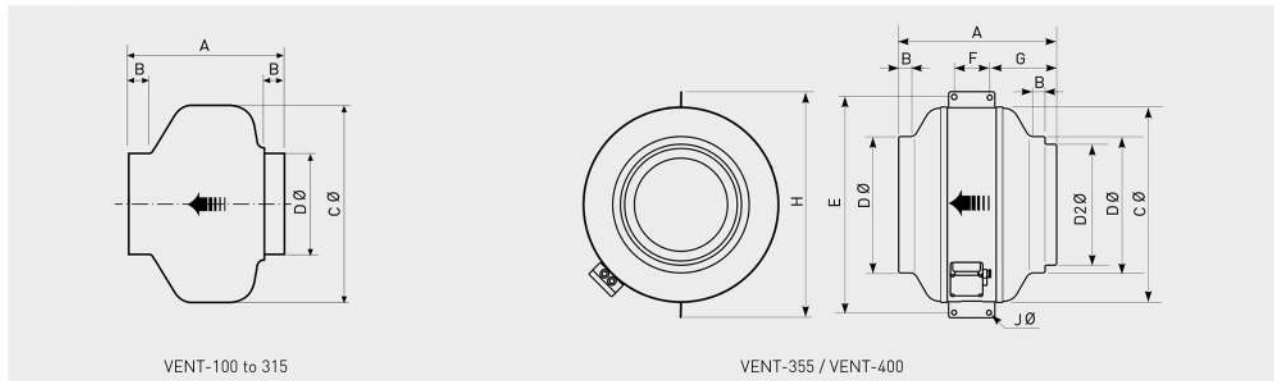
| | | | | | | | | | | |
|-------------|---------------|------|-----|---------|------|----|-----|----|----|----|
| VENT-355L-T | 230/400V-50Hz | 1400 | 290 | 1,4/0,8 | 2600 | 51 | -40 | 70 | 17 | 21 |
| VENT-400L-T | 230/400V-50Hz | 1400 | 450 | 1,9/1,1 | 3460 | 54 | -40 | 50 | 22 | 21 |

* See section of Wiring Diagrams.

** Sound pressure level in dB(A) measured at 3m from the fan inlet, in free field condition, at the medium duty point of the performance curve.

DIMENSIONS (mm)

Mounting with the motor in horizontal position.



| Model | A | B | C | D | D2 | E* | F* | G* | H* | J* |
|----------|-----|----|-----|-----|-----|-----|-----|-----|-----|------|
| VENT-100 | 194 | 23 | 243 | 98 | | | | | | |
| VENT-125 | 195 | 27 | 243 | 123 | | | | | | |
| VENT-150 | 214 | 24 | 333 | 147 | | | | | | |
| VENT-160 | 222 | 28 | 333 | 157 | | | | | | |
| VENT-200 | 223 | 25 | 333 | 198 | | | | | | |
| VENT-250 | 206 | 27 | 333 | 248 | | | | | | |
| VENT-315 | 230 | 25 | 401 | 312 | | | | | | |
| VENT-355 | 410 | 25 | 508 | 354 | 314 | 552 | 100 | 170 | 587 | 10,5 |
| VENT-400 | 431 | 25 | 568 | 399 | 354 | 628 | 100 | 185 | 647 | 10,5 |

* Support brackets supplied in the packaging, not fitted on the fan.

CENTRIFUGAL IN-LINE FANS VENT Series



ACOUSTIC CHARACTERISTICS

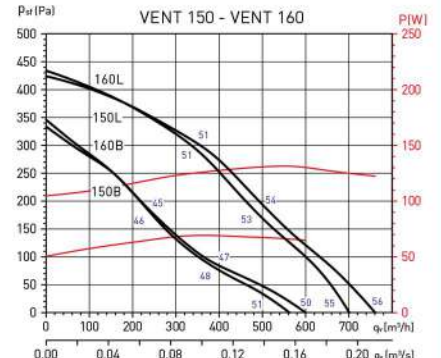
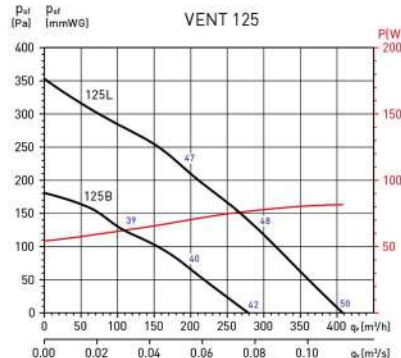
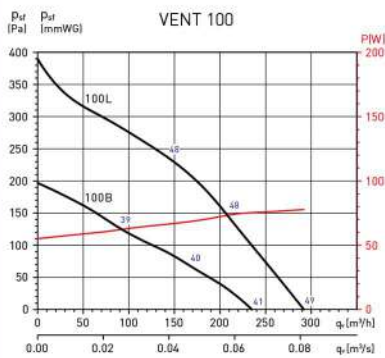
Sound power level spectrums (LwA) at the maximum airflow (0Pa).

