

TD-SILENT - MODELS 160 TO 1000



Low profile "Mixed-flow" fans with sound-absorbent insulation. Extremely quiet. Certified of Approval Noise Abatement Society (TD-350, TD-500, TD-800 and TD-1000 models).

Manufactured in plastic material, with a specifically designed internal skin to direct the sound waves at the right angle for them to be captured by the sound-absorbent material (1). Fitted with rubber gaskets on the inlet and outlet to absorb vibrations, a body that can be dismantled. Connection box can be rotated 360°, to facilitate easy connection of the power cable.

Motors

Speed controllable 230V-50Hz motor, of two speed or 3-speed motors (depending on the models). IP44.

Motors are class B, with ball bearings and safety thermal overload protection.

(1) Except the TD-160 SILENT, that is fitted with the special floating motor system patented by S&P.

Additional information

The models offer solutions to ventilation problems, especially in places where people work and low sound level is required.



Validated mark of approval
noise abatement society
[Models 350,
500, 800 and 1000]

TD-SILENT-T models

TD-SILENT versions fitted with a run-on-timer adjustable within 1 and 30 minutes and onespeed or 3-speed motors (depending on the model) not suitable for speed control.

TD-SILENT - MODELS 1300 AND 2000



Low profile "Mixed-flow" fans with soundabsorbent insulation. Extremely quiet. Certified of Approval Noise Abatement Society (TD-2000 model). Constructed from sheet steel with epoxy polyester paint, acoustic insulation (MO) glass fibre, within outer shell.

Aerodynamic inlet to improve airflow and reduce sound. Detachable fan unit without demounting duct connections. IP44. External terminal box IP55. Removeable fan body with 3 speed motor, single phase 230V-50/60Hz speed controllable, Class F, external rotor aluminium motor with capacitor and thermal protection.

Additional information

The models offer solutions to ventilation problems, especially in places where people work and low sound level is required.



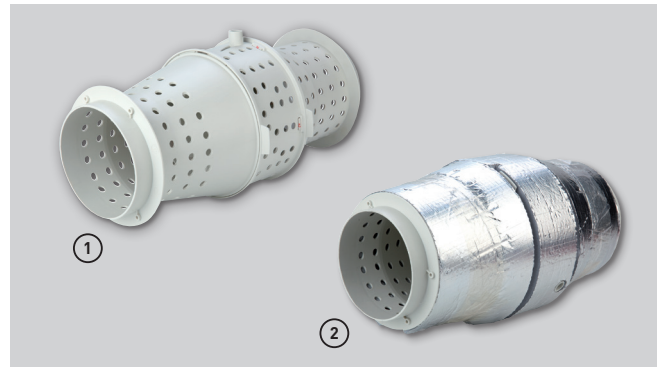
Validated mark of approval
noise abatement society
[Model 2000]

MODELS 250 TO 1000



Low profile

The low profile of the TD-SILENT fans makes them the most effective solution for installations where space is very limited, especially in ceiling voids.



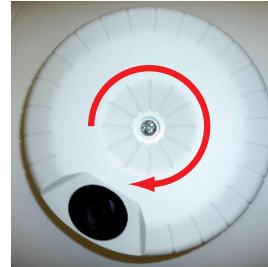
Low noise level

Sound waves produced inside the TD, are directed through the perforated inner skin (1) and absorbed by the layer of sound absorbent material (2).



Easymaintenance

Removable motor-body assembly to easy cleaning and repairing without touching the ducts. Support plastic brackets simplify the operation.



Connection box rotated 360°

Connection box can be rotated 360°, to facilitate easy connection of the power cable.



Rubber seals

Bi-material inlet and outlet incorporating a rubber seal to facilitate installation and absorb vibrations.



MODELS WITH RUN-ON-TIMER

Models TD-SILENT-T (from models 250 to 1000) are fitted with an adjustable timer between 1 and 30 minutes and are supplied with a one-speed or 3-speed motors (depending on the model) not suitable for speed control.



Support bracket

Support bracket for installing on a wall or ceiling, incorporating twin-material support brackets for the motor section that absorbs vibration.

Easy to mount



Loosen and open clamps on both sides.

Remove the fan body.

Remove the terminal box lid.

Connect electrical supply.

Remount the fan body by tightening the clamps.

MODEL 160



SILENT-ELASTIC-BLOCKS
 Model TD-160/100N SILENT offer very low noise level, with a **motor mounted on silentelastic-blocks** which absorb the vibrations.

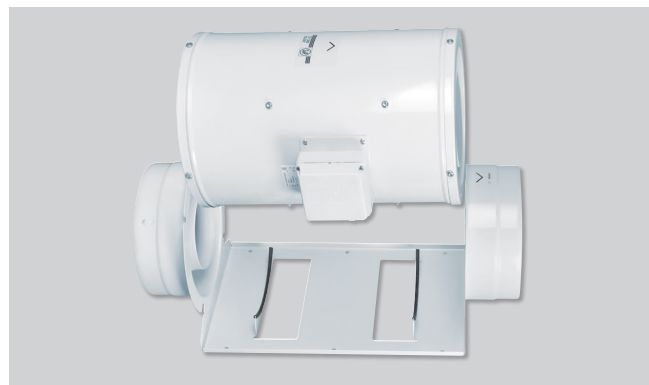


MODELS 1300 AND 2000



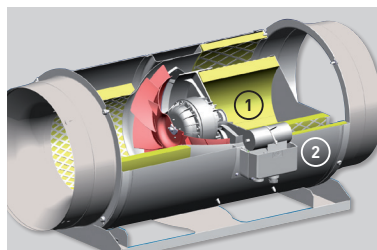
Low profile - compact

Low profile fans TD-1300/250 SILENT and TD-2000/315 SILENT are ideal for installations where space is very limited, especially in ceiling voids.



Easy maintenance

Detachable fan unit for maintenance, or cleaning, without demounting duct connections.



Low noise level

- ① Acoustic insulation (A2-s1, d0) glass fibre.
- ② Outer shell.
- ③ Aerodynamic inlet to improve air flow and reduce sound.
- ④ Attenuating perforated skin.



Support bracket

Suitable for wall or ceiling mounting. Fixing brackets to the motor-body included.



IP55 REMOTE terminal box

Easy installation and connection.

TECHNICAL CHARACTERISTICS

| TD-SILENT | Speed (r.p.m.) | Maximum absorbed power (W) | Maximum absorbed current (A) | Maximum airflow (m³/h) | Sound pressure level* (dB(A)) | Min-Max air temperature (°C) | Weight (kg) | Duct diameter (mm) | 3-speed switch | Speed controller | Wiring diagram** (n°) |
|--------------------------|----------------|----------------------------|------------------------------|------------------------|-------------------------------|------------------------------|-------------|--------------------|-------------------|--------------------|-----------------------|
| TD-160/100 N SILENT | 2400 | 29 | 0,17 | 180 | 24 | -20/+40 | 1,4 | 100 | COM-2 REGUL-2 | RMB-1,5 REB-1 | 9, 10 |
| | 2200 | 18 | 0,11 | 150 | 22 | | | | | | |
| TD-250/100 SILENT | 2210 | 27 | 0,12 | 250 | 25 | -20/+40 | 5,4 | 100 | COM-2 REGUL-2 | RMB-1,5 REB-1 | 9, 10 |
| | 1680 | 21 | 0,1 | 200 | 20 | | | | | | |
| TD-350/125 SILENT | 2100 | 27 | 0,12 | 330 | 23 | -20/+40 | 5 | 125 | COM-2 REGUL-2 | RMB-1,5 REB-1 | 9, 10 |
| | 1650 | 21 | 0,1 | 260 | 18 | | | | | | |
| TD-500/150-160 SILENT 3V | 2480 | 59 | 0,26 | 550 | 27 | -20/+60 | 6 | 150/160 | COM-3 INTER 4P | RMB-1,5 REB-1 | 9, 10 |
| | 2060 | 50 | 0,22 | 450 | 22 | | | | | | |
| | 1610 | 45 | 0,2 | 350 | 17 | | | | | | |
| TD-800/200 SILENT 3V | 2170 | 102 | 0,5 | 910 | 28 | -20/+60 | 8,7 | 200 | COM-3 INTER 4P | RMB-1,5 REB-1 | 9, 10 |
| | 1870 | 92 | 0,47 | 780 | 24 | | | | | | |
| | 1660 | 90 | 0,46 | 690 | 22 | | | | | | |
| TD-1000/200 SILENT 3V | 2450 | 130 | 0,55 | 1.040 | 29 | -20/+60 | 8,7 | 200 | COM-3 INTER 4P | RMB-1,5 REB-1 | 9, 10 |
| | 2210 | 127 | 0,55 | 910 | 27 | | | | | | |
| | 1920 | 122 | 0,53 | 790 | 24 | | | | | | |
| TD-1300/250 SILENT 3V | 2530 | 204 | 0,85 | 1.320 | 36 | -20/+60 | 20 | 250 | COM-3 INTER 4P | RMB-1,5 REB-1 | 12, 13 |
| | 2230 | 163 | 0,68 | 1.160 | 33 | | | | | | |
| | 2030 | 144 | 0,6 | 1.040 | 31 | | | | | | |
| TD-2000/315 SILENT 3V | 2670 | 293 | 1,25 | 1.770 | 39 | -40/+60 | 25 | 315 | COM-3 INTER 4P | RMB-1,5 REB-2,5 | 12, 13 |
| | 2490 | 232 | 0,97 | 1.610 | 38 | | | | | | |
| | 2240 | 190 | 0,78 | 1.480 | 36 | | | | | | |

