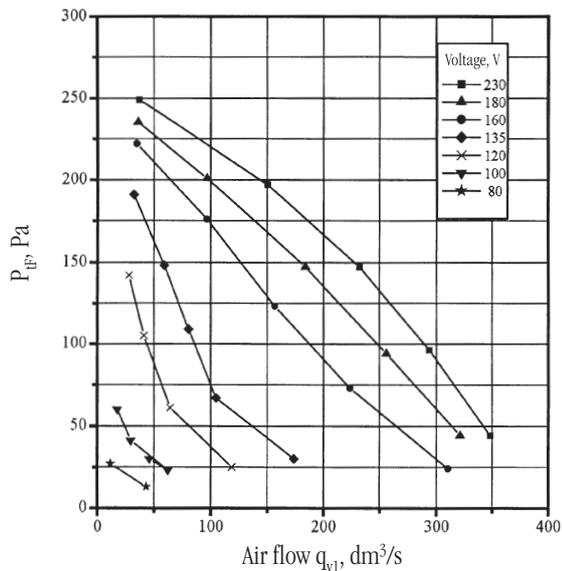


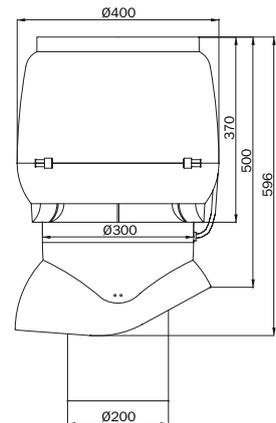
XL-Roof fans E310



310P/200/IS/700-R4E
VTT Testing report
No RTE 1814/00



E310P/200/IS/500



[More about product](#)

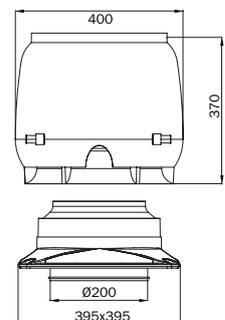
NOISE LEVEL

| E310P/200/IS/700 | 100V | 120V | 135V | 160V | 180V | 230V | |
|------------------|--------|-------|-------|-------|-------|-------|-------|
| q_{v1} | dm³/s | 46.0 | 118.4 | 173.6 | 223.8 | 256.1 | 294.0 |
| P_g | Pa | 30 | 25 | 30 | 74 | 94 | 97 |
| P_e | W | 50.0 | 72.3 | 88.0 | 107.0 | 112.7 | 130.0 |
| η_{IE} | - | 0.027 | 0.041 | 0.059 | 0.154 | 0.214 | 0.218 |
| n | 1/min | 535 | 634 | 807 | 1129 | 1283 | 1393 |
| L_{w63} | dB | 44.4 | 47.8 | 55.7 | 54.0 | 56.3 | 58.7 |
| L_{w125} | dB | 55.3 | 55.2 | 59.1 | 63.8 | 69.5 | 70.4 |
| L_{w250} | dB | 43.2 | 48.8 | 55.0 | 62.5 | 65.9 | 67.7 |
| L_{w500} | dB | 49.0 | 55.6 | 56.0 | 63.0 | 65.8 | 69.3 |
| L_{w1000} | dB | 41.1 | 43.1 | 48.2 | 54.7 | 58.2 | 61.0 |
| L_{w2000} | dB | 23.3 | 28.9 | 39.4 | 50.1 | 54.1 | 56.6 |
| L_{w4000} | dB | * | 20.2 | 30.1 | 41.7 | 46.2 | 49.0 |
| L_{w8000} | dB | * | * | 19.7 | 34.9 | 40.0 | 43.1 |
| L_w | dB | 56.8 | 59.3 | 62.9 | 68.4 | 72.5 | 74.5 |
| L_A | dB (A) | 47.1 | 52.1 | 54.7 | 61.8 | 65.1 | 68.0 |

ELECTRICAL DESIGN

| | |
|------------------|--------------------------|
| Fan Type | E310-R4E |
| Power Input | 105W |
| Current | 0.47A |
| Nominal Voltage | 230V/ 50Hz |
| Speed | 1430r/min |
| Capacitor | 4 μ F |
| Fan Type | R4E 310-AF |
| Speed Controller | Thyristor or transformer |

