

## FANS FOR ROUND DUCTS

### Series VENTS TT PRO



Inline mixed-flow fans with  
the air capacity up to  
**2050 m³/h**

### Series VENTS TT



Inline mixed-flow fans with  
the air capacity up to  
**1850 m³/h**

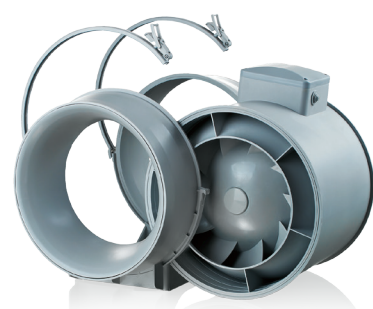
#### ■ Application

The **VENTS TT** and **VENTS TT PRO** fans are featured with wide capabilities and high performance of axial and centrifugal fans and are specifically designed for supply and exhaust ventilation of premises requiring high pressure, powerful air flow and low noise level. The fans are compatible with round air ducts from Ø 100 to 315 mm. Exhaust ventilation systems based on the VENTS TT fans are the best solution for ventilation of bathrooms and kitchens and other humid premises as well for ventilation of flats, cottages, shops, cafes, etc.

#### ■ Design

The fan casing is made of high quality and durable materials: ABS plastic for the VENTS TT series or low-flammable polypropylene for the VENTS TT PRO series.

The removable impeller and motor block with a terminal box is fixed to the casing assembled with



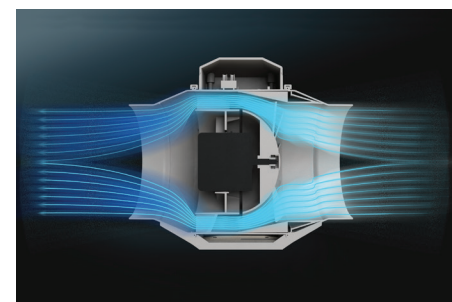
the spigots by means of special clamps with latches. This makes the fan maintenance fast and easy. The fan maintenance does not require total disassembling. Just

pull out the central block from the casing and perform required servicing. All the models may be equipped with a regulated timer with turn-off delay adjustable from 2 to 30 min.

#### ■ TT PRO design features:

The inlet spigot is equipped with a collector to enable smooth air inlet to the fan. The hemispheric impeller shape and specially profiled blades increase the air flow circular velocity and provide higher pressure and capacity as compared to standard axial fans. The diffuser, the specially profiled impeller and the directing vanes at outlet from the fan casing distribute air flow in such a way as to attain the best combination of high performance, enhanced pressure and low noise.

#### ■ Motor



The models of VENTS TT series are equipped with a single phase motor and are available in single or two speed modifications. Some dimension types are available with a more powerful motor (VENTS TT...S). The models of VENTS TT PRO series are equipped with single phased double-speed motors with low energy demand.

The motors have thermal overheating protection to prevent the motor overload. The ball bearings extend the motor service life up to 40 000 hrs. at non-stop operation. The motor has IP X4 ingress protection rating.

#### Designation key:

| Series                                 | Air duct diameter                 | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VENTS TT PRO</b><br><b>VENTS TT</b> | 100;125;150;160;<br>200; 250; 315 | <b>S</b> – high-powered motor.<br><b>T</b> – adjustable timer from 2 to 30 minutes.<br><b>U</b> – speed controller with electronic thermostat and temperature sensor integrated into the air duct. Equipped with power cord and IEC C14 electric plug. Temperature-based operation logic.<br><b>Un</b> – speed controller with electronic thermostat and external temperature sensor fixed on 4 m cable. Equipped with power cord and IEC C14 electric plug. Temperature-based operation logic.<br><b>U1</b> – speed controller with electronic thermostat and temperature sensor integrated into the air duct. Equipped with power cord and IEC C14 electric plug. Timer-based operation logic.<br><b>U1n</b> – speed controller with electronic thermostat and external temperature sensor fixed on 4 m cable. Equipped with power cord and IEC C14 electric plug. Timer-based operation logic.<br><b>R</b> – power cord with IEC C14 electric plug.<br><b>V</b> – threeposition speed switch (for TT PRO series fans only).<br><b>P</b> – built-in smooth speed controller and power cord with IEC C14 electric plug. |

| ErP data             |              |
|----------------------|--------------|
| Overall efficiency   | $\eta$ , [%] |
| Measurement category | MC           |
| Efficiency category  | EC           |
| Efficiency grade     | N            |
| Variable speed drive | VSD          |
| Power                | [kW]         |
| Current              | [A]          |
| Air flow             | [m³/h]       |
| Static pressure      | [Pa]         |
| Speed                | [n/min¹]     |
| Specific ratio       | SR           |

#### Accessories



page 368   page 376   page 378   page 382   page 394   page 430   page 434   page 443   page 461   page 465   page 466

#### ■ Speed control



The double-speed motors are controlled with a built-in switch (V option) or an external switch for multi-speed fans (available upon separate order). An integrated speed controller (option P), an external TRIAC or autotransformer speed controller (available upon separate order) are used for smooth speed control when connected to the maximum speed terminal.



#### ■ Mounting

The fans are suitable for mounting at any angle and point of the system. Several fans may be installed inside one system. Several fans may be installed inside one system:

– **parallel** mounting to increase air flow;



– **in series mounting** to increase operating pressure;

The fan case is equipped with a flat mounting plate to attach the fan to the wall. The mounting box may



be installed in any position to facilitate mounting and wiring.