* Sound pressure level radiated at 3 m at free air conditions with rigid ducts at the inlet and at the outlet.

** See section of Wiring Diagrams.

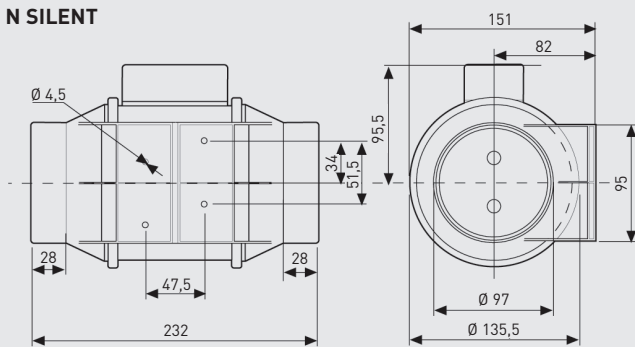
| TD-SILENT | Speed (r.p.m.) | Maximum absorbed power (W) | Maximum absorbed current (A) | Maximum airflow (m³/h) | Sound pressure level* (dB(A)) | Min-Max air temperature (°C) | Weight (kg) | Duct diameter (mm) |
|------------------------------|----------------|----------------------------|------------------------------|------------------------|-------------------------------|------------------------------|-------------|--------------------|
| TD-160/100 NT SILENT | 2400 | 29 | 0,17 | 180 | 24 | -20/+40 | 1,4 | 100 |
| TD-250/100 SILENT T | 2140 | 28 | 0,12 | 250 | 25 | -20/+40 | 5,4 | 100 |
| TD-350/125 SILENT T | 2050 | 26 | 0,11 | 330 | 23 | -20/+40 | 5 | 125 |
| TD-500/150-160 SILENT T 3V** | 2590 | 53 | 0,21 | 560 | 27 | -20/+60 | 6 | 150 |
| | 2150 | 44 | 0,19 | 470 | 22 | | | |
| | 1820 | 41 | 0,18 | 390 | 17 | | | |
| TD-800/200 SILENT T 3V** | 2170 | 102 | 0,5 | 910 | 28 | -20/+60 | 8,7 | 200 |
| | 1870 | 92 | 0,47 | 780 | 24 | | | |
| | 1660 | 90 | 0,46 | 690 | 22 | | | |
| TD-1000/200 SILENT T 3V** | 2450 | 130 | 0,55 | 1.040 | 29 | -20/+60 | 8,7 | 200 |
| | 2210 | 127 | 0,55 | 910 | 27 | | | |
| | 1920 | 122 | 0,53 | 790 | 24 | | | |

* Radiated sound pressure level measured at 3 m, in free field conditions, with rigid ducts at the inlet and outlet.

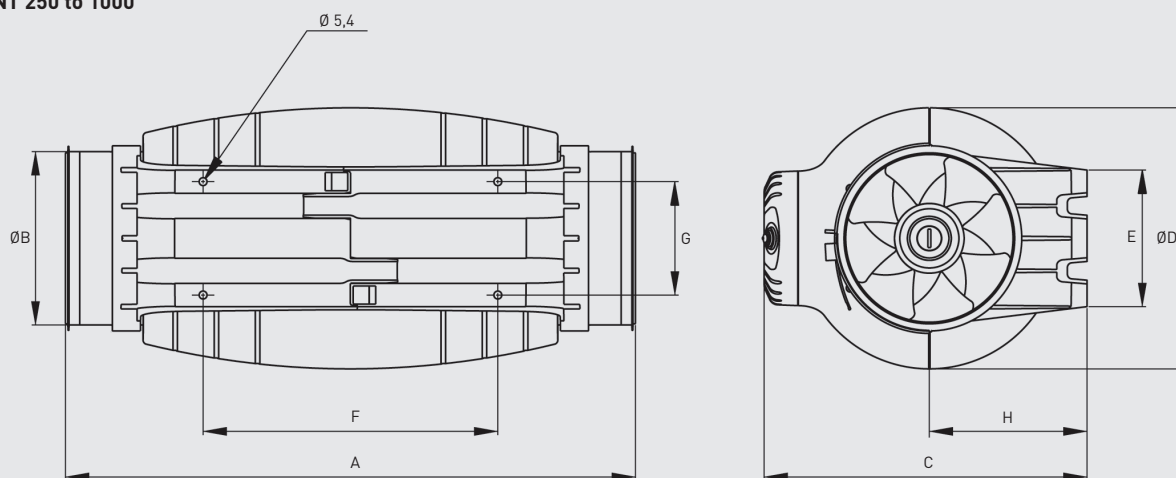
** Temperisation only on high speed.

DIMENSIONS (mm)

TD-160/100 N SILENT



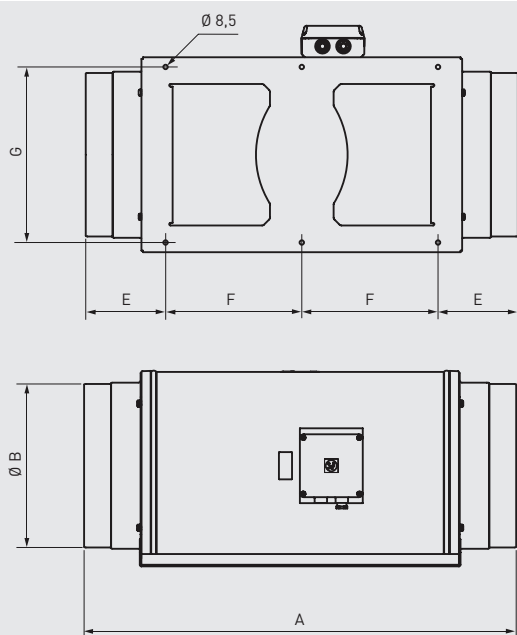
TD-SILENT 250 to 1000



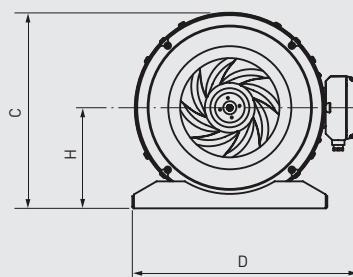
| | A | ØB | C | ØD | E | F | G | H |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| TD-250/100 | 575 | 97 | 252 | 204 | 100 | 250 | 83 | 121 |
| TD-350/125 | 462 | 123 | 252 | 204 | 100 | 250 | 83 | 121 |
| TD-500/150-160* | 484 | 147 | 274 | 221 | 116 | 250 | 96 | 134 |
| TD-800/200 | 568 | 198 | 327 | 264 | 145 | 340 | 129 | 164 |
| TD-1000/200 | 568 | 198 | 327 | 264 | 145 | 340 | 129 | 164 |

* It provides an additional rubber gasket for installation in 160 mm ducts.