E310S/200



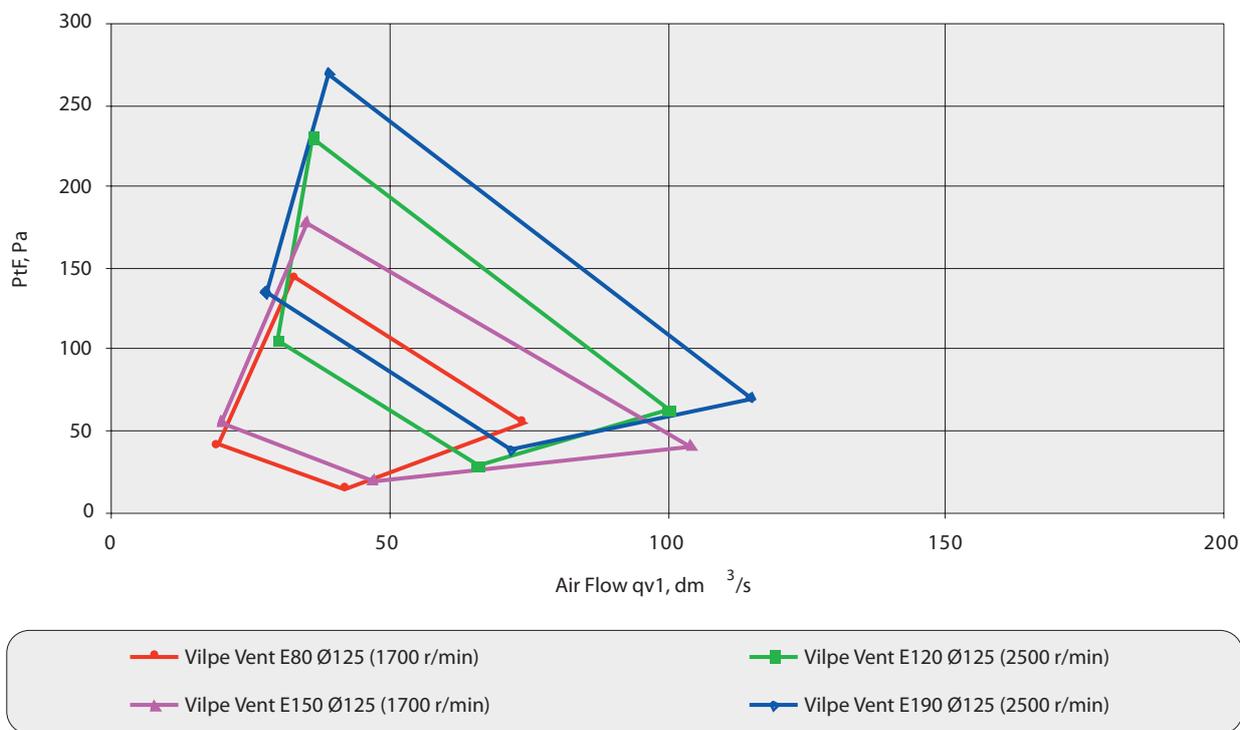
[More about product](#)

Roof fans table

| Roof Fans | | Air Flow q_{v1} , dm ³ /s | | | | | | | | | | | | | Rotation speed r/min | | |
|-------------|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|--|------|
| | | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 350 | | | |
| E80 | Ø125 | 160 | 113 | 57 | | | | | | | | | | | | | 1700 |
| E120 | Ø125 | 240 | 200 | 135 | 65 | | | | | | | | | | | | 2450 |
| E150 | Ø125 | 190 | 149 | 105 | 50 | | | | | | | | | | | | 1700 |
| E190 | Ø125 | 285 | 248 | 185 | 120 | 85 | 38 | | | | | | | | | | 2450 |
| E220 | Ø160 | - | 295 | 262 | 224 | 180 | 147 | 110 | 70 | | | | | | | | 2600 |
| E250 | Ø200 | - | 480 | 445 | 405 | 370 | 325 | 277 | 225 | 175 | 130 | 75 | | | | | 2600 |
| E280 | Ø200 | - | 640 | 585 | 540 | 500 | 460 | 425 | 380 | 335 | 300 | 270 | 230 | 175 | | | 2700 |
| E310 | Ø200 | - | 240 | 230 | 220 | 210 | 200 | 185 | 165 | 150 | 130 | 115 | 90 | 45 | | | 1430 |

