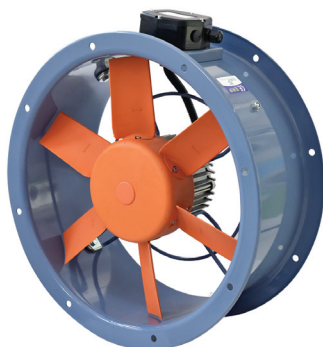


# XCF/65



## XCF/65: Long-cased axial fans, with IP-65 motor

Long-cased fans (XCF/65), with fibreglass-reinforced plastic impeller.

### Fan:

- Airflow direction from motor to impeller
- Impeller in polyamide reinforced with fibre glass
- Sheet steel tubular casing.
- Outside connecting box, IP-65 protection

### Motor:

- Class F motors with ball bearings, IP-65 protection
- Single-phase 220-240V.-50Hz. and three-phase 220-240/380-415V.-50Hz.
- Working temperature: -25°C +60°C, 4-6-8 poles motors and -25°C +45°C, 2 pole motors

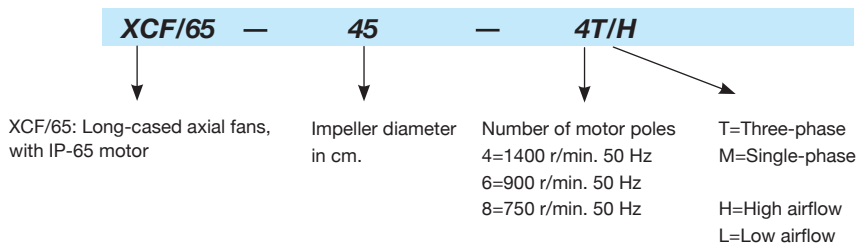
### Finish:

- Anticorrosive finish in polyester resin, polymerised at 190°C, after alkaline degreasing and phosphate-free pre-treatment.

### On request:

- Airflow direction from impeller to motor
- Special windings for different voltages

## Order code



## Technical characteristics

| Model               | Speed<br>(r/min) | Maximum admissible current (A) |          | Absorbed power at free airflow (W) | Maximum airflow (m³/h) | Sound pressure level dB(A) | Approx. weight (Kg) XCF/65 |
|---------------------|------------------|--------------------------------|----------|------------------------------------|------------------------|----------------------------|----------------------------|
|                     |                  | 220-240V                       | 380-415V |                                    |                        |                            |                            |
| XCF/65-31-2T/H 2640 | 1.54             | 0.89                           | 400      | 4000                               | 74                     | 7.0                        | 7.4                        |
| XCF/65-31-2M/H 2640 | 2.30             | -                              | 410      | 4000                               | 74                     | 7.0                        | 7.4                        |
| XCF/65-31-4T/H 1410 | 0.69             | 0.40                           | 115      | 2400                               | 55                     | 5.7                        | 6.2                        |
| XCF/65-31-4M/H 1410 | 0.75             | -                              | 130      | 2400                               | 55                     | 5.7                        | 6.2                        |
| XCF/65-35-2T/H 2790 | 2.16             | 1.25                           | 550      | 6020                               | 76                     | 8.8                        | 9.4                        |
| XCF/65-35-2M/H 2675 | 2.80             | -                              | 560      | 6020                               | 76                     | 8.8                        | 9.4                        |
| XCF/65-35-4T/H 1340 | 0.74             | 0.43                           | 155      | 3500                               | 58                     | 7.1                        | 7.6                        |
| XCF/65-35-4M/H 1340 | 0.98             | -                              | 160      | 3500                               | 58                     | 7.1                        | 7.6                        |
| XCF/65-40-4T/H 1420 | 2.10             | 1.20                           | 245      | 5200                               | 61                     | 10.6                       | 13.5                       |
| XCF/65-40-4M/H 1400 | 1.85             | -                              | 355      | 5200                               | 61                     | 10.6                       | 13.5                       |
| XCF/65-40-6T/H 960  | 1.12             | 0.65                           | 155      | 3500                               | 54                     | 10.2                       | 13.5                       |
| XCF/65-40-6M/H 960  | 1.06             | -                              | 185      | 3500                               | 54                     | 10.2                       | 13.5                       |