TD-SILENT 1300 and 2000



| | A | B | C | D | E | F | G | H |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| TD-1300/250 SILENT | 680 | 248 | 331 | 387 | 140 | 200 | 280 | 171 |
| TD-2000/315 SILENT | 825 | 312 | 373 | 432 | 152 | 260 | 335 | 192 |

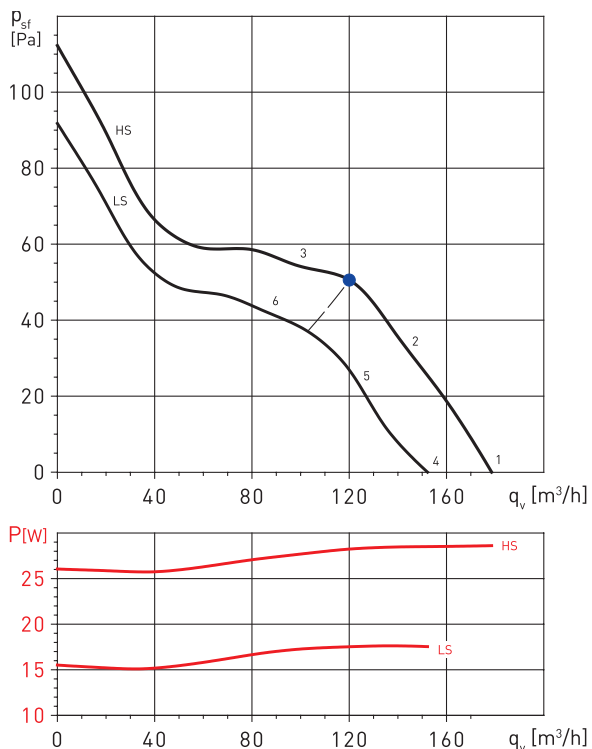


PERFORMANCE CURVES

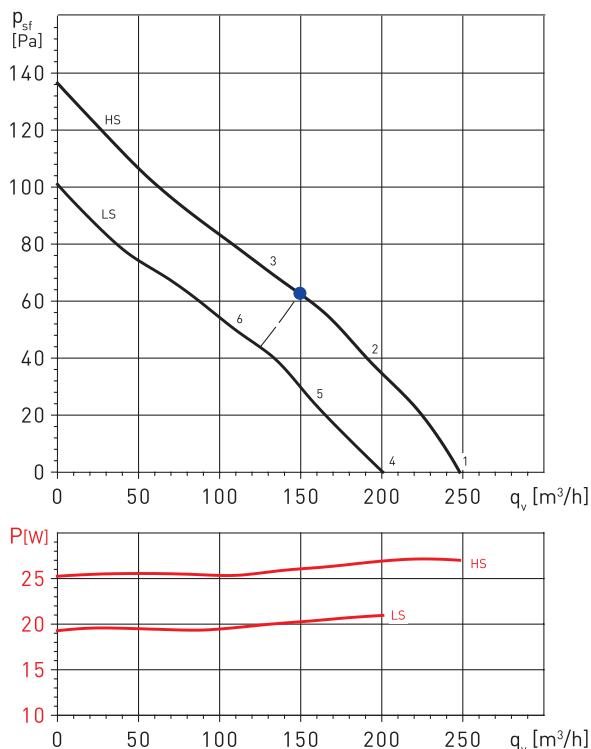
- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).

HS : High speed
MS: Medium speed
LS: Low speed

TD-160/100N SILENT



TD-250/100 SILENT



Sound power level spectrums in dB(A)

| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 22 | 34 | 41 | 47 | 53 | 49 | 40 | 31 | 56 |
| | Outlet | 22 | 43 | 38 | 50 | 51 | 47 | 41 | 32 | 55 |
| | Break-out | 21 | 27 | 41 | 35 | 36 | 40 | 33 | 22 | 45 |
| 2 | Inlet | 21 | 36 | 39 | 47 | 52 | 48 | 39 | 30 | 55 |
| | Outlet | 22 | 42 | 37 | 50 | 50 | 46 | 41 | 31 | 54 |
| | Break-out | 20 | 29 | 39 | 35 | 35 | 39 | 32 | 21 | 44 |
| 3 | Inlet | 24 | 37 | 41 | 48 | 52 | 47 | 39 | 30 | 55 |
| | Outlet | 27 | 42 | 38 | 50 | 51 | 45 | 40 | 31 | 55 |
| | Break-out | 23 | 30 | 41 | 36 | 35 | 38 | 32 | 21 | 45 |
| 4 | Inlet | 22 | 31 | 37 | 45 | 51 | 46 | 38 | 29 | 53 |
| | Outlet | 22 | 38 | 34 | 48 | 49 | 45 | 39 | 29 | 53 |
| | Break-out | 19 | 27 | 36 | 33 | 35 | 38 | 31 | 21 | 42 |
| 5 | Inlet | 21 | 33 | 37 | 45 | 50 | 46 | 37 | 28 | 53 |
| | Outlet | 22 | 38 | 35 | 48 | 48 | 44 | 38 | 29 | 52 |
| | Break-out | 18 | 29 | 36 | 33 | 34 | 38 | 30 | 20 | 42 |
| 6 | Inlet | 23 | 34 | 39 | 45 | 50 | 45 | 37 | 28 | 53 |
| | Outlet | 26 | 38 | 36 | 48 | 49 | 44 | 38 | 28 | 53 |
| | Break-out | 20 | 30 | 38 | 33 | 34 | 37 | 30 | 20 | 43 |

Sound power level spectrums in dB(A)

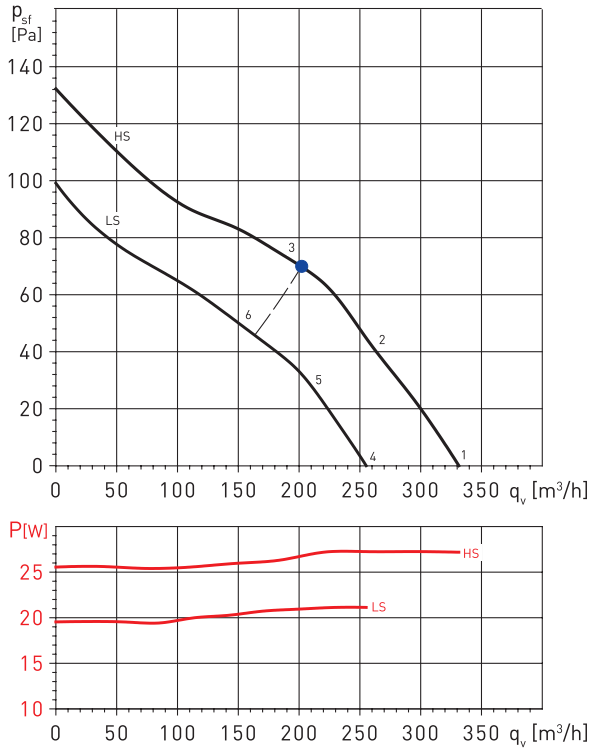
| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 23 | 30 | 46 | 53 | 52 | 44 | 38 | 30 | 57 |
| | Outlet | 26 | 32 | 45 | 54 | 47 | 41 | 36 | 29 | 55 |
| | Break-out | 22 | 27 | 41 | 42 | 36 | 31 | 25 | 18 | 46 |
| 2 | Inlet | 24 | 32 | 46 | 52 | 52 | 45 | 38 | 30 | 56 |
| | Outlet | 24 | 33 | 44 | 52 | 46 | 41 | 37 | 29 | 54 |
| | Break-out | 23 | 29 | 41 | 41 | 36 | 31 | 25 | 18 | 45 |
| 3 | Inlet | 25 | 33 | 42 | 51 | 55 | 47 | 41 | 34 | 57 |
| | Outlet | 25 | 35 | 40 | 51 | 49 | 42 | 39 | 32 | 54 |
| | Break-out | 23 | 30 | 37 | 40 | 39 | 34 | 27 | 22 | 44 |
| 4 | Inlet | 23 | 33 | 42 | 47 | 48 | 38 | 31 | 25 | 51 |
| | Outlet | 23 | 33 | 40 | 47 | 42 | 34 | 29 | 24 | 49 |
| | Break-out | 20 | 30 | 36 | 35 | 32 | 24 | 18 | 15 | 40 |
| 5 | Inlet | 25 | 33 | 43 | 46 | 51 | 40 | 33 | 26 | 53 |
| | Outlet | 23 | 34 | 42 | 47 | 44 | 36 | 32 | 26 | 50 |
| | Break-out | 22 | 31 | 37 | 35 | 34 | 26 | 19 | 16 | 41 |
| 6 | Inlet | 24 | 31 | 39 | 48 | 51 | 43 | 36 | 28 | 54 |
| | Outlet | 25 | 33 | 38 | 49 | 45 | 38 | 34 | 27 | 51 |
| | Break-out | 22 | 28 | 32 | 37 | 35 | 29 | 22 | 19 | 41 |

