

Axial roof fans with flat base



Axial roof fans with plastic fibreglass-reinforced impeller, with flat base for roof mounting.



Fan:

- Galvanised sheet steel base plate
- Impellers in polyamide 6 reinforced with fibreglass, except for 4-pole 100 models in aluminium.
- Bird guard
- Sheet steel rain deflector hood with anticorrosive protection, except models 80, 90, 100 which come in polyester
- Airflow direction from motor to impeller

Motor:

- IE2 efficiency motors for capacities equal to or over 0.75kW and below 7.5kW, except single-phase, 2 speed and 8 pole motors.
- IE3 efficiency motors for capacities equal to or over 7.5kW, except single-phase, 2 speed and 8 pole motors.
- Class F motors, with ball bearings and IP55 protection, except single-phase versions from size 45 to size 63, IP54 protection.
- Single-phase 220-240V-50Hz. and three-phase 220-240V/380-415V-50Hz. (up to 4kW.) and 400/690V.-50Hz. (power over 4kW.)
- Max. air temperature to transport: -25°C + 60°C

Finish:

- Anticorrosive finish in polyester resin polymerised at 190°C, after degreasing with phosphate-free nanotechnology treatment.

On request:

- IE2 and IE3 efficiency motors for any power.
- Possibility of supply as IMPULSION FANS
- AL version cast aluminium impellers.
- Special windings for different voltages
- ATEX certification, Category 2



Order code



HT
Axial roof fans with flat base

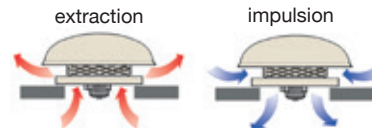
25
Impeller diameter in cm.

4T
Number of motor poles
2=2900 r/min. 50 Hz
4=1400 r/min. 50 Hz
6=750 r/min. 50 Hz

I
M=Single-phase
T=Three-phase

A
I: Extraction fans
A: Impulsion fans

BS: High base plate
BSS: High base plate with silencer.



Technical characteristics

| Model | Speed (r/min) | Maximum admissible current (A) | | | Installed capacity (kW) | Maximum airflow (m³/h) | Sound pressure level dB(A) | | Approx. weight (Kg) |
|----------|---------------|--------------------------------|------|------|-------------------------|------------------------|----------------------------|--------|---------------------|
| | | 230V | 400V | 690V | | | Inlet | Outlet | |
| HT-25-4T | 1320 | 0.65 | 0.38 | | 0.09 | 1080 | 41 | 40 | 12.5 |
| HT-25-4M | 1380 | 0.65 | | | 0.10 | 1080 | 41 | 40 | 12.5 |
| HT-31-4T | 1320 | 0.65 | 0.38 | | 0.09 | 1800 | 47 | 46 | 13.3 |
| HT-31-4M | 1370 | 0.83 | | | 0.09 | 1800 | 47 | 46 | 13.5 |
| HT-35-4T | 1320 | 0.65 | 0.38 | | 0.09 | 2600 | 48 | 47 | 17.5 |
| HT-35-4M | 1370 | 0.83 | | | 0.09 | 2600 | 48 | 47 | 17.5 |
| HT-40-4T | 1350 | 1.66 | 0.96 | | 0.25 | 4600 | 51 | 50 | 21.0 |
| HT-40-4M | 1370 | 2.00 | | | 0.25 | 4600 | 51 | 50 | 21.0 |
| HT-45-4T | 1370 | 2.02 | 1.17 | | 0.37 | 6500 | 55 | 53 | 29.0 |
| HT-45-4M | 1400 | 2.76 | | | 0.37 | 6500 | 55 | 54 | 30.5 |
| HT-50-4T | 1380 | 2.92 | 1.69 | | 0.55 | 8500 | 59 | 57 | 36.0 |
| HT-50-4M | 1350 | 4.40 | | | 0.55 | 8500 | 59 | 57 | 39.0 |
| HT-56-4T | 1410 | 3.10 | 1.79 | | 0.75 | 9800 | 61 | 57 | 35.0 |
| HT-56-4M | 1410 | 5.05 | | | 0.75 | 9800 | 61 | 57 | 37.0 |
| HT-56-6T | 900 | 1.51 | 0.87 | | 0.25 | 6600 | 48 | 46 | 46.0 |
| HT-56-6M | 900 | 2.07 | | | 0.25 | 6600 | 48 | 46 | 46.0 |
| HT-63-4T | 1400 | 4.03 | 2.32 | | 1.10 | 14000 | 63 | 59 | 65.8 |
| HT-63-6T | 900 | 2.24 | 1.30 | | 0.37 | 9200 | 52 | 49 | 61.8 |
| HT-63-6M | 900 | 2.69 | | | 0.37 | 9200 | 52 | 49 | 61.8 |
| HT-71-4T | 1430 | 5.96 | 3.44 | | 1.50 | 18000 | 69 | 67 | 64.0 |
| HT-71-6T | 900 | 2.99 | 1.73 | | 0.55 | 12200 | 58 | 56 | 64.9 |