#### ■ The fan with electronic module of the temperature sensor and speed controller (U option).

The ideal solution for ventilation of the premises with high demands to permanent indoor temperature level, e.g. greenhouses.



The fan with the electronic module of the temperature sensor and the speed controller is used for automatic speed control (air capacity regulation) depending on the air temperature in the ventilation duct or inside a room.



The electronic module of the front panel incorporates:

- the speed control knob for the setting the impeller speed;
- the thermostat control knob for setting the temperature set point.
- thermostat LED light.

Two modifications are possible:

- temperature sensor integrated inside a fan duct (U/U1 option);
- external temperature sensor fixed on 4 m power cable (Un / U1n option).

#### ■ Operating logic of the fan with the electronic module of the temperature sensor and speed controller

Set the desired air temperature (set point of the thermostat) with the thermostat control knob. Set the required minimum impeller speed (air flow) with the speed control knob. The motor switches to maximum speed (maximum air flow) as the temperature reaches and exceeds the set temperature set point. The motor switches to the pre-set speed as the temperature drops down below the set temperature point.

To avoid the frequent motor switching, e.g. when the temperature in the supply air duct is equal to the threshold value, the switching delay time is activated.

There are two switch delay patterns for various cases:

1. The temperature sensor-based switch delay (U option): the motor switches to higher speed as the air temperature exceeds 2 °C above the set thermostat set point. The motor reverts to the pre-set lower speed as the air temperature drops below the thermostat set point.

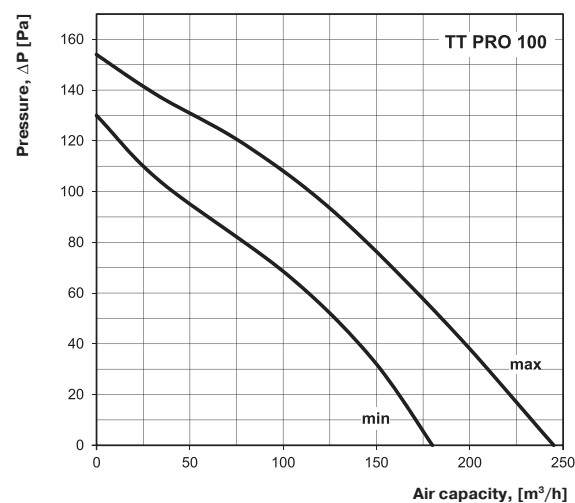
This pattern is used to keep air temperature to within 2 °C. In this case the fan switches are rare.

2. The timer-based switch delay (U1 option): as the air temperature exceeds the set thermostat set point, the motor switches to higher speed and the switch delay timer is activated for 5 min. The motor reverts to lower speed as the air temperature drops down below the thermostat set point and only after the timer countdown.

This pattern is used for exact air temperature control. The fan changes its speed more often as compared to the temperature sensor-based switch delay, however the minimum timer interval is 5 minutes.

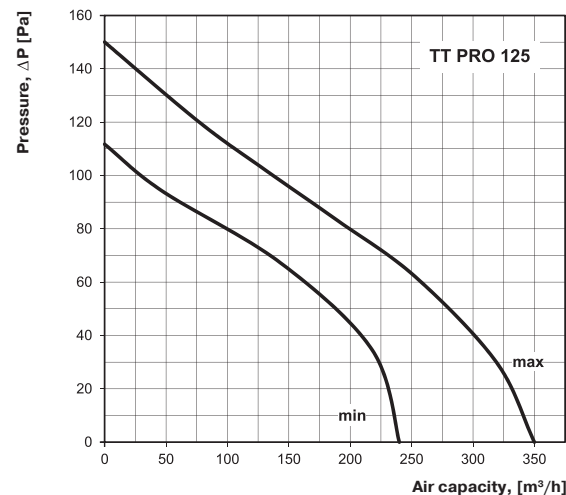
## FANS FOR ROUND DUCTS

## VENTS TT PRO



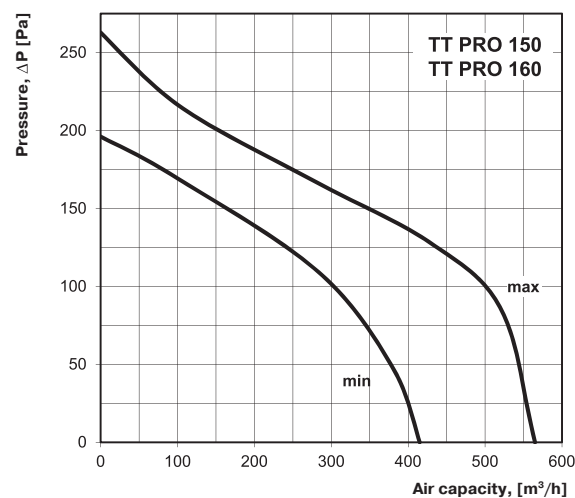
| Sound power level, A-filter applied |       |         |                           |     |     |     |      |      |      |      | Sound pressure level at 3 meters, A-filter applied<br>LpA, 3m<br>[dB(A)] | Sound pressure level at 1 meters, A-filter applied<br>LpA, 1m<br>[dB(A)] |
|-------------------------------------|-------|---------|---------------------------|-----|-----|-----|------|------|------|------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Sound-power level, A - weighted     | Hz    | general | Octave frequency band, Hz |     |     |     |      |      |      |      |                                                                          |                                                                          |
|                                     |       |         | 63                        | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                          |                                                                          |
| <b>Min speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 54      | 19                        | 35  | 50  | 49  | 44   | 37   | 25   | 17   | 33                                                                       | 43                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 53      | 17                        | 34  | 50  | 49  | 43   | 36   | 24   | 17   | 32                                                                       | 42                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 47      | 14                        | 29  | 43  | 43  | 39   | 33   | 22   | 15   | 27                                                                       | 37                                                                       |
| <b>Max speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 59      | 24                        | 34  | 53  | 54  | 53   | 48   | 37   | 26   | 38                                                                       | 48                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 57      | 23                        | 33  | 52  | 52  | 47   | 37   | 26   | 17   | 37                                                                       | 47                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 52      | 18                        | 29  | 46  | 48  | 47   | 43   | 33   | 23   | 32                                                                       | 42                                                                       |