PERFORMANCE CURVES

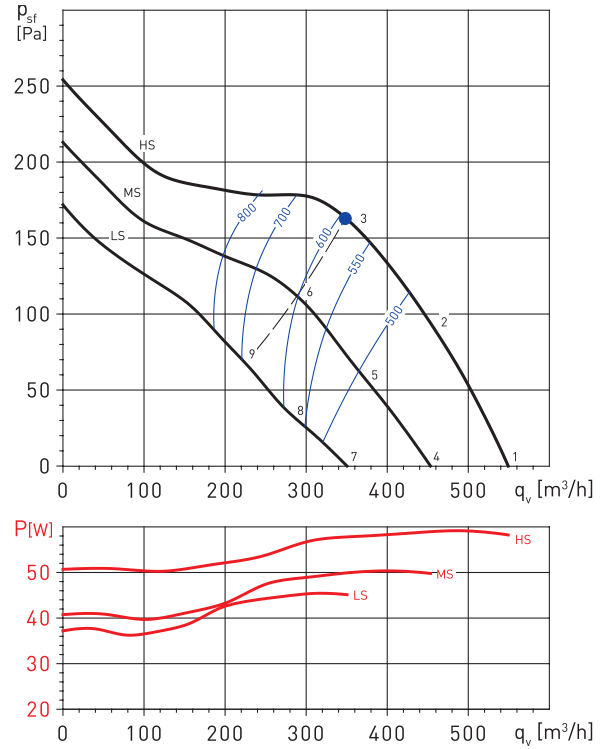
- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).

HS : High speed
MS: Medium speed
LS: Low speed

TD-350/125 SILENT



TD-500/150-160 SILENT 3V



Sound power level spectrums in dB(A)

| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 22 | 26 | 41 | 51 | 51 | 43 | 36 | 29 | 54 |
| | Outlet | 27 | 28 | 42 | 50 | 51 | 44 | 36 | 28 | 55 |
| | Break-out | 19 | 23 | 34 | 40 | 38 | 30 | 20 | 14 | 43 |
| 2 | Inlet | 21 | 25 | 41 | 50 | 50 | 42 | 37 | 29 | 53 |
| | Outlet | 25 | 27 | 40 | 49 | 50 | 41 | 35 | 25 | 53 |
| | Break-out | 18 | 22 | 34 | 39 | 37 | 29 | 21 | 15 | 42 |
| 3 | Inlet | 23 | 30 | 45 | 53 | 51 | 46 | 40 | 31 | 56 |
| | Outlet | 23 | 31 | 44 | 51 | 49 | 43 | 38 | 31 | 54 |
| | Break-out | 20 | 27 | 38 | 42 | 39 | 32 | 24 | 17 | 45 |
| 4 | Inlet | 21 | 24 | 39 | 45 | 46 | 36 | 29 | 25 | 49 |
| | Outlet | 23 | 25 | 39 | 43 | 44 | 35 | 29 | 24 | 48 |
| | Break-out | 18 | 25 | 32 | 35 | 33 | 22 | 14 | 13 | 39 |
| 5 | Inlet | 21 | 25 | 38 | 44 | 46 | 35 | 31 | 25 | 49 |
| | Outlet | 22 | 26 | 37 | 42 | 43 | 33 | 29 | 24 | 47 |
| | Break-out | 18 | 25 | 31 | 34 | 34 | 22 | 16 | 13 | 38 |
| 6 | Inlet | 23 | 29 | 40 | 49 | 49 | 41 | 35 | 27 | 52 |
| | Outlet | 24 | 34 | 40 | 47 | 46 | 38 | 33 | 26 | 50 |
| | Break-out | 19 | 30 | 33 | 38 | 36 | 27 | 20 | 16 | 42 |

Sound power level spectrums in dB(A)

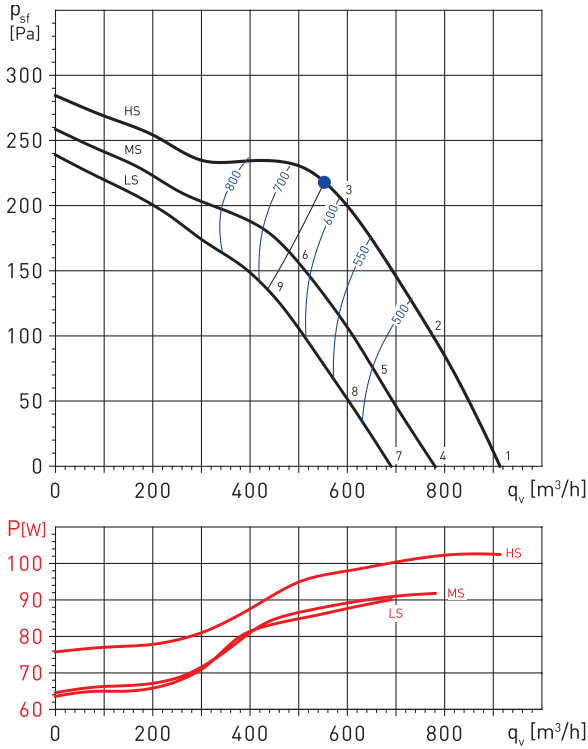
| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 25 | 35 | 52 | 59 | 59 | 58 | 52 | 46 | 64 |
| | Outlet | 38 | 38 | 56 | 59 | 58 | 54 | 49 | 43 | 63 |
| | Break-out | 18 | 28 | 41 | 40 | 43 | 41 | 33 | 28 | 47 |
| 2 | Inlet | 24 | 34 | 50 | 57 | 56 | 55 | 48 | 41 | 62 |
| | Outlet | 33 | 36 | 54 | 56 | 57 | 51 | 45 | 38 | 61 |
| | Break-out | 17 | 26 | 39 | 38 | 40 | 39 | 29 | 24 | 45 |
| 3 | Inlet | 25 | 35 | 49 | 59 | 56 | 54 | 48 | 41 | 62 |
| | Outlet | 26 | 36 | 53 | 59 | 57 | 49 | 44 | 28 | 62 |
| | Break-out | 18 | 28 | 38 | 40 | 40 | 37 | 29 | 24 | 45 |
| 4 | Inlet | 20 | 31 | 48 | 54 | 54 | 53 | 48 | 41 | 60 |
| | Outlet | 33 | 34 | 51 | 54 | 54 | 49 | 45 | 39 | 59 |
| | Break-out | 13 | 23 | 36 | 36 | 38 | 36 | 29 | 24 | 43 |
| 5 | Inlet | 19 | 29 | 45 | 52 | 52 | 51 | 43 | 36 | 57 |
| | Outlet | 28 | 31 | 49 | 52 | 53 | 46 | 40 | 34 | 57 |
| | Break-out | 12 | 21 | 34 | 33 | 35 | 34 | 24 | 19 | 40 |
| 6 | Inlet | 20 | 30 | 45 | 54 | 51 | 50 | 43 | 36 | 57 |
| | Outlet | 21 | 32 | 49 | 54 | 52 | 45 | 39 | 24 | 57 |
| | Break-out | 14 | 23 | 33 | 35 | 35 | 33 | 24 | 19 | 40 |
| 7 | Inlet | 15 | 25 | 42 | 49 | 49 | 48 | 42 | 36 | 54 |
| | Outlet | 28 | 28 | 46 | 49 | 48 | 44 | 39 | 33 | 54 |
| | Break-out | 8 | 18 | 31 | 30 | 33 | 31 | 23 | 18 | 38 |
| 8 | Inlet | 13 | 23 | 40 | 46 | 46 | 45 | 37 | 30 | 51 |
| | Outlet | 22 | 25 | 43 | 46 | 47 | 40 | 34 | 28 | 51 |
| | Break-out | 7 | 16 | 28 | 28 | 29 | 28 | 18 | 13 | 34 |
| 9 | Inlet | 15 | 25 | 39 | 49 | 46 | 44 | 38 | 31 | 52 |
| | Outlet | 16 | 26 | 43 | 49 | 47 | 39 | 34 | 18 | 52 |
| | Break-out | 8 | 17 | 28 | 30 | 29 | 27 | 19 | 13 | 35 |