| Model | LwA | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|-------|----------|----|-----|-----|-----|------|------|------|------|-----|
| 100L | Inlet | 44 | 53 | 63 | 60 | 67 | 61 | 52 | 41 | 70 |
| | Outlet | 42 | 48 | 67 | 61 | 63 | 61 | 55 | 44 | 70 |
| | Radiated | 42 | 44 | 53 | 51 | 46 | 45 | 40 | 33 | 56 |
| 100B | Inlet | 37 | 43 | 54 | 49 | 59 | 54 | 48 | 39 | 61 |
| | Outlet | 38 | 42 | 56 | 48 | 53 | 49 | 38 | 60 | 60 |
| | Radiated | 36 | 33 | 32 | 36 | 40 | 38 | 34 | 26 | 45 |
| 125L | Inlet | 38 | 47 | 59 | 67 | 65 | 62 | 56 | 44 | 70 |
| | Outlet | 38 | 45 | 61 | 64 | 63 | 63 | 56 | 46 | 69 |
| | Radiated | 37 | 43 | 45 | 51 | 47 | 45 | 42 | 33 | 54 |
| 125B | Inlet | 33 | 43 | 55 | 57 | 57 | 55 | 51 | 41 | 62 |
| | Outlet | 34 | 41 | 57 | 53 | 55 | 56 | 52 | 41 | 62 |
| | Radiated | 34 | 36 | 35 | 38 | 41 | 39 | 37 | 28 | 46 |
| 150L | Inlet | 40 | 45 | 63 | 73 | 69 | 64 | 61 | 46 | 75 |
| | Outlet | 40 | 45 | 63 | 66 | 67 | 64 | 61 | 47 | 72 |
| | Radiated | 40 | 37 | 46 | 59 | 51 | 50 | 43 | 30 | 60 |
| 150B | Inlet | 36 | 44 | 58 | 70 | 64 | 60 | 56 | 40 | 71 |
| | Outlet | 36 | 43 | 55 | 62 | 62 | 59 | 56 | 40 | 67 |
| | Radiated | 36 | 38 | 40 | 53 | 46 | 45 | 41 | 29 | 55 |
| 160L | Inlet | 39 | 45 | 63 | 74 | 70 | 67 | 63 | 48 | 77 |
| | Outlet | 43 | 45 | 61 | 67 | 68 | 65 | 62 | 49 | 72 |
| | Radiated | 43 | 36 | 44 | 60 | 52 | 51 | 45 | 32 | 61 |
| 160B | Inlet | 35 | 41 | 56 | 69 | 63 | 60 | 56 | 42 | 71 |
| | Outlet | 35 | 42 | 54 | 63 | 61 | 59 | 57 | 42 | 67 |
| | Radiated | 35 | 37 | 37 | 52 | 45 | 45 | 42 | 29 | 54 |

| Model | LwA | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|-------|----------|----|-----|-----|-----|------|------|------|------|-----|
| 200L | Inlet | 42 | 52 | 63 | 70 | 69 | 68 | 66 | 60 | 75 |
| | Outlet | 43 | 51 | 63 | 70 | 69 | 69 | 68 | 59 | 75 |
| | Radiated | 43 | 48 | 40 | 51 | 53 | 52 | 49 | 39 | 58 |
| 200B | Inlet | 41 | 53 | 60 | 67 | 66 | 64 | 63 | 52 | 72 |
| | Outlet | 42 | 51 | 61 | 65 | 66 | 66 | 65 | 53 | 72 |
| | Radiated | 42 | 42 | 34 | 46 | 48 | 53 | 46 | 37 | 56 |
| 250L | Inlet | 43 | 57 | 67 | 71 | 72 | 70 | 70 | 60 | 78 |
| | Outlet | 42 | 53 | 67 | 73 | 75 | 75 | 72 | 62 | 80 |
| | Radiated | 36 | 52 | 37 | 53 | 53 | 51 | 50 | 38 | 59 |
| 250B | Inlet | 42 | 53 | 62 | 68 | 69 | 66 | 66 | 57 | 74 |
| | Outlet | 39 | 48 | 62 | 70 | 70 | 69 | 67 | 59 | 76 |
| | Radiated | 38 | 43 | 36 | 52 | 48 | 50 | 48 | 42 | 56 |
| 315L | Inlet | 43 | 61 | 72 | 79 | 79 | 79 | 73 | 71 | 85 |
| | Outlet | 56 | 61 | 74 | 81 | 82 | 80 | 74 | 73 | 86 |
| | Radiated | 49 | 58 | 51 | 61 | 65 | 62 | 58 | 52 | 69 |
| 315B | Inlet | 40 | 56 | 69 | 71 | 73 | 73 | 68 | 68 | 79 |
| | Outlet | 40 | 48 | 72 | 73 | 78 | 77 | 71 | 72 | 82 |
| | Radiated | 39 | 40 | 48 | 50 | 54 | 58 | 54 | 51 | 61 |
| 355L | Inlet | 40 | 57 | 68 | 71 | 71 | 67 | 59 | 48 | 76 |
| | Outlet | 42 | 59 | 62 | 69 | 70 | 68 | 60 | 50 | 74 |
| | Radiated | 41 | 55 | 43 | 50 | 55 | 51 | 42 | 29 | 59 |
| 400L | Inlet | 42 | 59 | 67 | 73 | 77 | 64 | 56 | 47 | 79 |
| | Outlet | 45 | 63 | 66 | 73 | 82 | 67 | 58 | 49 | 83 |
| | Radiated | 35 | 50 | 54 | 59 | 67 | 53 | 44 | 35 | 68 |