## VENTS TT PRO



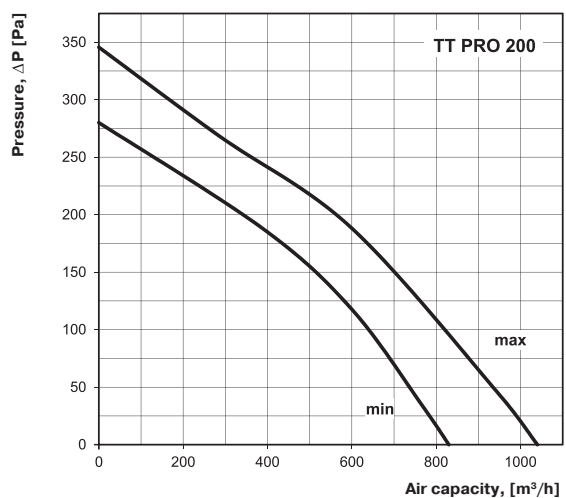
| Sound power level, A-filter applied |       |         |                           |     |     |     |      |      |      |      | Sound pressure level at 3 meters, A-filter applied<br>LpA, 3m<br>[dB(A)] | Sound pressure level at 1 meters, A-filter applied<br>LpA, 1m<br>[dB(A)] |
|-------------------------------------|-------|---------|---------------------------|-----|-----|-----|------|------|------|------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Sound-power level, A - weighted     | Hz    | general | Octave frequency band, Hz |     |     |     |      |      |      |      |                                                                          |                                                                          |
|                                     |       |         | 63                        | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                          |                                                                          |
|                                     |       |         |                           |     |     |     |      |      |      |      |                                                                          |                                                                          |
| <b>Min speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 54      | 26                        | 38  | 52  | 50  | 44   | 38   | 27   | 17   | 34                                                                       | 44                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 54      | 25                        | 37  | 51  | 49  | 43   | 38   | 28   | 18   | 33                                                                       | 43                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 49      | 21                        | 32  | 46  | 45  | 40   | 35   | 25   | 16   | 29                                                                       | 39                                                                       |
| <b>Max speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 60      | 20                        | 31  | 57  | 51  | 51   | 50   | 39   | 27   | 39                                                                       | 49                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 59      | 20                        | 31  | 56  | 51  | 51   | 49   | 39   | 26   | 38                                                                       | 48                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 54      | 16                        | 27  | 51  | 46  | 47   | 45   | 36   | 24   | 34                                                                       | 44                                                                       |

## VENTS TT PRO



| Sound power level, A-filter applied |       |         |                           |     |     |     |      |      |      |      | Sound pressure level at 3 meters, A-filter applied<br>LpA, 3m (dB(A)) | Sound pressure level at 1 meters, A-filter applied<br>LpA, 1m (dB(A)) |
|-------------------------------------|-------|---------|---------------------------|-----|-----|-----|------|------|------|------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| Sound-power level, A - weighted     | Hz    | general | Octave frequency band, Hz |     |     |     |      |      |      |      |                                                                       |                                                                       |
|                                     |       |         | 63                        | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                       |                                                                       |
| <b>Min speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                       |                                                                       |
| L <sub>WA</sub> to inlet            | dB(A) | 64      | 26                        | 38  | 63  | 55  | 56   | 51   | 41   | 27   | 44                                                                    | 54                                                                    |
| L <sub>WA</sub> to outlet           | dB(A) | 64      | 25                        | 37  | 62  | 54  | 55   | 50   | 40   | 27   | 43                                                                    | 53                                                                    |
| L <sub>WA</sub> to environment      | dB(A) | 54      | 18                        | 30  | 52  | 46  | 47   | 43   | 35   | 23   | 34                                                                    | 44                                                                    |
| <b>Max speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                       |                                                                       |
| L <sub>WA</sub> to inlet            | dB(A) | 75      | 33                        | 44  | 71  | 67  | 65   | 70   | 56   | 42   | 54                                                                    | 64                                                                    |
| L <sub>WA</sub> to outlet           | dB(A) | 74      | 32                        | 43  | 70  | 65  | 64   | 70   | 54   | 42   | 54                                                                    | 64                                                                    |
| L <sub>WA</sub> to environment      | dB(A) | 64      | 24                        | 35  | 59  | 56  | 55   | 60   | 47   | 35   | 43                                                                    | 53                                                                    |