PERFORMANCE CURVES

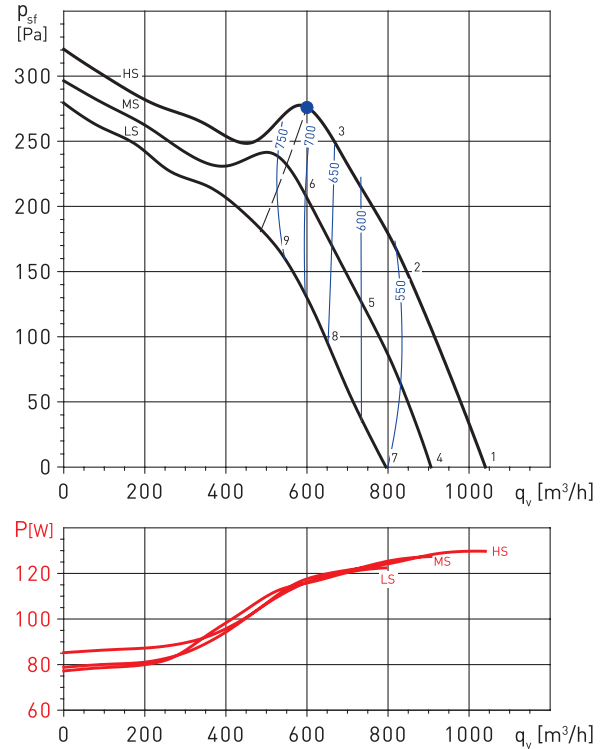
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- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
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MS: Medium speed
LS: Low speed

TD-800/200 SILENT 3V



TD-1000/200 SILENT 3V



Sound power level spectrums in dB(A)

| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 27 | 40 | 49 | 60 | 61 | 62 | 57 | 51 | 66 |
| | Outlet | 44 | 46 | 51 | 60 | 64 | 63 | 60 | 53 | 69 |
| | Break-out | 18 | 34 | 35 | 42 | 45 | 41 | 32 | 24 | 48 |
| 2 | Inlet | 26 | 38 | 47 | 57 | 59 | 59 | 54 | 47 | 64 |
| | Outlet | 42 | 45 | 50 | 60 | 63 | 61 | 58 | 51 | 67 |
| | Break-out | 18 | 32 | 33 | 40 | 42 | 39 | 29 | 20 | 46 |
| 3 | Inlet | 26 | 40 | 50 | 60 | 61 | 60 | 56 | 50 | 66 |
| | Outlet | 33 | 40 | 51 | 60 | 61 | 59 | 55 | 49 | 65 |
| | Break-out | 18 | 33 | 36 | 43 | 44 | 40 | 30 | 23 | 48 |
| 4 | Inlet | 23 | 36 | 45 | 56 | 58 | 58 | 54 | 47 | 63 |
| | Outlet | 41 | 43 | 48 | 57 | 61 | 60 | 56 | 49 | 65 |
| | Break-out | 14 | 30 | 31 | 39 | 41 | 38 | 28 | 20 | 45 |
| 5 | Inlet | 23 | 35 | 43 | 54 | 56 | 56 | 51 | 44 | 61 |
| | Outlet | 39 | 41 | 47 | 56 | 59 | 58 | 54 | 47 | 63 |
| | Break-out | 14 | 29 | 29 | 36 | 39 | 36 | 25 | 17 | 42 |
| 6 | Inlet | 24 | 37 | 47 | 58 | 58 | 58 | 53 | 47 | 63 |
| | Outlet | 30 | 37 | 48 | 57 | 58 | 56 | 52 | 46 | 63 |
| | Break-out | 15 | 31 | 33 | 41 | 42 | 38 | 27 | 20 | 45 |
| 7 | Inlet | 20 | 34 | 43 | 53 | 55 | 55 | 51 | 44 | 60 |
| | Outlet | 38 | 40 | 45 | 54 | 58 | 57 | 54 | 47 | 62 |
| | Break-out | 12 | 28 | 29 | 36 | 38 | 35 | 25 | 17 | 42 |
| 8 | Inlet | 20 | 32 | 41 | 51 | 53 | 53 | 48 | 41 | 58 |
| | Outlet | 36 | 39 | 44 | 54 | 57 | 55 | 52 | 45 | 61 |
| | Break-out | 12 | 26 | 27 | 34 | 36 | 33 | 23 | 14 | 40 |
| 9 | Inlet | 22 | 35 | 45 | 56 | 56 | 56 | 51 | 45 | 61 |
| | Outlet | 28 | 35 | 46 | 55 | 56 | 54 | 50 | 44 | 60 |
| | Break-out | 13 | 29 | 31 | 38 | 39 | 35 | 25 | 18 | 43 |

Sound power level spectrums in dB(A)

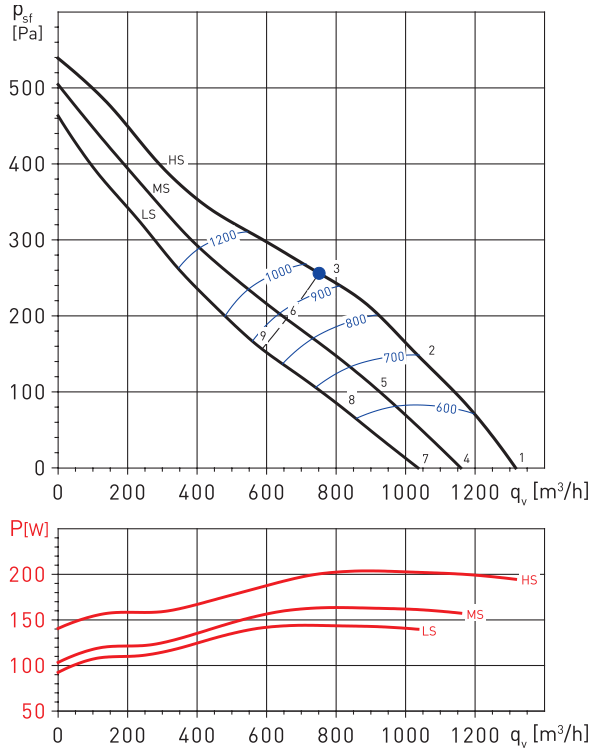
| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 27 | 40 | 50 | 60 | 62 | 64 | 60 | 53 | 68 |
| | Outlet | 46 | 47 | 54 | 61 | 66 | 65 | 62 | 55 | 70 |
| | Break-out | 17 | 33 | 35 | 44 | 45 | 43 | 35 | 28 | 49 |
| 2 | Inlet | 27 | 38 | 49 | 59 | 61 | 62 | 56 | 49 | 66 |
| | Outlet | 41 | 43 | 52 | 59 | 63 | 61 | 57 | 50 | 67 |
| | Break-out | 16 | 31 | 34 | 42 | 43 | 40 | 31 | 24 | 47 |
| 3 | Inlet | 28 | 41 | 54 | 63 | 63 | 62 | 58 | 51 | 68 |
| | Outlet | 32 | 41 | 55 | 62 | 62 | 59 | 56 | 47 | 67 |
| | Break-out | 17 | 33 | 39 | 46 | 45 | 41 | 33 | 26 | 50 |
| 4 | Inlet | 26 | 39 | 49 | 59 | 61 | 63 | 58 | 51 | 67 |
| | Outlet | 44 | 46 | 53 | 59 | 64 | 64 | 61 | 53 | 69 |
| | Break-out | 15 | 32 | 34 | 43 | 43 | 41 | 33 | 26 | 48 |
| 5 | Inlet | 25 | 37 | 47 | 57 | 59 | 61 | 55 | 48 | 65 |
| | Outlet | 39 | 42 | 50 | 58 | 62 | 60 | 56 | 49 | 66 |
| | Break-out | 15 | 29 | 33 | 41 | 42 | 39 | 30 | 23 | 46 |
| 6 | Inlet | 26 | 39 | 52 | 61 | 61 | 61 | 56 | 50 | 67 |
| | Outlet | 31 | 39 | 54 | 60 | 61 | 58 | 54 | 46 | 65 |
| | Break-out | 16 | 32 | 37 | 45 | 43 | 39 | 31 | 24 | 48 |
| 7 | Inlet | 23 | 36 | 46 | 56 | 58 | 60 | 55 | 48 | 64 |
| | Outlet | 41 | 43 | 50 | 56 | 61 | 61 | 58 | 50 | 66 |
| | Break-out | 12 | 29 | 31 | 40 | 40 | 38 | 30 | 23 | 45 |
| 8 | Inlet | 23 | 34 | 45 | 54 | 57 | 58 | 52 | 45 | 62 |
| | Outlet | 37 | 39 | 47 | 55 | 59 | 57 | 53 | 46 | 63 |
| | Break-out | 12 | 26 | 30 | 38 | 39 | 36 | 27 | 20 | 43 |
| 9 | Inlet | 24 | 37 | 50 | 59 | 59 | 58 | 54 | 47 | 64 |
| | Outlet | 28 | 37 | 52 | 58 | 58 | 55 | 52 | 43 | 63 |
| | Break-out | 13 | 30 | 35 | 43 | 41 | 37 | 29 | 22 | 46 |