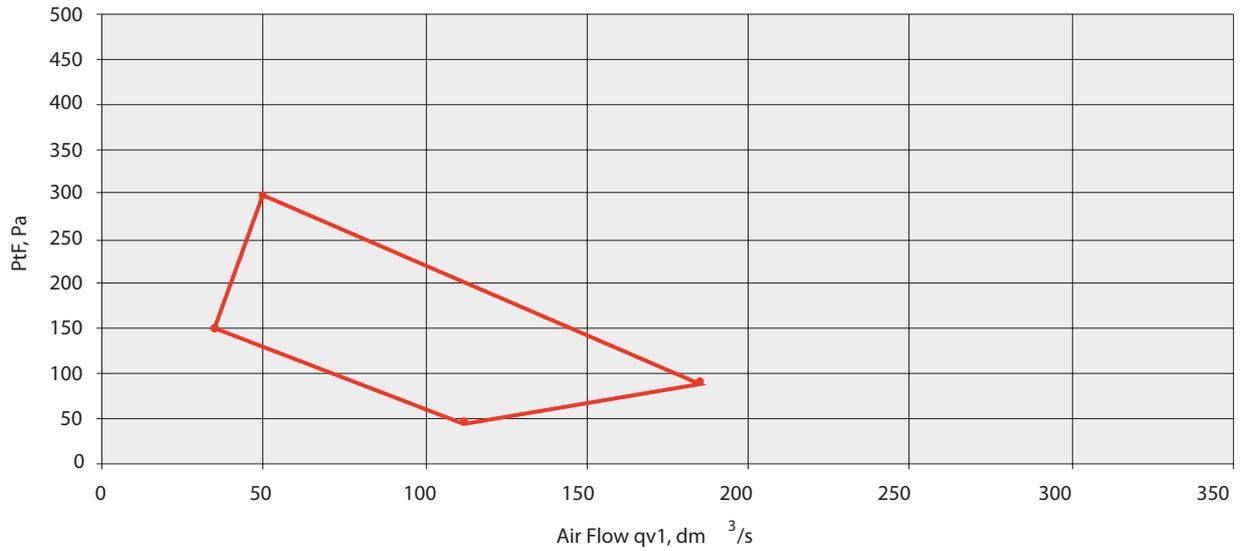
Fans with inner pipe Ø 125 mm

Area of use



Fans with inner pipe Ø 160 mm

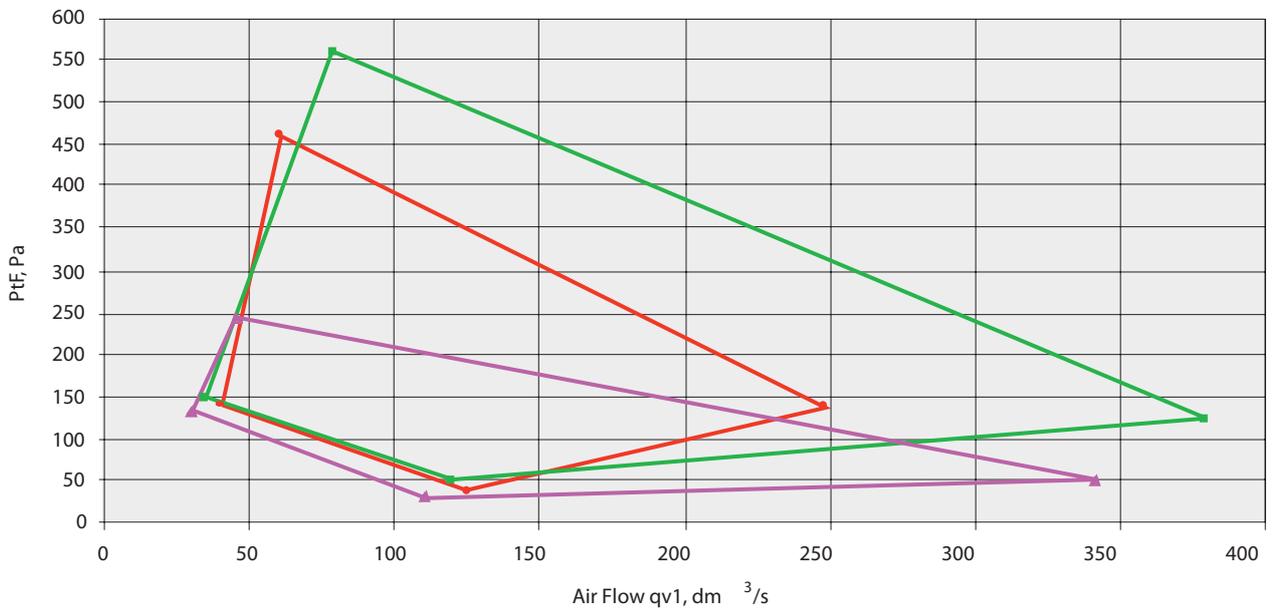
Area of use



Vilpe Vent E220 Ø160 (2600 r/min)

