

THT/WALL-F

Dynamic wall mounted extractor fans with motorised hatch, for smoke exhaust in case of fires, 400 °C/2h and 300 °C/2h



Dynamic wall extractor fans with motorised opening system and protective grating for use without extract duct. Specially designed for the fast, effective exhaust of harmful smoke and gases in the event of fire. Suitable for installation in industrial buildings, stores or in any other type of building. Can be used for ambient ventilation.

Fan:

- Wall fixing flange for correct and easy installation.
- Support frame in galvanised sheet steel.
- Approved in accordance with standard EN 12101-3, with certifications no.: 0370-CPR-0305 (F400) and 0370-CPR-0973 (F300).
- Variable angle impeller made of cast aluminium.
- Shielded power cable with EMC protection.
- Airflow direction from motor to impeller.
- Protection grid against contacts according to UNE-EN ISO 12499.

Extruded aluminum hatch:

- An extremely robust structure that is able to withstand severe weather changes.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.
- Central ceiling and structure equipped with high performance thermal insulation.
- Thermal resistance of the assembly less than 0.89 W/m²·K.
- Position indicators in both positions (open and closed).

- Upper and lower opening mounting versions.
- Manual opening system.
- Airborne acoustic insulation value according to UNE-EN ISO 10140-2: $R_w = 27 (0; -2)$ dB.

Motor:

- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings, IP55 protection and 1 or 2 speeds, depending on model.
- IE3 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum temperature of air to be carried: S1 -25 °C +40 °C continuous service, also suitable for warm climates with temperatures up to 50 °C. S2 operation, 300 °C/2h, 400 °C/2h.

Actuator:

- Reliability greater than 20,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.
- Protection at the leading edge when closing the hatch.
- The stop in the closed position is regulated by an electronic limit switch.

Hatch finish:

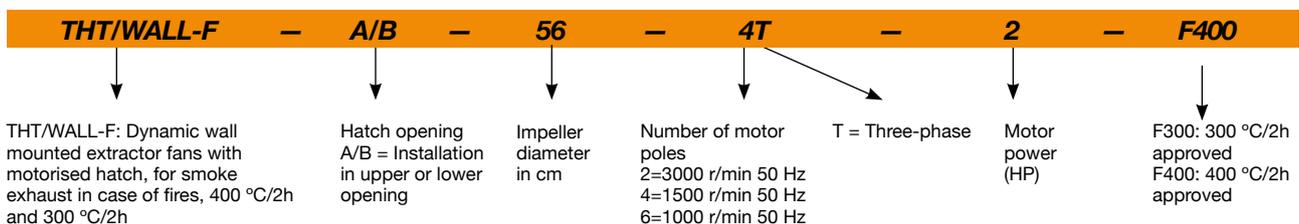
- Anti-corrosive in extruded aluminum.
- RAL 7024M supplied as standard. Any other RAL can be supplied on demand.

On request:

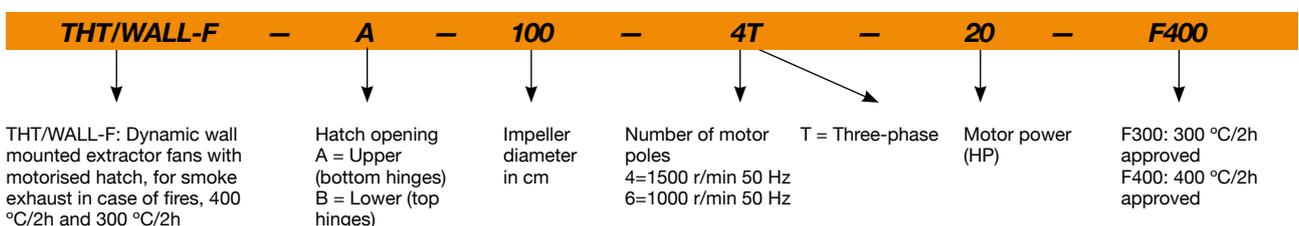
- Actuator with 24 V DC supply voltage.