PERFORMANCE CURVES

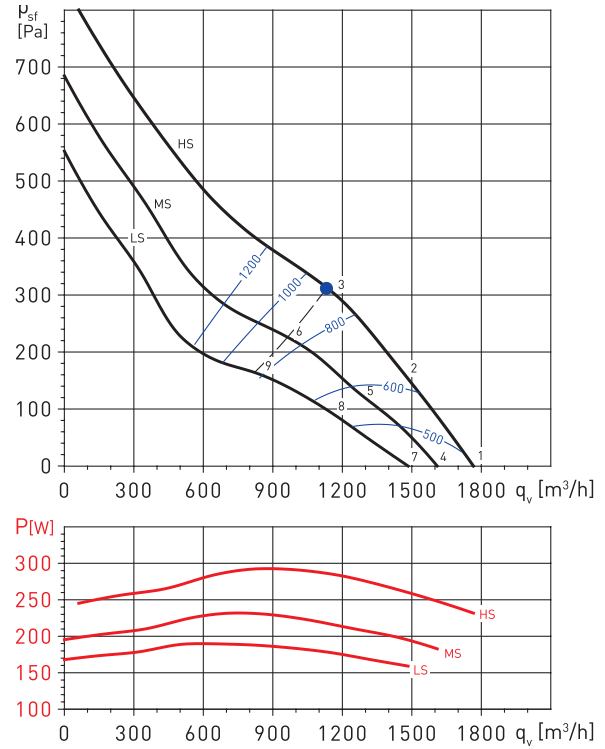
- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).

HS : High speed
MS : Medium speed
LS : Low speed

TD-1300/250 SILENT 3V



TD-2000/315 SILENT 3V



Sound power level spectrums in dB(A)

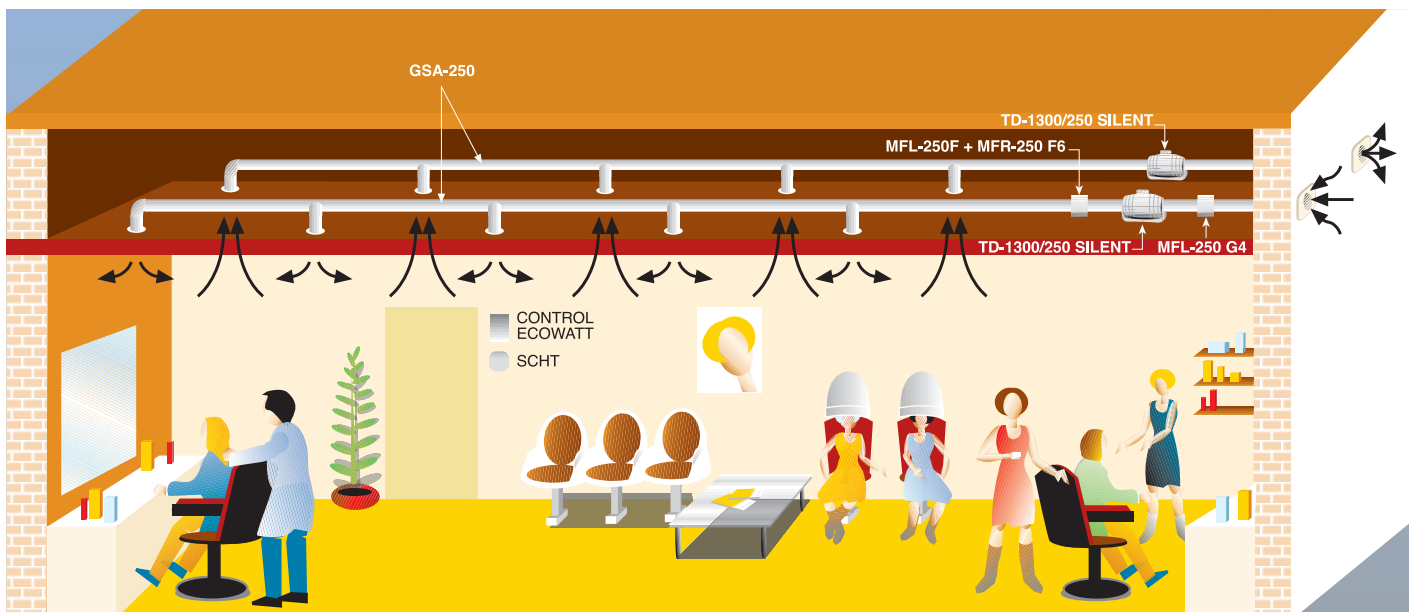
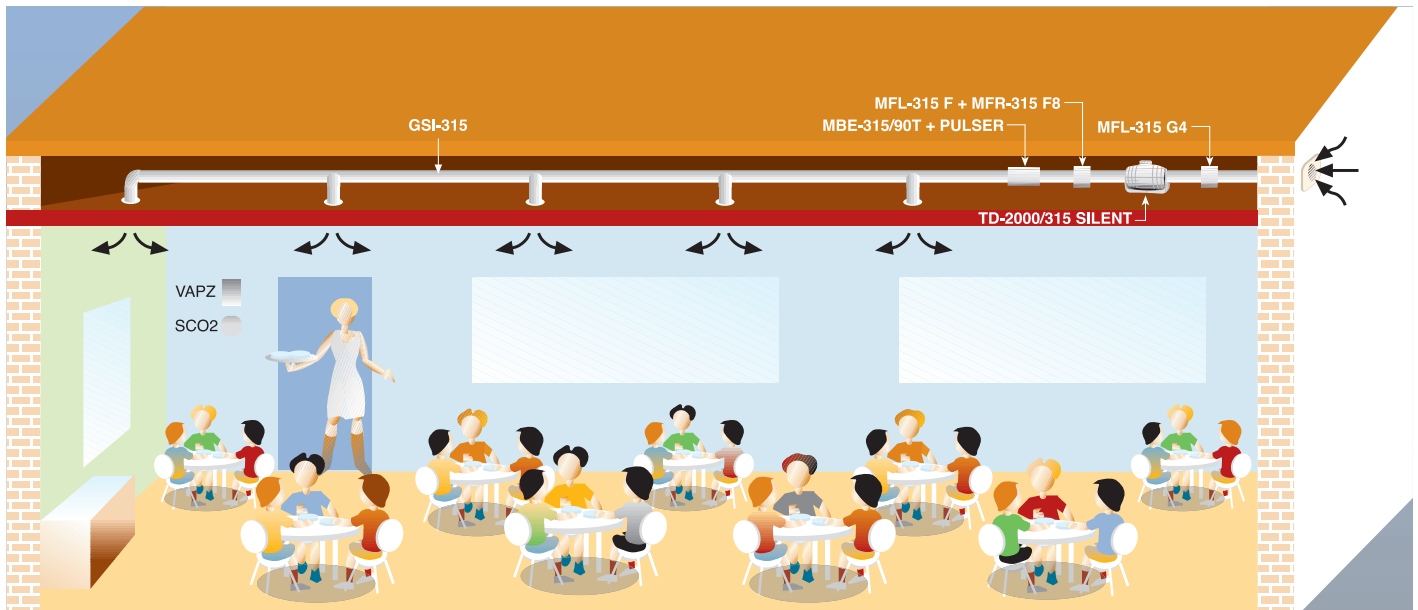
| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 30 | 42 | 60 | 59 | 62 | 61 | 58 | 52 | 67 |
| | Outlet | 33 | 45 | 60 | 68 | 72 | 65 | 54 | 48 | 74 |
| | Break-out | 26 | 31 | 46 | 42 | 55 | 48 | 39 | 38 | 57 |
| 2 | Inlet | 32 | 43 | 62 | 60 | 61 | 60 | 56 | 51 | 67 |
| | Outlet | 30 | 46 | 61 | 69 | 71 | 63 | 52 | 47 | 74 |
| | Break-out | 28 | 32 | 48 | 43 | 54 | 47 | 37 | 37 | 56 |
| 3 | Inlet | 36 | 47 | 63 | 60 | 58 | 58 | 55 | 48 | 67 |
| | Outlet | 32 | 51 | 62 | 69 | 67 | 60 | 51 | 44 | 72 |
| | Break-out | 32 | 36 | 49 | 43 | 51 | 45 | 36 | 34 | 54 |
| 4 | Inlet | 27 | 39 | 57 | 56 | 59 | 58 | 55 | 49 | 65 |
| | Outlet | 30 | 42 | 57 | 65 | 69 | 62 | 51 | 45 | 72 |
| | Break-out | 23 | 28 | 43 | 39 | 52 | 45 | 36 | 35 | 54 |
| 5 | Inlet | 29 | 40 | 59 | 57 | 58 | 57 | 53 | 48 | 64 |
| | Outlet | 27 | 43 | 58 | 66 | 68 | 60 | 49 | 44 | 71 |
| | Break-out | 25 | 29 | 45 | 40 | 51 | 44 | 34 | 34 | 53 |
| 6 | Inlet | 33 | 44 | 60 | 57 | 55 | 55 | 52 | 45 | 64 |
| | Outlet | 29 | 48 | 59 | 66 | 64 | 57 | 48 | 41 | 69 |
| | Break-out | 29 | 33 | 46 | 40 | 48 | 42 | 33 | 31 | 51 |
| 7 | Inlet | 25 | 37 | 55 | 54 | 57 | 56 | 53 | 47 | 63 |
| | Outlet | 28 | 40 | 55 | 63 | 67 | 60 | 49 | 43 | 70 |
| | Break-out | 21 | 26 | 41 | 37 | 50 | 43 | 34 | 33 | 52 |
| 8 | Inlet | 27 | 38 | 57 | 55 | 56 | 55 | 51 | 46 | 62 |
| | Outlet | 25 | 41 | 56 | 64 | 66 | 58 | 47 | 42 | 69 |
| | Break-out | 23 | 27 | 43 | 38 | 49 | 42 | 32 | 32 | 51 |
| 9 | Inlet | 31 | 42 | 58 | 55 | 53 | 53 | 50 | 43 | 62 |
| | Outlet | 27 | 46 | 57 | 64 | 62 | 55 | 46 | 39 | 67 |
| | Break-out | 27 | 31 | 44 | 38 | 46 | 40 | 31 | 29 | 49 |