Technical characteristics

| Model | Speed (r/min) | Maximum admissible current (A) | | | Installed capacity (kW) | Maximum airflow (m ³ /h) | Sound pressure level dB(A) | | Approx. weight (Kg) |
|------------------|------------------|--------------------------------|-------|------|----------------------------|--|----------------------------|--------|------------------------|
| | | 230V | 400V | 690V | | | Inlet | Outlet | |
| HT-71-6M | 900 | 3.84 | | | 0.55 | 12200 | 58 | 56 | 64.9 |
| HT-80-4T | 1445 | 8.36 | 4.83 | | 2.20 | 26200 | 73 | 70 | 87.8 |
| HT-80-6T | 945 | 4.88 | 2.82 | | 1.10 | 18000 | 64 | 61 | 81.8 |
| HT-90-4T | 1445 | 10.96 | 6.33 | | 3.00 | 31500 | 77 | 74 | 94.0 |
| HT-90-6T | 955 | 6.42 | 3.71 | | 1.50 | 21200 | 68 | 65 | 91.0 |
| HT-100-4T-7.5 | 1440 | | 11.60 | 6.72 | 5.50 | 37000 | 80 | 77 | 114.0 |
| HT-100-4T-10 IE3 | 1465 | | 13.90 | 8.06 | 7.50 | 44000 | 84 | 81 | 141.0 |
| HT-100-6T-2 | 955 | 6.42 | 3.71 | | 1.50 | 25000 | 71 | 68 | 102.0 |
| HT-100-6T-3 | 955 | 9.30 | 5.30 | | 2.20 | 28200 | 75 | 72 | 106.0 |
| HT-100-8T-1.5 | 705 | 5.63 | 3.25 | | 1.10 | 19050 | 64 | 61 | 103.0 |
| HT-100-8T-2 | 705 | 7.10 | 4.10 | | 1.50 | 21100 | 66 | 63 | 114.0 |



Erp. BEP (best efficiency point) characteristics

| | | | |
|------------|-----------------------|---------------------------|--|
| MC | Measurement category | ηe[%] | Efficiency |
| EC | Efficiency category | N | Degree of efficiency |
| S | Static | [kW] | Electrical power |
| T | Total | [m³/h] | Airflow |
| VSD | Variable-speed drive | [mmH₂O] | Static or total pressure (According to EC) |
| SR | Specific relationship | [RPM] | Speed |