Order code

From size 40 to size 56



From size 63 to size 100



Technical characteristics

| Model | Speed (r/min) | Maximum admissible current (A) | | | Installed power (kW) | Blade tilt angle (°) | Maximum flow rate (m³/h) | Sound pressure level¹ dB (A) | | Approx. weight (Kg) |
|---------------------------|------------------|--------------------------------|------|-------|-------------------------|-------------------------|-----------------------------|---------------------------------|---------|------------------------|
| | | 230V | 400V | 690V | | | | Inlet | Exhaust | |
| THT/WALL-F-40-2T-1.5 IE3 | 2880 | 3.93 | 2.26 | | 1.10 | 20 | 7040 | 61 | 61 | 55 |
| THT/WALL-F-45-2T-2 IE3 | 2880 | 4.91 | 2.84 | | 1.50 | 16 | 9400 | 61 | 61 | 63 |
| THT/WALL-F-45-2T-3 IE3 | 2840 | 7.14 | 4.13 | | 2.20 | 22 | 11325 | 61 | 61 | 67 |
| THT/WALL-F-56-4T-2 IE3 | 1440 | 5.89 | 3.38 | | 1.50 | 36 | 15020 | 54 | 54 | 69 |
| THT/WALL-F-63-4T-3 IE3 | 1425 | 7.86 | 4.52 | | 2.20 | 32 | 22170 | 58 | 58 | 97 |
| THT/WALL-F-63-4T-4 IE3 | 1430 | 11.01 | 6.33 | | 3.00 | 38 | 24240 | 59 | 59 | 103 |
| THT/WALL-F-71-4T-3 IE3 | 1425 | 7.86 | 4.52 | | 2.20 | 22 | 25100 | 60 | 60 | 100 |
| THT/WALL-F-71-4T-4 IE3 | 1430 | 11.01 | 6.33 | | 3.00 | 28 | 27480 | 60 | 60 | 106 |
| THT/WALL-F-71-6T-1.5 IE3 | 945 | 4.73 | 2.72 | | 1.10 | 34 | 19930 | 51 | 51 | 98 |
| THT/WALL-F-80-4T-3 IE3 | 1425 | 7.86 | 4.52 | | 2.20 | 12 | 25460 | 65 | 65 | 114 |
| THT/WALL-F-80-4T-4 IE3 | 1430 | 11.01 | 6.33 | | 3.00 | 16 | 30270 | 64 | 64 | 120 |
| THT/WALL-F-80-4T-5.5 IE3 | 1440 | | 7.95 | 4.61 | 4.00 | 18 | 32770 | 63 | 63 | 122 |
| THT/WALL-F-80-4T-7.5 IE3 | 1460 | | 10.4 | 6.04 | 5.50 | 26 | 39640 | 63 | 63 | 152 |
| THT/WALL-F-80-6T-1.5 IE3 | 945 | 4.73 | 2.72 | | 1.10 | 18 | 21470 | 53 | 53 | 112 |
| THT/WALL-F-80-6T-2 IE3 | 945 | 6.25 | 3.62 | | 1.50 | 26 | 25970 | 54 | 54 | 116 |
| THT/WALL-F-90-4T-7.5 IE3 | 1460 | | 10.4 | 6.04 | 5.50 | 18 | 46140 | 67 | 67 | 183 |
| THT/WALL-F-90-4T-10 IE3 | 1460 | | 14.2 | 8.17 | 7.50 | 22 | 50140 | 66 | 66 | 187 |
| THT/WALL-F-90-6T-3 IE3 | 950 | 9.78 | 5.62 | | 2.20 | 24 | 34000 | 56 | 56 | 145 |
| THT/WALL-F-90-6T-4 IE3 | 970 | 12.8 | 6.36 | | 3.00 | 30 | 38910 | 59 | 59 | 165 |
| THT/WALL-F-100-4T-10 IE3 | 1460 | | 14.2 | 8.17 | 7.50 | 16 | 57420 | 69 | 69 | 194 |
| THT/WALL-F-100-4T-15 IE3 | 1460 | | 20.7 | 11.99 | 11.00 | 22 | 66300 | 69 | 69 | 226 |
| THT/WALL-F-100-4T-20 IE3 | 1460 | | 27.8 | 16.03 | 15.00 | 28 | 76160 | 70 | 70 | 237 |
| THT/WALL-F-100-6T-5.5 IE3 | 970 | | 8.37 | 4.82 | 4.00 | 26 | 47780 | 60 | 60 | 178 |

¹ The noise level values are pressures in dB(A) measured at a distance of 10 metres in a free field.