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
- p_{st} : Static pressure in $mmWG$ and Pa .
- Dry air at $20^\circ C$ and 760 $mmHg$.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
- Sound pressure level in $dB(A)$ measured at $3m$ from the fan inlet, in free field condition.

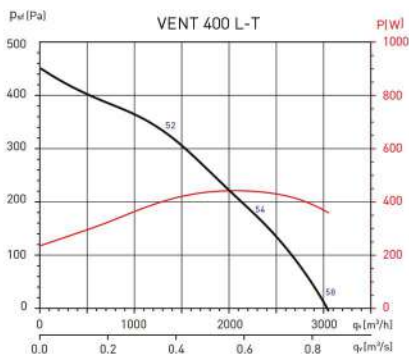
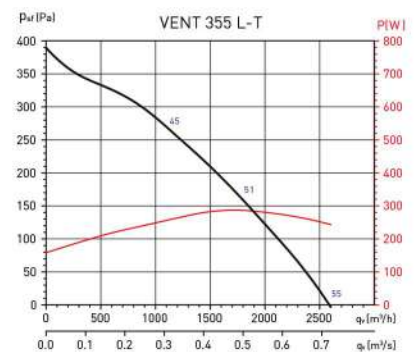
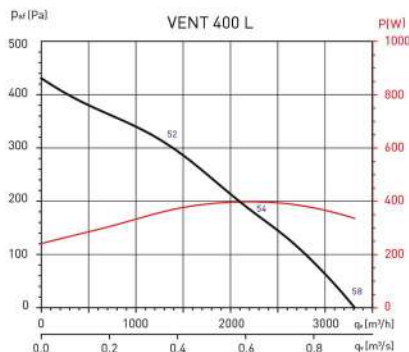
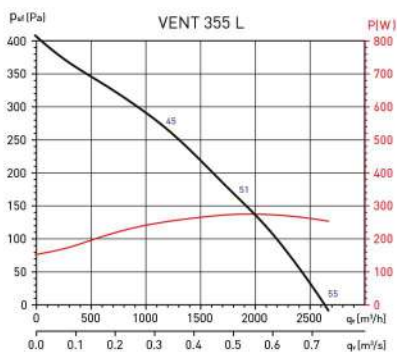
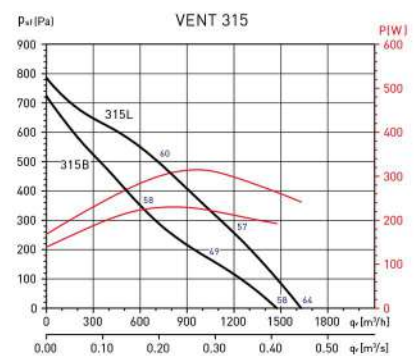
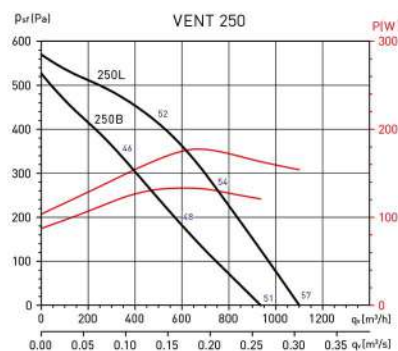
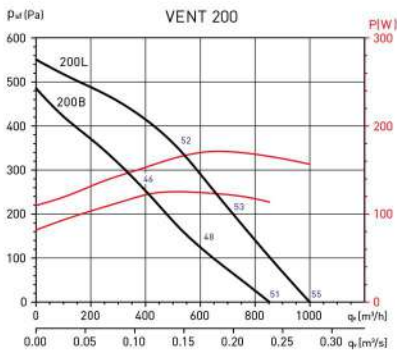


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