## Technical characteristics

| Model          |      | Speed<br>(r/min) | Maximum admissible<br>current (A) |          | Absorbed<br>power at free<br>airflow (W) | Maximum<br>airflow<br>(m³/h) | Sound<br>pressure level<br>dB(A) | Approx. weight<br>(Kg)<br>XCF/65 |
|----------------|------|------------------|-----------------------------------|----------|------------------------------------------|------------------------------|----------------------------------|----------------------------------|
|                |      |                  | 220-240V                          | 380-415V |                                          |                              |                                  |                                  |
| XCF/65-45-4T/H | 1400 | 2.11             | 1.22                              | 475      | 7300                                     | 66                           | 12.5                             | 15.5                             |
| XCF/65-45-4M/H | 1400 | 2.35             | -                                 | 490      | 7300                                     | 66                           | 12.5                             | 15.5                             |
| XCF/65-45-6T/H | 955  | 1.42             | 0.82                              | 215      | 4900                                     | 56                           | 11.4                             | 15.5                             |
| XCF/65-45-6M/H | 955  | 1.40             | -                                 | 225      | 4900                                     | 56                           | 11.4                             | 15.5                             |
| XCF/65-50-4T/H | 1420 | 3.10             | 1.80                              | 740      | 10150                                    | 69                           | 15.0                             | 18.0                             |
| XCF/65-50-4M/H | 1380 | 3.35             | -                                 | 710      | 10150                                    | 69                           | 15.0                             | 18.0                             |
| XCF/65-50-6T/H | 950  | 1.38             | 0.80                              | 205      | 6150                                     | 59                           | 13.2                             | 18.0                             |
| XCF/65-50-6M/H | 950  | 1.38             | -                                 | 215      | 6150                                     | 59                           | 13.2                             | 18.0                             |
| XCF/65-56-4T/H | 1350 | 3.63             | 2.10                              | 870      | 12800                                    | 72                           | 21.0                             | 28.0                             |
| XCF/65-56-4M/H | 1350 | 5.26             | -                                 | 895      | 12800                                    | 72                           | 21.0                             | 28.0                             |
| XCF/65-56-6T/H | 915  | 1.73             | 1.00                              | 325      | 8250                                     | 62                           | 17.0                             | 28.0                             |
| XCF/65-56-6M/H | 915  | 2.12             | -                                 | 450      | 8250                                     | 62                           | 17.0                             | 28.0                             |
| XCF/65-63-4T/H | 1415 | 6.92             | 4.00                              | 1400     | 18700                                    | 82                           | 25.8                             | 33.5                             |
| XCF/65-63-6T/H | 905  | 2.06             | 1.19                              | 405      | 12050                                    | 65                           | 20.2                             | 33.5                             |
| XCF/65-63-6M/H | 905  | 2.70             | -                                 | 540      | 12050                                    | 65                           | 20.2                             | 33.5                             |