Technical characteristics of the dynamic exhaust system based on standard EN 12101-3

| Model | Approval (°C) | Motor insulation class | Durability | Temperature room temperature (°C) | Wind load (Pa) |
|------------|------------------|------------------------|------------|--------------------------------------|-------------------|
| THT/WALL-F | F300 and F400 | Class H | RE >20000 | -25 | WL 200 |

Acoustic characteristics

The values given are obtained under laboratory conditions according to ISO 3744.
Sound power spectrum Lw(A) in dB(A) per Hz frequency band

Values measured at inlet with maximum flow rate

| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|-----------|----|-----|-----|-----|------|------|------|------|
| 40-2-1.5 | 47 | 63 | 75 | 83 | 88 | 86 | 82 | 75 |
| 45-2-2 | 47 | 60 | 74 | 86 | 87 | 86 | 82 | 74 |
| 45-2-3 | 47 | 64 | 74 | 81 | 88 | 86 | 83 | 75 |
| 56-4-2 | 52 | 64 | 73 | 79 | 79 | 79 | 73 | 65 |
| 63-4-3 | 56 | 68 | 77 | 83 | 83 | 83 | 77 | 69 |
| 63-4-4 | 57 | 69 | 78 | 84 | 84 | 84 | 78 | 70 |
| 71-4-3 | 56 | 72 | 79 | 85 | 85 | 85 | 81 | 73 |
| 71-4-4 | 63 | 75 | 79 | 85 | 85 | 86 | 83 | 75 |
| 71-6-1.5 | 47 | 65 | 74 | 77 | 77 | 72 | 65 | 56 |
| 80-4-3 | 55 | 71 | 84 | 91 | 91 | 88 | 82 | 74 |
| 80-4-4 | 54 | 70 | 83 | 90 | 90 | 87 | 81 | 73 |
| 80-4-5.5 | 53 | 69 | 82 | 89 | 89 | 86 | 80 | 72 |
| 80-4-7.5 | 53 | 69 | 82 | 89 | 89 | 86 | 80 | 72 |
| 80-6-1.5 | 53 | 68 | 75 | 78 | 79 | 76 | 70 | 62 |
| 80-6-2 | 59 | 69 | 75 | 79 | 80 | 78 | 73 | 65 |
| 90-4-7.5 | 59 | 75 | 86 | 92 | 93 | 91 | 86 | 78 |
| 90-4-10 | 58 | 74 | 85 | 91 | 92 | 90 | 85 | 77 |
| 90-6-3 | 52 | 67 | 78 | 82 | 82 | 78 | 71 | 63 |
| 90-6-4 | 60 | 70 | 80 | 85 | 85 | 82 | 76 | 68 |
| 100-4-10 | 64 | 80 | 87 | 94 | 95 | 93 | 89 | 81 |
| 100-4-15 | 71 | 83 | 87 | 93 | 94 | 94 | 91 | 83 |
| 100-4-20 | 72 | 84 | 88 | 94 | 95 | 95 | 92 | 84 |
| 100-6-5.5 | 57 | 72 | 82 | 85 | 86 | 83 | 75 | 67 |