Fans with inner pipe Ø 200 mm

Area of use

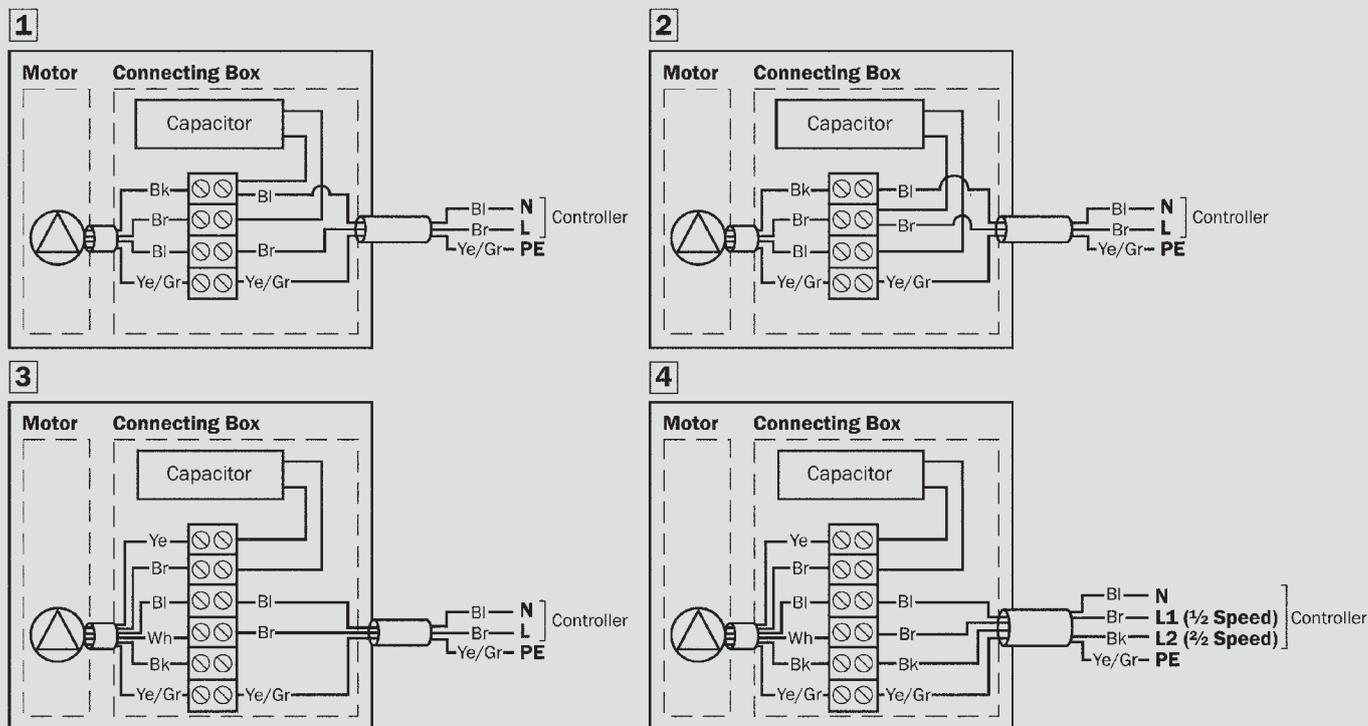


Vilpe Vent E250 Ø200 (2600 r/min)

Vilpe Vent E280 Ø200 (2700 r/min)

Vilpe Vent E310 Ø200 (1430 r/min)