## Erp. BEP (best efficiency point) characteristics

| Model          | MC | EC | VSD | SR   | ηe[%] | N    | (kW)  | (m³/h) | (mmH <sub>2</sub> O) | (RPM) |
|----------------|----|----|-----|------|-------|------|-------|--------|----------------------|-------|
| XCF/65-25-4T/H | -  | -  | -   | -    | -     | -    | 0.083 | 986    | 2.73                 | 1471  |
| XCF/65-25-4M/H | -  | -  | -   | -    | -     | -    | 0.096 | 990    | 2.72                 | 1466  |
| XCF/65-31-2T/H | A  | S  | NO  | 1.00 | 30.3% | 39.2 | 0.397 | 2782   | 15.89                | 2827  |
| XCF/65-31-2M/H | A  | S  | NO  | 1.00 | 28.9% | 37.6 | 0.417 | 2793   | 15.84                | 2854  |
| XCF/65-31-4T/H | -  | -  | -   | -    | -     | -    | 0.109 | 1304   | 5.05                 | 1449  |
| XCF/65-31-4M/H | -  | -  | -   | -    | -     | -    | 0.122 | 1290   | 5.10                 | 1461  |
| XCF/65-31-4T/L | -  | -  | -   | -    | -     | -    | 0.096 | 1141   | 4.37                 | 1460  |
| XCF/65-31-4M/L | -  | -  | -   | -    | -     | -    | 0.109 | 1161   | 4.30                 | 1452  |
| XCF/65-35-2T/H | A  | S  | NO  | 1.00 | 35.3% | 42.9 | 0.620 | 4356   | 18.46                | 2880  |
| XCF/65-35-2M/H | A  | S  | NO  | 1.00 | 34.6% | 42.2 | 0.632 | 4396   | 18.28                | 2851  |
| XCF/65-35-4T/H | A  | S  | NO  | 1.00 | 28.3% | 39.9 | 0.145 | 2167   | 6.95                 | 1418  |
| XCF/65-35-4M/H | A  | S  | NO  | 1.00 | 26.1% | 37.4 | 0.158 | 2191   | 6.89                 | 1430  |
| XCF/65-35-4T/L | -  | -  | -   | -    | -     | -    | 0.117 | 1874   | 4.95                 | 1443  |
| XCF/65-35-4M/L | -  | -  | -   | -    | -     | -    | 0.124 | 1919   | 4.97                 | 1451  |
| XCF/65-40-4T/H | A  | S  | NO  | 1.00 | 26.8% | 37.5 | 0.202 | 2135   | 9.28                 | 1470  |
| XCF/65-25-4T/H | -  | -  | -   | -    | -     | -    | 0.083 | 986    | 2.73                 | 1471  |
| XCF/65-25-4M/H | -  | -  | -   | -    | -     | -    | 0.096 | 990    | 2.72                 | 1466  |
| XCF/65-31-2T/H | A  | S  | NO  | 1.00 | 30.3% | 39.2 | 0.397 | 2782   | 15.89                | 2827  |
| XCF/65-31-2M/H | A  | S  | NO  | 1.00 | 28.9% | 37.6 | 0.417 | 2793   | 15.84                | 2854  |
| XCF/65-31-4T/H | -  | -  | -   | -    | -     | -    | 0.109 | 1304   | 5.05                 | 1449  |
| XCF/65-31-4M/H | -  | -  | -   | -    | -     | -    | 0.122 | 1290   | 5.10                 | 1461  |
| XCF/65-31-4T/L | -  | -  | -   | -    | -     | -    | 0.096 | 1141   | 4.37                 | 1460  |
| XCF/65-31-4M/L | -  | -  | -   | -    | -     | -    | 0.109 | 1161   | 4.30                 | 1452  |
| XCF/65-35-2T/H | A  | S  | NO  | 1.00 | 35.3% | 42.9 | 0.620 | 4356   | 18.46                | 2880  |
| XCF/65-35-2M/H | A  | S  | NO  | 1.00 | 34.6% | 42.2 | 0.632 | 4396   | 18.28                | 2851  |
| XCF/65-35-4T/H | A  | S  | NO  | 1.00 | 28.3% | 39.9 | 0.145 | 2167   | 6.95                 | 1418  |
| XCF/65-35-4M/H | A  | S  | NO  | 1.00 | 26.1% | 37.4 | 0.158 | 2191   | 6.89                 | 1430  |
| XCF/65-35-4T/L | -  | -  | -   | -    | -     | -    | 0.117 | 1874   | 4.95                 | 1443  |
| XCF/65-35-4M/L | -  | -  | -   | -    | -     | -    | 0.124 | 1919   | 4.97                 | 1451  |
| XCF/65-40-4T/H | A  | S  | NO  | 1.00 | 26.8% | 37.5 | 0.202 | 2135   | 9.28                 | 1470  |
| XCF/65-40-4T/L | A  | S  | NO  | 1.00 | 26.3% | 37.5 | 0.172 | 2248   | 7.41                 | 1476  |
| XCF/65-45-4T/H | A  | S  | NO  | 1.00 | 33.1% | 41.8 | 0.418 | 4235   | 11.98                | 1447  |
| XCF/65-45-4M/H | A  | S  | NO  | 1.00 | 29.3% | 37.6 | 0.480 | 4541   | 11.37                | 1450  |
| XCF/65-45-4T/L | A  | S  | NO  | 1.00 | 33.0% | 42.7 | 0.292 | 3719   | 9.53                 | 1467  |