Values measured at exhaust with maximum flow rate

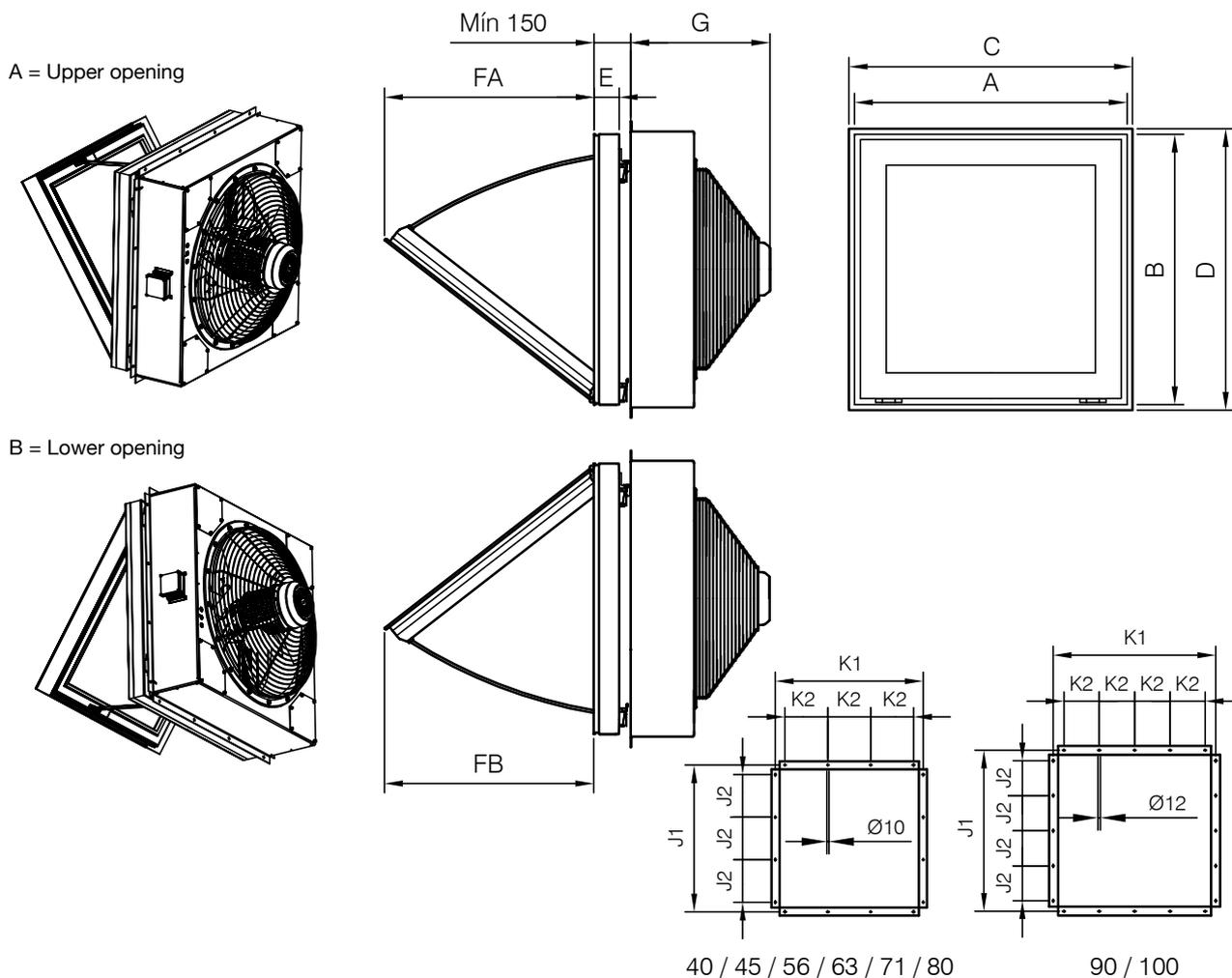
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|-----------|----|-----|-----|-----|------|------|------|------|
| 40-2-1.5 | 47 | 63 | 75 | 83 | 88 | 86 | 82 | 75 |
| 45-2-2 | 47 | 60 | 74 | 86 | 87 | 86 | 82 | 74 |
| 45-2-3 | 47 | 64 | 74 | 81 | 88 | 86 | 83 | 75 |
| 56-4-2 | 52 | 64 | 73 | 79 | 79 | 79 | 73 | 65 |
| 63-4-3 | 56 | 68 | 77 | 83 | 83 | 83 | 77 | 69 |
| 63-4-4 | 57 | 69 | 78 | 84 | 84 | 84 | 78 | 70 |
| 71-4-3 | 56 | 72 | 79 | 85 | 85 | 85 | 81 | 73 |
| 71-4-4 | 63 | 75 | 79 | 85 | 85 | 86 | 83 | 75 |
| 71-6-1.5 | 47 | 65 | 74 | 77 | 77 | 72 | 65 | 56 |
| 80-4-3 | 55 | 71 | 84 | 91 | 91 | 88 | 82 | 74 |
| 80-4-4 | 54 | 70 | 83 | 90 | 90 | 87 | 81 | 73 |
| 80-4-5.5 | 53 | 69 | 82 | 89 | 89 | 86 | 80 | 72 |
| 80-4-7.5 | 53 | 69 | 82 | 89 | 89 | 86 | 80 | 72 |
| 80-6-1.5 | 53 | 68 | 75 | 78 | 79 | 76 | 70 | 62 |
| 80-6-2 | 59 | 69 | 75 | 79 | 80 | 78 | 73 | 65 |
| 90-4-7.5 | 59 | 75 | 86 | 92 | 93 | 91 | 86 | 78 |
| 90-4-10 | 58 | 74 | 85 | 91 | 92 | 90 | 85 | 77 |
| 90-6-3 | 52 | 67 | 78 | 82 | 82 | 78 | 71 | 63 |
| 90-6-4 | 60 | 70 | 80 | 85 | 85 | 82 | 76 | 68 |
| 100-4-10 | 64 | 80 | 87 | 94 | 95 | 93 | 89 | 81 |
| 100-4-15 | 71 | 83 | 87 | 93 | 94 | 94 | 91 | 83 |
| 100-4-20 | 72 | 84 | 88 | 94 | 95 | 95 | 92 | 84 |
| 100-6-5.5 | 57 | 72 | 82 | 85 | 86 | 83 | 75 | 67 |



Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Dimensions mm



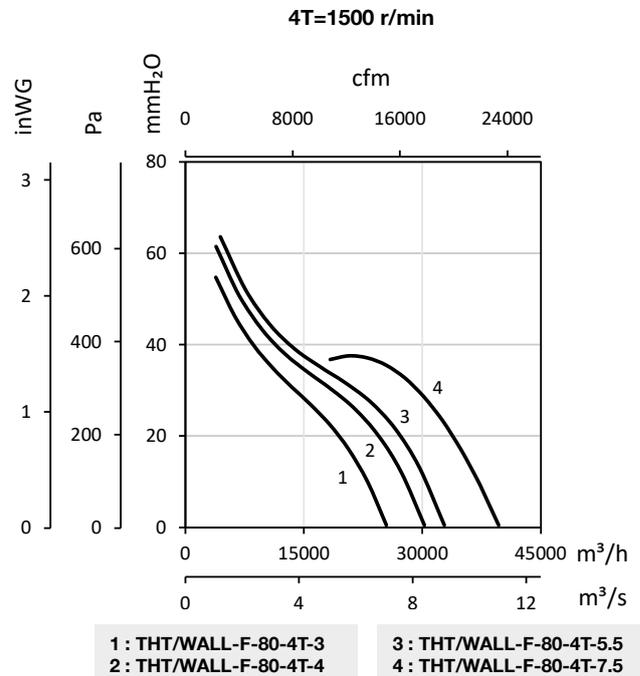
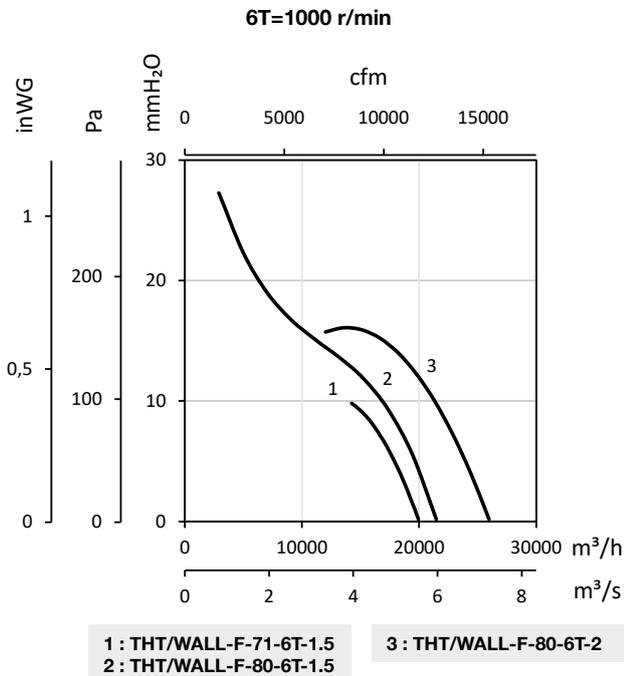
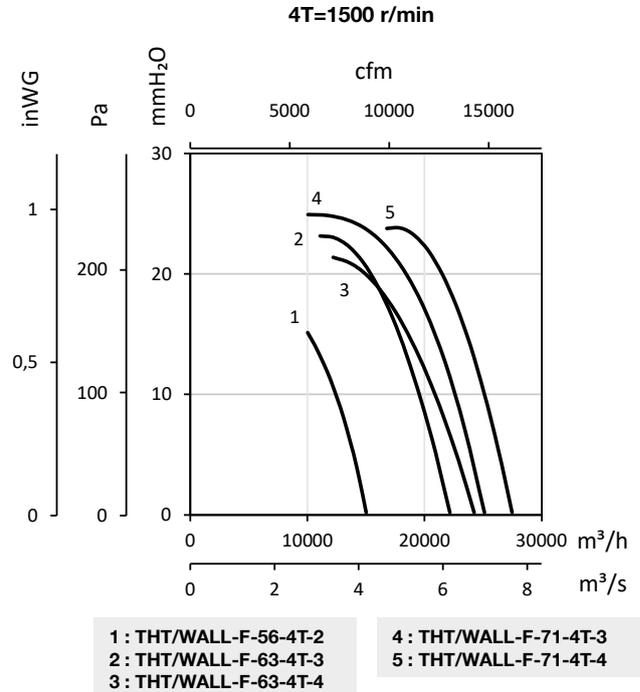
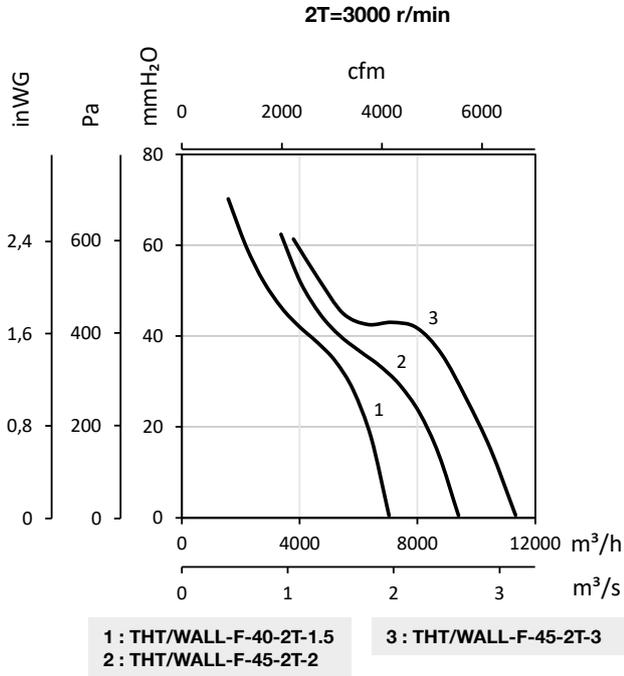
| | A | B | C | D | E | FA | FB | G | J1 | J2 | K1 | K2 |
|----------------|------|------|------|------|----|-----|-----|-----|------|-----|------|-----|
| THT/WALL-F-40 | 640 | 590 | 650 | 600 | 82 | 460 | 460 | 375 | 740 | 200 | 740 | 200 |
| THT/WALL-F-45 | 640 | 590 | 650 | 600 | 82 | 460 | 460 | 400 | 740 | 200 | 740 | 200 |
| THT/WALL-F-56 | 690 | 690 | 700 | 700 | 82 | 551 | 551 | 415 | 830 | 220 | 830 | 220 |
| THT/WALL-F-63 | 990 | 990 | 1000 | 1000 | 82 | 875 | 875 | 475 | 1090 | 300 | 1090 | 300 |
| THT/WALL-F-71 | 990 | 990 | 1000 | 1000 | 82 | 875 | 875 | 500 | 1090 | 300 | 1090 | 300 |
| THT/WALL-F-80 | 990 | 990 | 1000 | 1000 | 82 | 875 | 875 | 500 | 1090 | 300 | 1090 | 300 |
| THT/WALL-F-90 | 1190 | 1190 | 1200 | 1200 | 82 | 922 | 922 | 525 | 1310 | 250 | 1310 | 250 |
| THT/WALL-F-100 | 1190 | 1190 | 1200 | 1200 | 82 | 922 | 922 | 550 | 1310 | 250 | 1310 | 250 |