## VENTS TT PRO



| Sound power level, A-filter applied |       |         |                           |    |     |     |     |      |      |      | Sound pressure level at 3 meters, A-filter applied<br>LpA, 3m (dB(A)) | Sound pressure level at 1 meters, A-filter applied<br>LpA, 1m (dB(A)) |
|-------------------------------------|-------|---------|---------------------------|----|-----|-----|-----|------|------|------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| Sound-power level, A - weighted     |       | general | Octave frequency band, Hz |    |     |     |     |      |      |      |                                                                       |                                                                       |
|                                     |       |         | Hz                        | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 |                                                                       |                                                                       |
| <b>Min speed</b>                    |       |         |                           |    |     |     |     |      |      |      |                                                                       |                                                                       |
| L <sub>WA</sub> to inlet            | dB(A) | 73      | 36                        | 49 | 64  | 65  | 69  | 67   | 56   | 42   | 52                                                                    | 62                                                                    |
| L <sub>WA</sub> to outlet           | dB(A) | 71      | 35                        | 47 | 63  | 64  | 67  | 66   | 56   | 42   | 51                                                                    | 61                                                                    |
| L <sub>WA</sub> to environment      | dB(A) | 60      | 24                        | 36 | 50  | 52  | 55  | 54   | 46   | 34   | 39                                                                    | 49                                                                    |
| <b>Max speed</b>                    |       |         |                           |    |     |     |     |      |      |      |                                                                       |                                                                       |
| L <sub>WA</sub> to inlet            | dB(A) | 78      | 38                        | 50 | 69  | 70  | 74  | 73   | 65   | 51   | 57                                                                    | 67                                                                    |
| L <sub>WA</sub> to outlet           | dB(A) | 77      | 36                        | 49 | 68  | 69  | 72  | 72   | 63   | 49   | 56                                                                    | 66                                                                    |
| L <sub>WA</sub> to environment      | dB(A) | 65      | 26                        | 38 | 55  | 57  | 60  | 60   | 53   | 41   | 44                                                                    | 54                                                                    |

## Technical data:

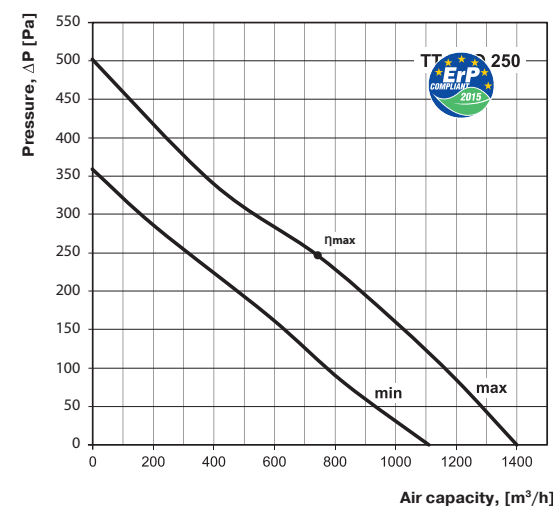
|                                       | TT PRO 100* |     | TT PRO 125* |     | TT PRO 150* / TT PRO 160* |     |
|---------------------------------------|-------------|-----|-------------|-----|---------------------------|-----|
|                                       | min         | max | min         | max | min                       | max |
| Speed                                 | 1~ 230      |     | 1~ 230      |     | 1~ 230                    |     |
| Voltage [V / 50 / 60 Hz]              | 23          |     | 25          |     | 42                        |     |
| Power [W]                             | 0.10        |     | 0.11        |     | 0.19                      |     |
| Current [A]                           | 180         |     | 245         |     | 415                       |     |
| Max. air capacity [m³/h]              | 2050        |     | 2620        |     | 1940                      |     |
| RPM [min <sup>-1</sup> ]              | 27          |     | 32          |     | 37                        |     |
| Noise level at 3 m [dBA]              | 60          |     | 60          |     | 60                        |     |
| Max. transported air temperature [°C] | IP X4       |     | IP X4       |     | IP X4                     |     |
| Protection rating                     |             |     |             |     |                           |     |

|                                       | TT PRO 200* |     | TT PRO 250  |     | TT PRO 315  |     |
|---------------------------------------|-------------|-----|------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------|-----|
|                                       | min         | max | min                                                                                            | max | min                                                                                            | max |
| Speed                                 | 1~ 230      |     | 1~ 230                                                                                         |     | 1~ 230                                                                                         |     |
| Voltage [V / 50 / 60 Hz]              | 76          |     | 125                                                                                            |     | 230                                                                                            |     |
| Power [W]                             | 0.34        |     | 0.48                                                                                           |     | 1.0                                                                                            |     |
| Current [A]                           | 830         |     | 1040                                                                                           |     | 1570                                                                                           |     |
| Max. air capacity [m³/h]              | 1915        |     | 2380                                                                                           |     | 1890                                                                                           |     |
| RPM [min <sup>-1</sup> ]              | 45          |     | 52                                                                                             |     | 49                                                                                             |     |
| Noise level at 3 m [dBA]              | 60          |     | 60                                                                                             |     | 60                                                                                             |     |
| Max. transported air temperature [°C] | IP X4       |     | IP X4                                                                                          |     | IP X4                                                                                          |     |
| Protection rating                     |             |     |                                                                                                |     |                                                                                                |     |

\* Compliant to the ErP-regulation (EC) 327/2011, the power consumption at optimum efficiency is &lt; 125W.