| Model | MC | EC | VSD | SR | ηe [%] | N | [kW] | [m ³ /h] | [mmH ₂ O] | [RPM] |
|------------------|----|----|-----|------|--------|------|-------|---------------------|----------------------|-------|
| HT-25-4T | - | - | - | - | - | - | 0.099 | 586 | 3.45 | 1358 |
| HT-25-4M | - | - | - | - | - | - | 0.102 | 566 | 3.59 | 1386 |
| HT-31-4T | - | - | - | - | - | - | 0.103 | 1013 | 4.06 | 1397 |
| HT-31-4M | - | - | - | - | - | - | 0.111 | 1004 | 4.09 | 1418 |
| HT-35-4T | - | - | - | - | - | - | 0.125 | 1857 | 6.94 | 1375 |
| HT-35-4M | A | S | NO | 1.00 | 28.0% | 40.0 | 0.126 | 1851 | 6.96 | 1422 |
| HT-40-4T | A | S | NO | 1.00 | 32.0% | 41.7 | 0.289 | 3401 | 10.00 | 1396 |
| HT-40-4M | A | S | NO | 1.00 | 31.0% | 40.6 | 0.299 | 3399 | 10.01 | 1405 |
| HT-45-4T | A | S | NO | 1.00 | 33.4% | 41.8 | 0.475 | 4228 | 13.80 | 1392 |
| HT-45-4M | A | S | NO | 1.00 | 32.3% | 40.5 | 0.494 | 4257 | 13.73 | 1417 |
| HT-50-4T | B | T | NO | 1.00 | 53.4% | 60.6 | 0.733 | 9635 | 14.91 | 1395 |
| HT-50-4M | B | T | NO | 1.00 | 51.3% | 58.4 | 0.763 | 9642 | 14.90 | 1411 |
| HT-56-4T | B | T | NO | 1.00 | 66.7% | 74.0 | 0.700 | 12713 | 13.47 | 1433 |
| HT-56-4M | B | T | NO | 1.00 | 56.7% | 63.6 | 0.824 | 12698 | 13.49 | 1445 |
| HT-56-6T | A | S | NO | 1.00 | 31.4% | 41.7 | 0.237 | 3564 | 7.69 | 919 |
| HT-63-4T | C | S | NO | 1.00 | 45.3% | 51.1 | 1.179 | 10593 | 18.50 | 1412 |
| HT-63-6T | C | S | NO | 1.00 | 32.7% | 41.1 | 0.474 | 6417 | 8.88 | 921 |
| HT-63-6M | C | S | NO | 1.00 | 32.2% | 40.6 | 0.482 | 6339 | 8.99 | 915 |
| HT-71-4T | C | S | NO | 1.00 | 50.1% | 55.3 | 1.508 | 13256 | 20.95 | 1442 |
| HT-71-6T | C | S | NO | 1.00 | 35.7% | 43.0 | 0.710 | 8036 | 11.60 | 913 |
| HT-71-6M | C | S | NO | 1.00 | 33.6% | 40.7 | 0.755 | 7945 | 11.73 | 908 |
| HT-80-4T | C | S | NO | 1.00 | 56.7% | 60.7 | 2.309 | 16178 | 29.73 | 1451 |
| HT-80-6T | C | S | NO | 1.00 | 46.7% | 52.1 | 1.380 | 15312 | 15.45 | 946 |
| HT-90-4T | C | S | NO | 1.00 | 58.1% | 61.1 | 3.362 | 20308 | 35.36 | 1447 |
| HT-90-6T | C | S | NO | 1.00 | 50.9% | 55.7 | 1.777 | 18106 | 18.37 | 957 |
| HT-100-4T-7.5 | C | S | NO | 1.00 | 51.0% | 52.4 | 5.965 | 27281 | 40.95 | 1443 |
| HT-100-4T-10 IE3 | C | S | NO | 1.00 | 48.4% | 49.1 | 7.832 | 36164 | 38.48 | 1467 |
| HT-100-6T-2 | C | S | NO | 1.00 | 47.5% | 52.5 | 1.619 | 19961 | 14.14 | 953 |
| HT-100-6T-3 | C | S | NO | 1.00 | 47.3% | 51.1 | 2.461 | 23849 | 17.92 | 959 |
| HT-100-8T-1.5 | C | S | NO | 1.00 | 47.6% | 52.9 | 1.452 | 19345 | 13.11 | 707 |
| HT-100-8T-2 | C | S | NO | 1.00 | 42.7% | 47.2 | 1.923 | 20901 | 14.42 | 706 |

Best efficiency point data of the internal fan

Acoustic features

The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at a distance of 6 m.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

Values taken at inlet with maximum airflow (Qmax)