Sound power level spectrums in dB(A)

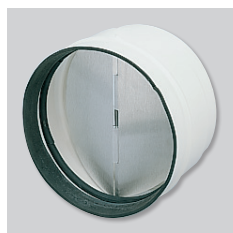
| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|-----------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 34 | 48 | 60 | 63 | 66 | 64 | 59 | 55 | 70 |
| | Outlet | 42 | 54 | 67 | 69 | 73 | 66 | 52 | 49 | 76 |
| | Break-out | 23 | 36 | 44 | 50 | 57 | 54 | 49 | 43 | 60 |
| 2 | Inlet | 34 | 49 | 63 | 62 | 65 | 64 | 60 | 55 | 70 |
| | Outlet | 38 | 55 | 66 | 67 | 73 | 65 | 51 | 49 | 75 |
| | Break-out | 23 | 37 | 47 | 49 | 56 | 54 | 50 | 43 | 60 |
| 3 | Inlet | 37 | 56 | 64 | 63 | 63 | 62 | 58 | 52 | 70 |
| | Outlet | 36 | 61 | 68 | 71 | 68 | 62 | 49 | 46 | 74 |
| | Break-out | 26 | 44 | 48 | 50 | 54 | 52 | 48 | 40 | 58 |
| 4 | Inlet | 32 | 46 | 58 | 61 | 64 | 62 | 57 | 53 | 69 |
| | Outlet | 40 | 52 | 65 | 67 | 71 | 64 | 50 | 47 | 74 |
| | Break-out | 21 | 34 | 42 | 48 | 55 | 52 | 47 | 41 | 58 |
| 5 | Inlet | 32 | 47 | 61 | 60 | 63 | 62 | 58 | 53 | 68 |
| | Outlet | 36 | 53 | 64 | 65 | 71 | 63 | 49 | 47 | 73 |
| | Break-out | 21 | 35 | 45 | 47 | 54 | 52 | 48 | 41 | 57 |
| 6 | Inlet | 34 | 53 | 61 | 60 | 60 | 59 | 55 | 49 | 67 |
| | Outlet | 33 | 58 | 65 | 68 | 65 | 59 | 46 | 43 | 71 |
| | Break-out | 23 | 41 | 45 | 47 | 51 | 49 | 45 | 37 | 55 |
| 7 | Inlet | 30 | 44 | 56 | 59 | 62 | 60 | 55 | 51 | 66 |
| | Outlet | 38 | 50 | 63 | 65 | 69 | 62 | 48 | 45 | 72 |
| | Break-out | 19 | 32 | 40 | 46 | 53 | 50 | 45 | 39 | 56 |
| 8 | Inlet | 29 | 44 | 58 | 57 | 60 | 59 | 55 | 50 | 65 |
| | Outlet | 33 | 50 | 61 | 62 | 68 | 60 | 46 | 44 | 70 |
| | Break-out | 18 | 32 | 42 | 44 | 51 | 49 | 45 | 38 | 54 |
| 9 | Inlet | 30 | 49 | 57 | 56 | 56 | 55 | 51 | 45 | 63 |
| | Outlet | 29 | 54 | 61 | 64 | 61 | 55 | 42 | 39 | 67 |
| | Break-out | 19 | 37 | 41 | 43 | 47 | 45 | 41 | 33 | 51 |

PRACTICAL EXAMPLES OF INSTALLING TD SILENT RANGE

TD Silent range offers one of the most versatile fan systems on the market today. Due to its flexibility it can be used in a multitude of small or medium fan installations. Especially in places where working people and the ventilation system works for many hours, in these cases the sound level becomes an essential element for comfort.