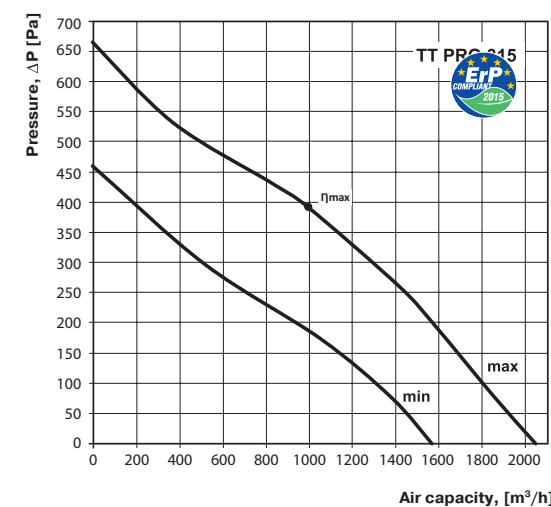
## VENTS TT PRO



| Sound power level, A-filter applied |       |         |                           |     |     |     |      |      |      |      | Sound pressure level at 3 meters, A-filter applied<br>LpA, 3m<br>[dB(A)] | Sound pressure level at 1 meters, A-filter applied<br>LpA, 1m<br>[dB(A)] |
|-------------------------------------|-------|---------|---------------------------|-----|-----|-----|------|------|------|------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Sound-power level, A - weighted     | Hz    | general | Octave frequency band, Hz |     |     |     |      |      |      |      |                                                                          |                                                                          |
|                                     |       |         | 63                        | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                          |                                                                          |
| <b>Min speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 78      | 46                        | 53  | 71  | 73  | 74   | 68   | 57   | 45   | 58                                                                       | 68                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 78      | 45                        | 52  | 71  | 73  | 73   | 68   | 56   | 44   | 57                                                                       | 67                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 68      | 36                        | 43  | 60  | 62  | 64   | 59   | 49   | 38   | 47                                                                       | 57                                                                       |
| <b>Max speed</b>                    |       |         |                           |     |     |     |      |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 88      | 51                        | 58  | 73  | 85  | 82   | 78   | 67   | 55   | 67                                                                       | 77                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 87      | 50                        | 57  | 72  | 84  | 81   | 77   | 66   | 54   | 66                                                                       | 76                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 76      | 41                        | 48  | 62  | 73  | 70   | 67   | 58   | 47   | 55                                                                       | 65                                                                       |

| η <sub>i</sub> [%] | MC | EC     | N    | VSD | [kW]  | [A]  | [m³/h] | [Pa] | [RPM] | SR |
|--------------------|----|--------|------|-----|-------|------|--------|------|-------|----|
| 30.6               | A  | Static | 49.2 | No  | 0.171 | 0.79 | 742    | 247  | 2465  | 1  |