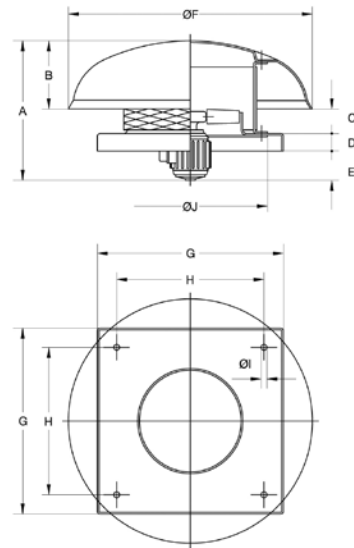
| Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|-----------|----|-----|-----|-----|------|------|------|------|
| 25 | 27 | 37 | 54 | 54 | 62 | 58 | 51 | 42 |
| 31 | 33 | 43 | 60 | 60 | 68 | 64 | 57 | 48 |
| 35 | 34 | 44 | 61 | 61 | 69 | 65 | 58 | 49 |
| 40 | 28 | 45 | 57 | 65 | 70 | 70 | 66 | 59 |
| 45 | 32 | 49 | 61 | 69 | 74 | 74 | 70 | 63 |
| 50 | 36 | 53 | 65 | 73 | 78 | 78 | 74 | 67 |
| 56-4 | 38 | 55 | 67 | 75 | 80 | 80 | 76 | 69 |
| 56-6 | 25 | 42 | 54 | 62 | 67 | 67 | 63 | 56 |
| 63-4 | 40 | 57 | 69 | 77 | 82 | 82 | 78 | 71 |
| 63-6 | 29 | 46 | 58 | 66 | 71 | 71 | 67 | 60 |
| 71-4 | 46 | 63 | 75 | 83 | 88 | 88 | 84 | 77 |
| 71-6 | 35 | 52 | 64 | 72 | 77 | 77 | 73 | 66 |
| 80-4 | 57 | 78 | 85 | 90 | 93 | 89 | 82 | 71 |
| 80-6 | 48 | 69 | 76 | 81 | 84 | 80 | 73 | 62 |
| 90-4 | 61 | 82 | 89 | 94 | 97 | 93 | 86 | 75 |
| 90-6 | 52 | 73 | 80 | 85 | 88 | 84 | 77 | 66 |
| 100-4-7.5 | 64 | 85 | 92 | 97 | 100 | 96 | 89 | 78 |
| 100-4-10 | 68 | 89 | 96 | 101 | 104 | 100 | 93 | 82 |
| 100-6-2 | 55 | 76 | 83 | 88 | 91 | 87 | 80 | 69 |
| 100-6-3 | 59 | 80 | 87 | 92 | 95 | 91 | 84 | 73 |
| 100-8-1.5 | 48 | 69 | 76 | 81 | 84 | 80 | 73 | 62 |
| 100-8-2 | 50 | 71 | 78 | 83 | 86 | 82 | 75 | 64 |

Values taken at outlet with maximum airflow (Qmax)

| Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|-----------|----|-----|-----|-----|------|------|------|------|
| 25 | 26 | 36 | 53 | 53 | 61 | 57 | 50 | 41 |
| 31 | 32 | 42 | 59 | 59 | 67 | 63 | 56 | 47 |
| 35 | 33 | 43 | 60 | 60 | 68 | 64 | 57 | 48 |
| 40 | 27 | 44 | 56 | 64 | 69 | 69 | 65 | 58 |
| 45 | 30 | 47 | 59 | 67 | 72 | 72 | 68 | 61 |
| 50 | 34 | 51 | 63 | 71 | 76 | 76 | 72 | 65 |
| 56-4 | 34 | 51 | 63 | 71 | 76 | 76 | 72 | 65 |
| 56-6 | 23 | 40 | 52 | 60 | 65 | 65 | 61 | 54 |
| 63-4 | 36 | 53 | 65 | 73 | 78 | 78 | 74 | 67 |
| 63-6 | 26 | 43 | 55 | 63 | 68 | 68 | 64 | 57 |
| 71-4 | 44 | 61 | 73 | 81 | 86 | 86 | 82 | 75 |
| 71-6 | 33 | 50 | 62 | 70 | 75 | 75 | 71 | 64 |
| 80-4 | 54 | 75 | 82 | 87 | 90 | 86 | 79 | 68 |
| 80-6 | 45 | 66 | 73 | 78 | 81 | 77 | 70 | 59 |
| 90-4 | 58 | 79 | 86 | 91 | 94 | 90 | 83 | 72 |
| 90-6 | 49 | 70 | 77 | 82 | 85 | 81 | 74 | 63 |
| 100-4-7.5 | 61 | 82 | 89 | 94 | 97 | 93 | 86 | 75 |
| 100-4-10 | 65 | 86 | 93 | 98 | 101 | 97 | 90 | 79 |
| 100-6-2 | 52 | 73 | 80 | 85 | 88 | 84 | 77 | 66 |
| 100-6-3 | 56 | 77 | 84 | 89 | 92 | 88 | 81 | 70 |
| 100-8-1.5 | 45 | 66 | 73 | 78 | 81 | 77 | 70 | 59 |
| 100-8-2 | 47 | 68 | 75 | 80 | 83 | 79 | 72 | 61 |