(C x D) Nominal size of the wall opening.
 FA is the opening when the hatch is upper opening.
 FB is the opening when the hatch is lower opening.

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

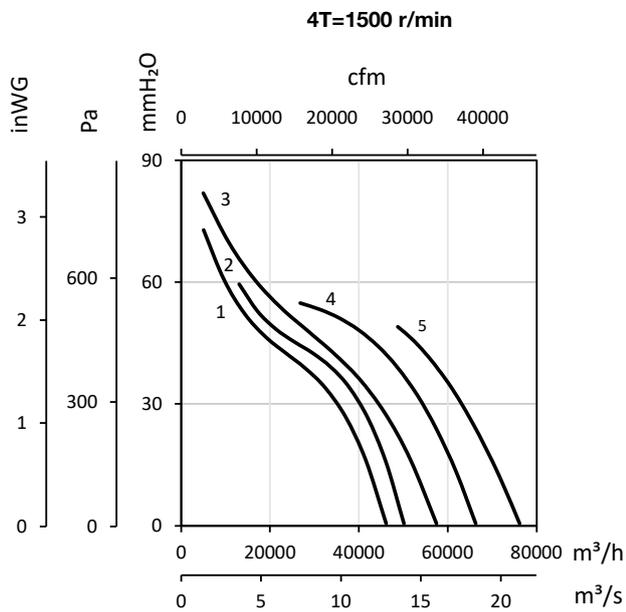
Pe= Static pressure in mm H₂O, Pa and inWG



Characteristic curves

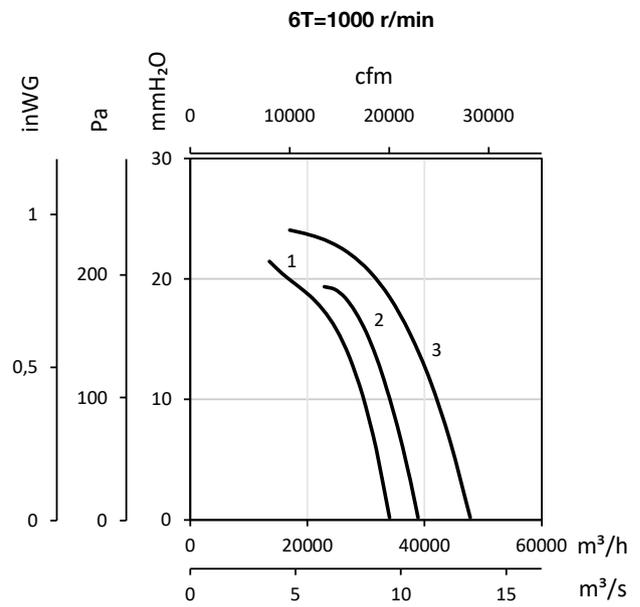
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg



1 : THT/WALL-F-90-4T-7.5
2 : THT/WALL-F-90-4T-10
3 : THT/WALL-F-100-4T-10

4 : THT/WALL-F-100-4T-15
5 : THT/WALL-F-100-4T-20



1 : THT/WALL-F-90-6T-3
2 : THT/WALL-F-90-6T-4

3 : THT/WALL-F-100-6T-5.5

Accessories



INT



IAT



CABLE BOX



VSD3/A-RFT
- VSD1/A-RFM



AET



RI