## VENTS TT PRO



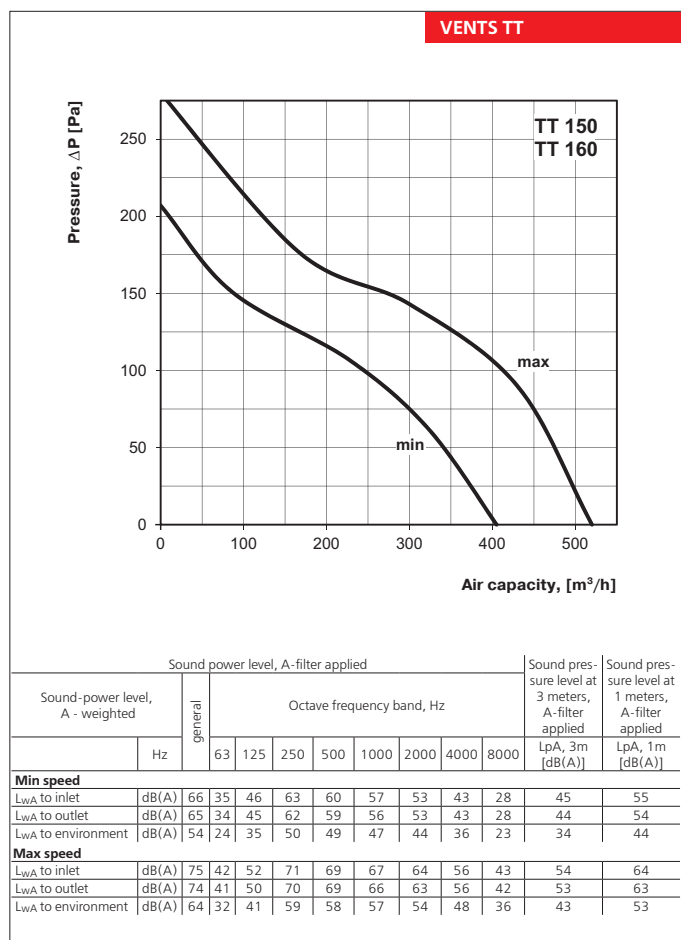
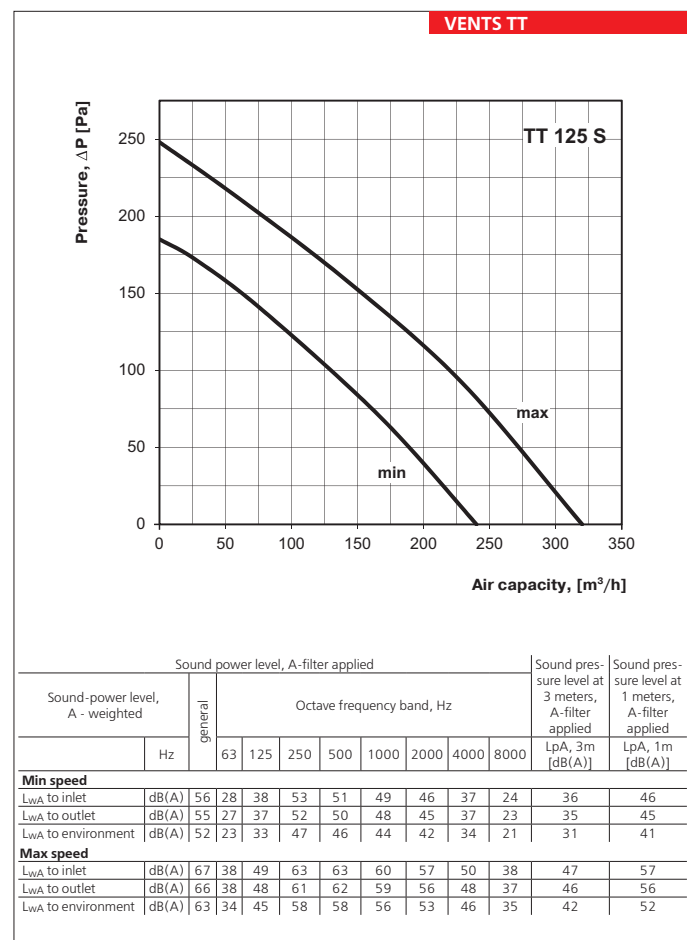
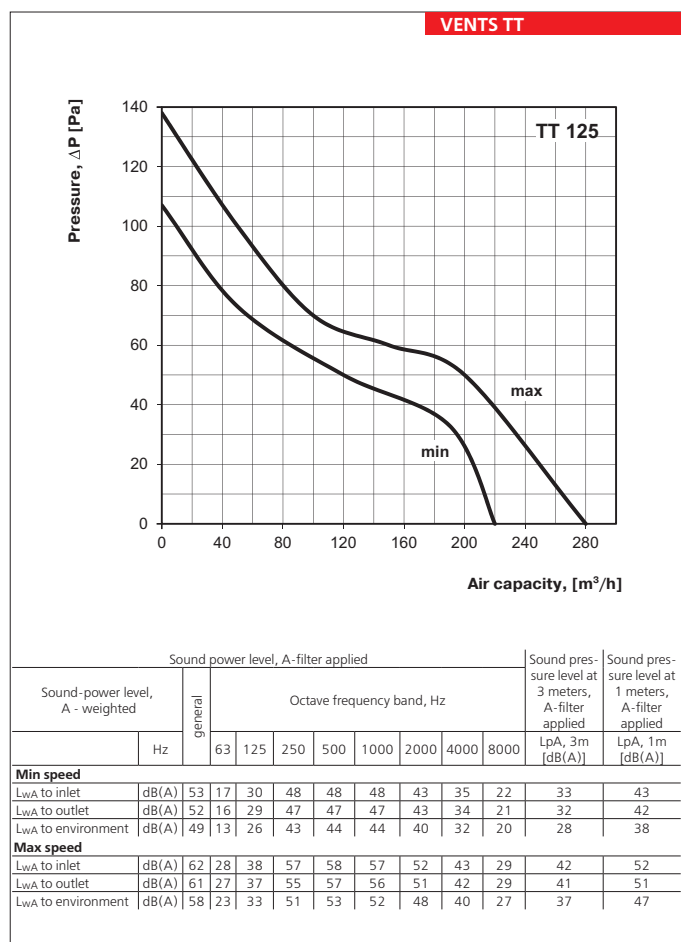
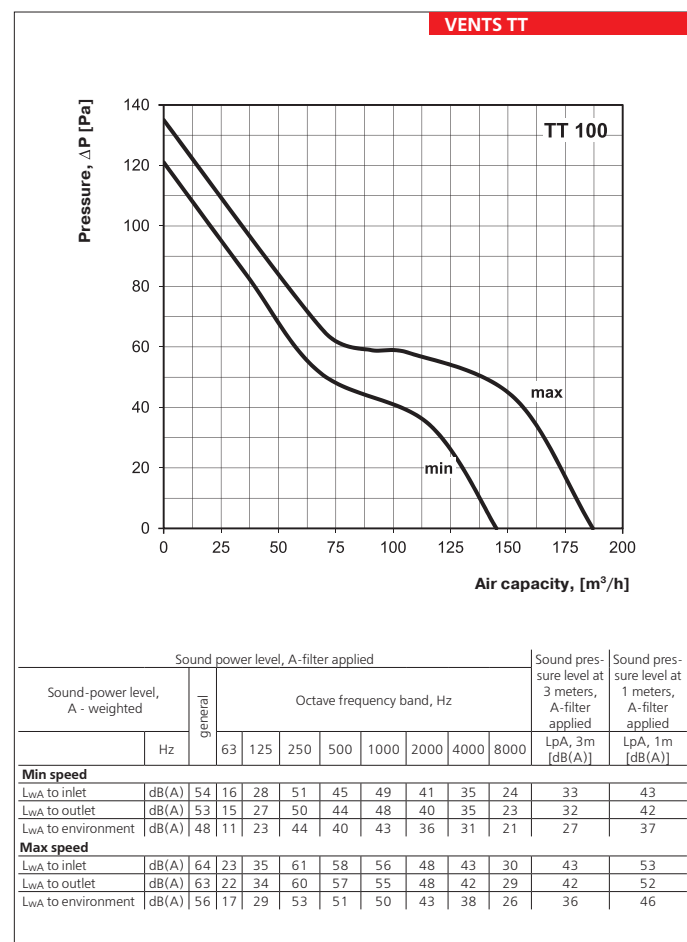
| Sound power level, A-filter applied |       |         |                           |    |     |     |     |      |      |      | Sound pressure level at 3 meters, A-filter applied<br>LpA, 3m<br>[dB(A)] | Sound pressure level at 1 meters, A-filter applied<br>LpA, 1m<br>[dB(A)] |
|-------------------------------------|-------|---------|---------------------------|----|-----|-----|-----|------|------|------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Sound-power level, A - weighted     |       | general | Octave frequency band, Hz |    |     |     |     |      |      |      |                                                                          |                                                                          |
|                                     |       |         | Hz                        | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 |                                                                          |                                                                          |
| Min speed                           |       |         |                           |    |     |     |     |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 80      | 35                        | 50 | 69  | 76  | 77  | 72   | 61   | 47   | 60                                                                       | 70                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 79      | 34                        | 49 | 68  | 75  | 75  | 71   | 60   | 46   | 59                                                                       | 69                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 69      | 27                        | 40 | 58  | 64  | 66  | 62   | 53   | 40   | 49                                                                       | 59                                                                       |
| Max speed                           |       |         |                           |    |     |     |     |      |      |      |                                                                          |                                                                          |
| L <sub>WA</sub> to inlet            | dB(A) | 86      | 39                        | 55 | 72  | 80  | 82  | 78   | 69   | 54   | 65                                                                       | 75                                                                       |
| L <sub>WA</sub> to outlet           | dB(A) | 85      | 38                        | 55 | 71  | 79  | 81  | 78   | 68   | 53   | 64                                                                       | 74                                                                       |
| L <sub>WA</sub> to environment      | dB(A) | 74      | 29                        | 45 | 61  | 68  | 70  | 67   | 59   | 46   | 53                                                                       | 63                                                                       |