Dimensions in mm

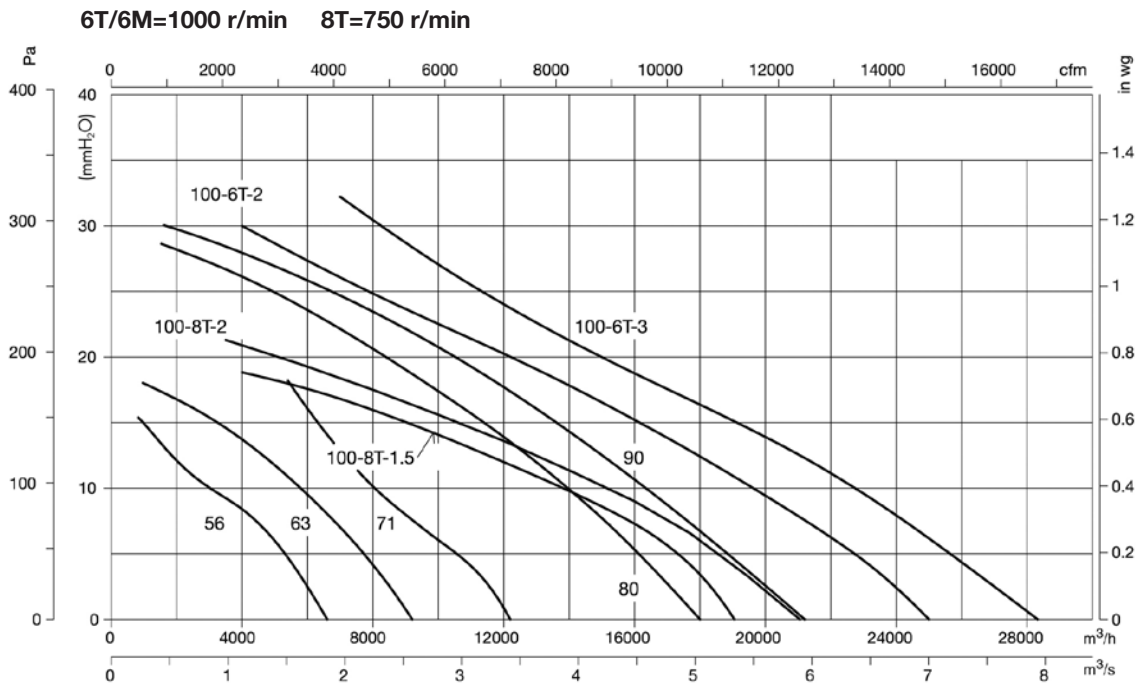
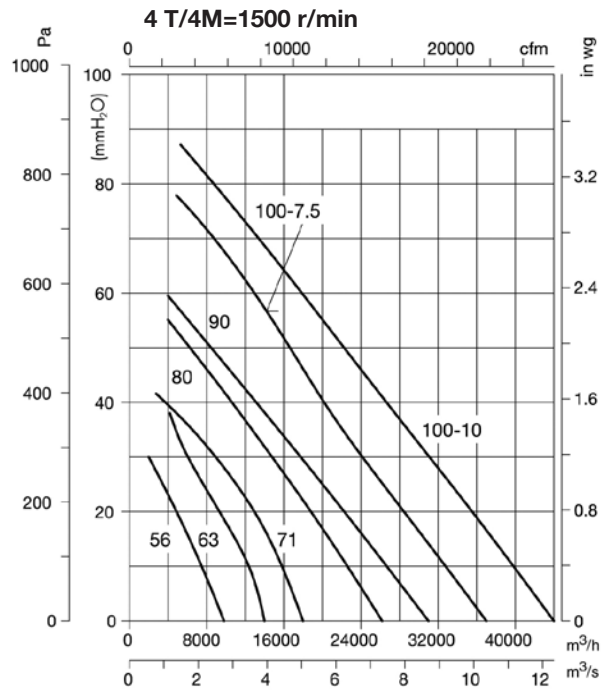
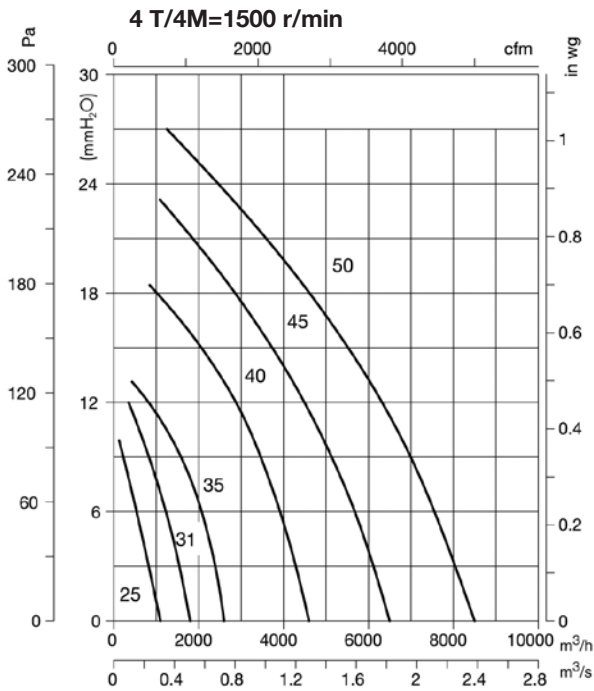
| Model | A | B | C | D | E | ØF | G | H | ØI | ØJ |
|---------------|-----|-----|-----|----|-----|------|------|------|----|------|
| HT-25 | 400 | 176 | 44 | 40 | 140 | 620 | 450 | 360 | 12 | 346 |
| HT-31 | 423 | 176 | 67 | 40 | 140 | 620 | 500 | 410 | 12 | 416 |
| HT-35 | 472 | 228 | 64 | 40 | 140 | 770 | 560 | 450 | 12 | 486 |
| HT-40 | 478 | 228 | 82 | 40 | 128 | 770 | 630 | 530 | 12 | 536 |
| HT-45-4T | 550 | 266 | 88 | 50 | 146 | 960 | 710 | 590 | 12 | 596 |
| HT-45-4M | 512 | 266 | 88 | 50 | 108 | 960 | 710 | 590 | 12 | 596 |
| HT-50-4T | 575 | 296 | 83 | 50 | 146 | 1090 | 800 | 680 | 12 | 676 |
| HT-50-4M | 558 | 296 | 83 | 50 | 129 | 1090 | 800 | 680 | 12 | 676 |
| HT-56-4T | 607 | 296 | 117 | 40 | 154 | 1090 | 900 | 750 | 14 | 758 |
| HT-56-4M | 590 | 296 | 117 | 40 | 137 | 1090 | 900 | 750 | 14 | 758 |
| HT-56-6 | 589 | 296 | 117 | 40 | 136 | 1090 | 900 | 750 | 14 | 758 |
| HT-63-4 | 714 | 357 | 136 | 40 | 182 | 1285 | 1000 | 850 | 14 | 735 |