MOUNTING ACCESSORIES



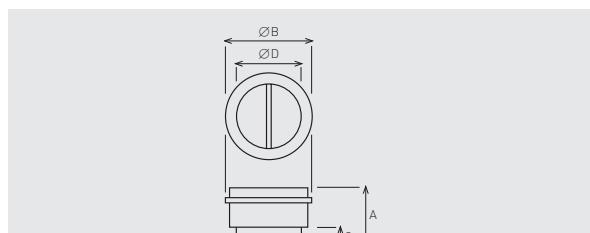
MCA-S

Non-return flaps to be installed at the fan discharge. They prevent heat leakages when the extractor is not operating.

| MCA-S | TD-SILENT* range |
|------------------|--------------------|
| MCA - 250 S | 250/100 |
| MCA - 350 S | 350/125 |
| MCA - 500/150 S | 500/150 |
| MCA - 500/160 S | 500/160 |
| MCA - 800-1000 S | 800/200 - 1000/200 |

| MCA | TD-SILENT* range |
|------------|------------------|
| MCA - 1000 | 1300/250 |
| MCA - 2000 | 2000/315 |

(* TD-1300/250 SILENT and TD-2000/315 SILENT models use non-return flaps MCA (see TD Series accessories).



| MCA-S | A | Ø B | C | Ø D |
|------------------|-------|-------|------|-------|
| MCA - 250 S | 107 | 109 | 31,5 | 94,5 |
| MCA - 350 S | 107 | 136 | 31,5 | 119,5 |
| MCA - 500/150 S | 121 | 163,5 | 35 | 147 |
| MCA - 500/160 S | 121 | 173,5 | 35 | 157 |
| MCA - 800-1000 S | 131,5 | 214 | 35 | 197,5 |

| MCA | A | Ø B | C | Ø D |
|------------|-----|-------|----|-----|
| MCA - 1000 | 164 | 264,5 | 42 | 248 |
| MCA - 2000 | 205 | 330 | 50 | 312 |



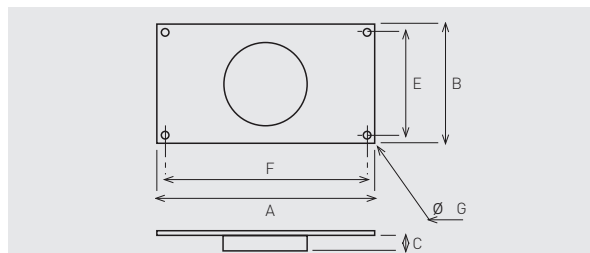
MAR-S

Rectangular duct adapters enable connection to rectangular ducting.

| MAR-S | TD-SILENT* range | Nominal dimensions of the duct L X H (mm) |
|------------------|-------------------|---|
| MAR - 250-350 S | 250/100 - 350/125 | 224 x 140 |
| MAR - 500 S | 500/150 | 280 x 180 |
| MAR - 800-1000 S | 800/200-1000/200 | 315 x 200 |

| MAR | TD-SILENT* range | Nominal dimensions of the duct L X H (mm) |
|------------|------------------|---|
| MAR - 1000 | 1300/250 | 400 x 250 |
| MAR - 2000 | 2000/315 | 500 x 315 |

(* TD-1300/250 SILENT and TD-2000/315 SILENT models use rectangular duct adapters MAR (see TD Series accessories).



| MAR-S | A | B | C | E | F | Ø G |
|------------------|-----|-----|------|-----|-----|-----|
| MAR - 250-350 S | 264 | 180 | 33,3 | 160 | 244 | 9 |
| MAR - 500 S | 320 | 220 | 37 | 200 | 300 | 9 |
| MAR - 800-1000 S | 355 | 240 | 37 | 220 | 335 | 9 |

| MAR | A | B | C | E | F | Ø G |
|------------|-----|-----|----|-----|-----|-----|
| MAR - 1000 | 440 | 290 | 42 | 270 | 420 | 9 |
| MAR - 2000 | 540 | 355 | 52 | 355 | 520 | 9 |



MRJ-S

Grilles mounted at the inlet or outlet of the fan, to prevent the entry of any foreign objects that could damage the fan.

| MRJ-S | TD-SILENT* range |
|---------------------|--------------------|
| MRJ - 250-350 S | 250/100 - 350/125 |
| MRJ - 500/150-160 S | 500/150 - 500/160 |
| MRJ - 800-1000 S | 800/200 - 1000/200 |

| MRJ | TD-SILENT* range |
|------------|------------------|
| MRJ - 1000 | 1300/250 |
| MRJ - 2000 | 2000/315 |

(* TD-1300/250 SILENT and TD-2000/315 SILENT models use grilles MRJ (see TD Series accessories).

MOUNTING ACCESSORIES

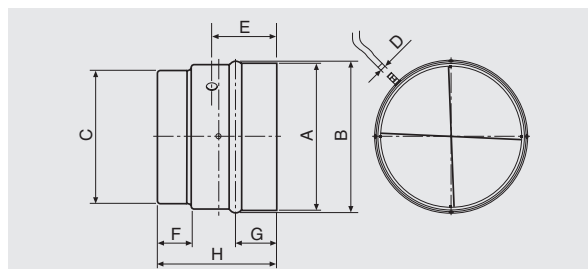


MPC-S
Flow detectors designed to correctly measure pressures at the inlet of series TD devices with airflow straightener.

| MPC-S | TD-SILENT* range |
|----------------|--------------------|
| MPC-250 S | 250/100 |
| MPC-350 S | 350/125 |
| MPC-500/150 S | 500/150 - 500/160 |
| MPC-500/160 S | 500/160 |
| MPC-800-1000 S | 800/200 - 1000/200 |

| MPC | TD-SILENT* range |
|----------|------------------|
| MPC-1000 | 1300/250 |
| MPC-2000 | 2000/315 |

(* TD-1300/250 SILENT and TD-2000/315 SILENT models use flow detectors MPC (see TD Series accessories).



| MPC-S | A | B | C | D | E | F | G | H |
|----------------|-----|-------|------|---|----|------|------|-------|
| MPC-250 S | 108 | 108,7 | 94,5 | 6 | 58 | 31,5 | 36,5 | 105,5 |
| MPC-350 S | 136 | 132 | 120 | 6 | 58 | 32 | 37 | 107 |
| MPC-500/150 S | 164 | 158 | 147 | 6 | 64 | 35 | 40 | 121 |
| MPC-500/160 S | 174 | 168 | 157 | 6 | 64 | 35 | 40 | 121 |
| MPC-800-1000 S | 214 | 208 | 198 | 6 | 70 | 35 | 40 | 132 |

| MPC | A | B | C | D | E | F | G | H |
|----------|-----|-----|-----|---|-----|----|----|-----|
| MPC-1000 | 265 | 260 | 248 | 6 | 85 | 42 | 47 | 164 |
| MPC-2000 | 329 | 318 | 312 | 6 | 106 | 50 | 55 | 204 |



MBR-S
Flanges allowing the coupling of TD-Silent fans in series.

| MBR-S | Ø of the conduct |
|----------------|------------------|
| MBR-250-350 S | 125 |
| MBR-500 S | 150 |
| MBR-800-1000 S | 200 |

(* TD-1300/250 SILENT and TD-2000/315 SILENT models use flange MBR (see TD Series accessories).

ELECTRICAL ACCESSORIES



REGUL 2
 2 speed switch.



REB
 Single phase electronic speed controller.



CONTROL ECOWATT AC/4A
Control element for demand controlled ventilation systems in public, commercial residential buildings it automatically modifies the fan speed to adapt it to the needs defined in the system, measured with sensors.



VAPZ
Electronic single phase regulator that controls the fan speed with a simple contact (presence detector) or an analogical input, 0-10 V or 4-20 mA (from CO₂ probe or relative sensor).



SC02-A
 Ambient CO₂ and temperature sensor.

SC02-AD
 Ambient CO₂ and temperature sensor, with display.

SCHT-AD
 Ambient CO₂, temperature and relative humidity with display.



CPTA-S/CPTA-E
 Presence detector.



TDP-S/TDP-D/TDP-PI
Pressure sensor. Enables you to control the pressure in the fan inlet.
 Pressure range: 0-2500 Pa.
 Output signal: 0-10V/4-20 mA.



REMP
Motorised damper, opens proportionately and is controlled by the BEAS control module.
 Power supply: 24 VAC or 24 VD, depending on the models.