Electrotechnical information



1 E120, E190, E220, E250, E250-R4E, E280, E280-R4E, E310-R4E

2 E80 (.....Serial Nr: E08099999), E150 (.....Serial Nr: E15099999)

3 E80 Radon/Toilet, E80(Serial Nr: EA80100000.....), E150(Serial Nr:EA150100000.....)

4 2-Speed Top Fan

| VILPE model | Power input | Current | Voltage | Capacitor | Rotating speed | Motor type |
|-------------|-------------|---------|-------------|-----------|-----------------|---------------|
| E80 | | | | | | |
| E080099999 | 45 W | 0,23 A | 230 V/50 Hz | 6 µF | 1700 r/min | R2E 190-AO 26 |
| EA80100000 | 57 W | 0,25 A | 230 V/50 Hz | 2 µF | 1850 r/min | R2E 190-AO 04 |
| E150 | | | | | | |
| E150099999 | 45 W | 0,23 A | 230 V/50 Hz | 6 µF | 1700 r/min | R2E 190-AO 26 |
| E150100000 | 57 W | 0,25 A | 230 V/50 Hz | 2 µF | 1850 r/min | R2E 190-AO 04 |
| E120 | 58 W | 0,26 A | 230 V/50 Hz | 2 µF | 2500 r/min | R2E 190-AO 26 |
| E150 | 45 W | 0,23 A | 230 V/50 Hz | 6 µF | 1700 r/min | R2E 190-AO 26 |
| E190 | 58 W | 0,26 A | 230 V/50 Hz | 2 µF | 2500 r/min | R2E 190-AO 26 |
| E220 | 85 W | 0,38 A | 230 V/50 Hz | 3 µF | 2600 r/min | R2E 220-AA 40 |
| E250 | 155 W | 0,7 A | 230 V/50 Hz | 5 µF | 2600 r/min | R2E 250-AS |
| E250-R4E | 43 W | 0,2 A | 230 V/50 Hz | 1,5 µF | 1420 r/min | R4E 250-AH |
| E280 | 225 W | 1,23 A | 230 V/50 Hz | 7 µF | 2700 r/min | R2E 280-AE |
| E280-R4E | 78 W | 0,35 A | 230 V/50 Hz | 2,5 µF | 1420 r/min | R4E 280-AD |
| E310-R4E | 105 W | 0,47 A | 230 V/50 Hz | 4 µF | 1430 r/min | R4E 310-AF |
| E80 R/T | 57 W | 0,25 A | 230 V/50 Hz | 2 µF | 1850 r/min | R2E 190-AO 04 |
| 2-SPEED | 57 W | 0,25 A | 230 V/50 Hz | 2 µF | 1850/2450 r/min | R2E 190-AO 04 |

Safety

instructions

Receiving inspection

Check if there are damages due to the transportation. If so, please contact the carrier without delay. Make sure that the delivery is complete and identical with the order.

The speed controller has to be bought separately and it should be recommended by the fan producer.

Speed controller

The fan can be speed-controlled by voltage variation. Normally, the speed is controlled by a step transformer or a stepless thyristor regulator. Please note, that an unfit thyristor may cause jamming and noise especially in low-speed use.

Safety direction

The fan has to be installed on the roof so that maintenance and service can be safely done. The fan must be installed in such a way that no moving parts can be touched.

The fan may only be installed by a qualified electrician.

The fan is not designed for transporting hot, explosive or erosive gases, grinding dust or similar.

The main power must always be switched off before the fanhood is opened for service or repair.

The special-plug has to be plugged out and the shelter put on the plug.

Be sure, that the impeller is fully stopped before opening the fan hood.

The motor unit has to be handled carefully.

After disconnecting the special-plug and opening the slide locks, the motor unit is totally free.

Use always original spare parts.

Electrical installation

A coupling box has to be used between the rubber cable and the fixed coupling. There must be a contact breaker in the coupling box. The rubber cable must be pull-out safely fixed in the box, meaning that there is a fitting cable clamp in the coupling box.

The fan has a built-in thermocontact and the switch on function is operating automatically.

Before use

The electrical installation must be totally finished.

The earth connection has to be in use.

There must not be any foreign objects in the fan hood or impeller.

Check that the electrical conduit is properly installed.

When taking in use - check

The measured electrical results must not be higher than those shown on the fan.

Rated current must not be higher than 5% with rated voltage. Eurovoltage in accordance with DIN IEC38 max. current +6%, - 10%.

No foreign noises are heard from the fan.

Service - Reparation - Guarantee

The main power must always be switched off before the fanhood is opened.

We recommend inspection of the impeller and removal of possible foreign objects at least once a year. The omitting can result in damage in the bearings. The bearings are capsuled, lubricated and completely maintenance-free. Always use original spare parts. The rubber cable must be pull-out safely fixed after mounting the spare part. If the impeller is broken, a whole new fan-engine has to be installed.

The cover on top of the hood has to be opened if the fan, cable or capacitor has to be disconnected. When closing the cover be sure that the rubber gasket under the cover is properly in place.

The guarantee is valid one (1) year accordingly to the clauses of the producer or importer of the fan.

In case of problems

The main power must always be switched off, before the fanhood is opened.

The fan is not running - check

- That the electrical installation is correct.
- That the impeller runs easily.
- That there is no ice or foreign objects in the fan.

The fan is designed for continuous use!

The capacitor may be damaged (inspection is to be done only by a qualified electrician)

The fan is noisy

The impeller must be intact and clean. Unbalance may cause vibrations.

There may be foreign materials in the impeller e.g. pieces of insulation.

Water in the ventilation system

Pipe must be completely insulated in cold areas with minimum of 5+5cm insulation boards. No moisture barrier may be installed on the insulation.

The fan is designed for continuous use. Condensation in the pipes may occur if the fan has been switched off.