| HT-63-6 | 667 | 357 | 136 | 40 | 135 | 1285 | 1000 | 850 | 14 | 735 |
| HT-71-4T | 740 | 357 | 166 | 40 | 178 | 1285 | 1000 | 850 | 14 | 815 |
| HT-71-6 | 689 | 357 | 166 | 40 | 178 | 1285 | 1000 | 850 | 14 | 815 |
| HT-80-4 | 840 | 357 | 244 | 50 | 189 | 1285 | 1150 | 1000 | 14 | 905 |
| HT-80-6 | 804 | 357 | 244 | 50 | 153 | 1285 | 1150 | 1000 | 14 | 905 |
| HT-90-4 | 892 | 440 | 213 | 50 | 189 | 1580 | 1150 | 1000 | 14 | 1020 |
| HT-90-6 | 896 | 440 | 213 | 50 | 193 | 1580 | 1150 | 1000 | 14 | 1020 |
| HT-100-4T | 997 | 440 | 284 | 50 | 223 | 1580 | 1250 | 1100 | 14 | 1120 |
| HT-100-6T-2 | 940 | 440 | 284 | 50 | 166 | 1580 | 1250 | 1100 | 14 | 1120 |
| HT-100-6T-3 | 957 | 440 | 284 | 50 | 183 | 1580 | 1250 | 1100 | 14 | 1120 |
| HT-100-8T-1.5 | 940 | 440 | 284 | 50 | 166 | 1580 | 1250 | 1100 | 14 | 1120 |
| HT-100-8T-2 | 957 | 440 | 284 | 50 | 183 | 1580 | 1250 | 1100 | 14 | 1120 |



Characteristic Curves

Q = Airflow in m³/h, m³/s and cfm.

Pe= Static pressure in mmH₂O, Pa and inwg.



Accessories

See accessories section.