| η <sub>i</sub> [%] | MC | EC     | N  | VSD | [kW]  | [A]  | [m³/h] | [Pa] | [RPM] | SR |
|--------------------|----|--------|----|-----|-------|------|--------|------|-------|----|
| 34.4               | A  | Static | 50 | No  | 0.322 | 1.45 | 996    | 392  | 2380  | 1  |

## Fan overall dimensions:

| Type       | Dimensions [mm] |       |     |       | Weight [kg] |
|------------|-----------------|-------|-----|-------|-------------|
|            | ØD              | B     | H   | L     |             |
| TT PRO 100 | 97              | 195.8 | 226 | 302.5 | 1.75        |
| TT PRO 125 | 123             | 195.6 | 226 | 258.5 | 2.15        |
| TT PRO 150 | 148             | 220.1 | 247 | 289   | 2.3         |
| TT PRO 160 | 158             | 220.1 | 247 | 289   | 3.25        |
| TT PRO 200 | 199             | 239   | 261 | 295.5 | 3.95        |
| TT PRO 250 | 247             | 287   | 323 | 383   | 7.8         |
| TT PRO 315 | 310             | 362   | 408 | 445   | 11.95       |

## FANS FOR ROUND DUCTS



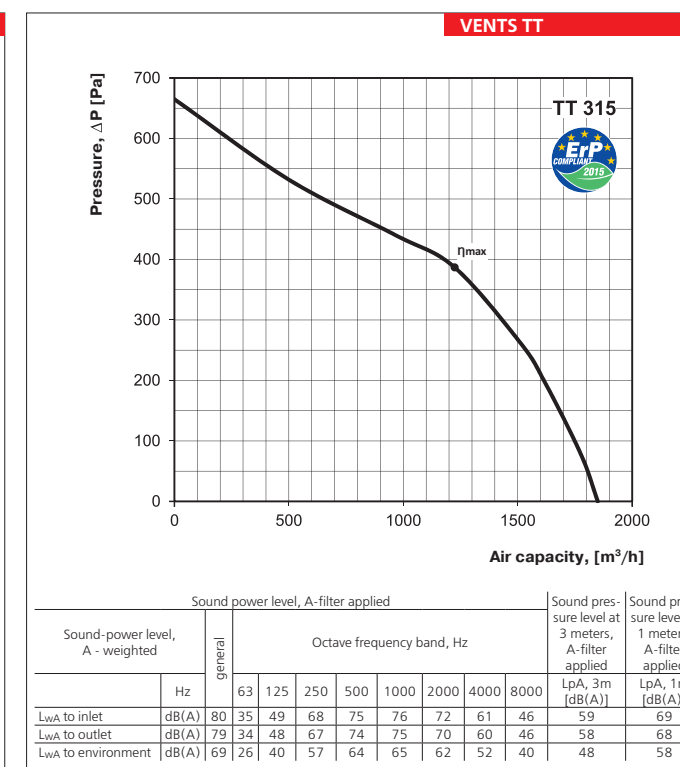
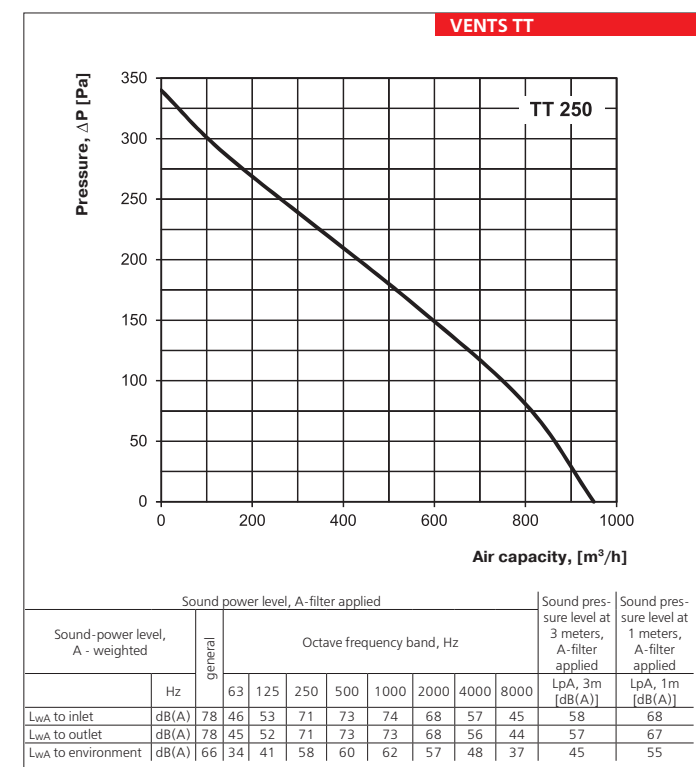
### Technical data:

|                                       | TT 100* |      | TT 125 * |      | TT 125 S* |      |
|---------------------------------------|---------|------|----------|------|-----------|------|
| Speed                                 | min     | max  | min      | max  | min       | max  |
| Voltage [V / 50 / 60 Hz]              | 1~ 230  |      | 1~ 230   |      | 1~ 230    |      |
| Power [W]                             | 21      | 33   | 23       | 37   | 28        | 54   |
| Current [A]                           | 0.11    | 0.21 | 0.18     | 0.27 | 0.12      | 0.16 |
| Max. air capacity [m³/h]              | 145     | 187  | 220      | 280  | 240       | 320  |
| RPM [min <sup>-1</sup> ]              | 2180    | 2385 | 1950     | 2455 | 1850      | 2510 |
| Noise level at 3 m [dBA]              | 27      | 36   | 28       | 37   | 31        | 42   |
| Max. transported air temperature [°C] | 60      |      | 60       |      | 60        |      |
| Protection rating                     | IP X4   |      | IP X4    |      | IP X4     |      |

|                                       | TT 150 / TT 160* |      | TT 250* | TT 315  |
|---------------------------------------|------------------|------|---------|--------------------------------------------------------------------------------------------|
| Speed                                 | min              | max  | —       | —                                                                                          |
| Voltage [V / 50 / 60 Hz]              | 1~ 230           |      | 1~ 230  | 1~ 230                                                                                     |
| Power [W]                             | 30               | 60   | 120     | 314                                                                                        |
| Current [A]                           | 0.17             | 0.27 | 0.52    | 1.42                                                                                       |
| Max. air capacity [m³/h]              | 405              | 520  | 950     | 1850                                                                                       |
| RPM [min <sup>-1</sup> ]              | 1680             | 2460 | 1840    | 2335                                                                                       |
| Noise level at 3 m [dBA]              | 33               | 44   | 45      | 48                                                                                         |
| Max. transported air temperature [°C] | 60               |      | 60      | 60                                                                                         |
| Protection rating                     | IP X4            |      | IP X4   | IP X4                                                                                      |

\* Compliant to the ErP-regulation (EC) 327/2011, the power consumption at optimum efficiency is < 125W.



| η, [%] | MC | EC     | N    | VSD | [kW]  | [A]  | [m³/h] | [Pa] | [RPM] | SR |
|--------|----|--------|------|-----|-------|------|--------|------|-------|----|
| 41.7   | A  | Static | 57.4 | No  | 0.310 | 1.43 | 1224   | 387  | 2350  | 1  |

### Fan overall dimensions:

| Type     | Dimensions [mm] |     |     |     | Weight [kg] |
|----------|-----------------|-----|-----|-----|-------------|
|          | ØD              | B   | H   | L   |             |
| TT 100   | 96              | 167 | 190 | 246 | 1.45        |
| TT 125   | 123             | 167 | 190 | 246 | 1.35        |
| TT 125 S | 123             | 223 | 250 | 295 | 3.14        |
| TT 150   | 146             | 223 | 250 | 295 | 2.65        |
| TT 160   | 158             | 233 | 250 | 295 | 2.65        |
| TT 250   | 247             | 287 | 323 | 383 | 6.9         |
| TT 315   | 310             | 362 | 408 | 445 | 10.35       |