## Erp. BEP (best efficiency point) characteristics

| Model          | MC | EC | VSD | SR   | $\eta_e$ [%] | N    | (kW)  | (m³/h) | (mmH₂O) | (RPM) |
|----------------|----|----|-----|------|--------------|------|-------|--------|---------|-------|
| XCF/65-45-4M/L | A  | S  | NO  | 1.00 | 30.9%        | 40.4 | 0.314 | 3805   | 9.36    | 1439  |
| XCF/65-50-4T/H | A  | S  | NO  | 1.00 | 31.1%        | 38.7 | 0.626 | 5994   | 11.92   | 1458  |
| XCF/65-50-4M/H | A  | S  | NO  | 1.00 | 30.1%        | 37.6 | 0.645 | 5967   | 11.96   | 1446  |
| XCF/65-50-4T/L | A  | S  | NO  | 1.00 | 32.9%        | 41.8 | 0.387 | 4894   | 9.54    | 1446  |
| XCF/65-50-4M/L | A  | S  | NO  | 1.00 | 29.0%        | 37.6 | 0.438 | 4853   | 9.61    | 1434  |
| XCF/65-50-6T/H | A  | S  | NO  | 1.00 | 28.6%        | 39.5 | 0.187 | 3484   | 5.64    | 977   |
| XCF/65-50-6M/H | A  | S  | NO  | 1.00 | 26.8%        | 37.5 | 0.201 | 3601   | 5.50    | 979   |
| XCF/65-56-4T/H | A  | S  | NO  | 1.00 | 31.3%        | 38.3 | 0.798 | 7546   | 12.16   | 1432  |
| XCF/65-56-4M/H | A  | S  | NO  | 1.00 | 30.8%        | 37.7 | 0.817 | 7780   | 11.88   | 1442  |
| XCF/65-56-4T/L | A  | S  | NO  | 1.00 | 30.3%        | 37.7 | 0.697 | 7344   | 10.57   | 1448  |
| XCF/65-56-4M/L | A  | S  | NO  | 1.00 | 29.0%        | 36.2 | 0.730 | 7358   | 10.55   | 1432  |
| XCF/65-56-6T/H | A  | S  | NO  | 1.00 | 27.7%        | 37.5 | 0.283 | 4469   | 6.46    | 964   |
| XCF/65-63-4T/H | A  | S  | NO  | 1.00 | 32.0%        | 37.7 | 1.253 | 10152  | 14.52   | 1462  |
| XCF/65-63-4T/L | A  | S  | NO  | 1.00 | 36.0%        | 41.9 | 1.170 | 10263  | 15.10   | 1432  |
| XCF/65-63-4M/L | A  | S  | NO  | 1.00 | 34.8%        | 40.8 | 1.138 | 10512  | 13.85   | 1445  |
| XCF/65-63-6T/H | A  | S  | NO  | 1.00 | 28.5%        | 37.6 | 0.373 | 6577   | 5.95    | 957   |
| XCF/65-63-6T/L | A  | S  | NO  | 1.00 | 29.7%        | 39.3 | 0.300 | 5326   | 6.13    | 973   |
| XCF/65-63-6M/L | A  | S  | NO  | 1.00 | 28.4%        | 37.9 | 0.314 | 5389   | 6.07    | 969   |

## Acoustic features

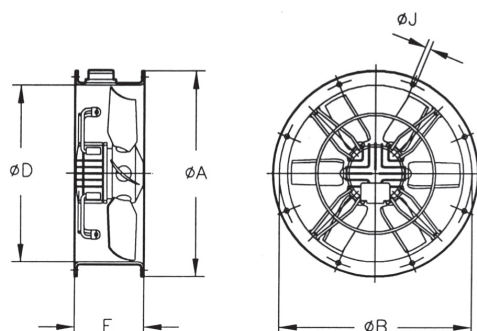
The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

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

| Model         | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Model         | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---------------|----|-----|-----|-----|------|------|------|------|---------------|----|-----|-----|-----|------|------|------|------|
| XCF/65-25-2/H | 39 | 52  | 64  | 68  | 70   | 70   | 66   | 58   | XCF/65-45-6/H | 33 | 47  | 59  | 62  | 64   | 65   | 61   | 52   |
| XCF/65-25-4/H | 27 | 40  | 52  | 56  | 58   | 58   | 54   | 46   | XCF/65-50-4/H | 46 | 60  | 72  | 75  | 77   | 78   | 74   | 65   |
| XCF/65-31-2/H | 49 | 62  | 74  | 78  | 80   | 80   | 76   | 68   | XCF/65-50-4/L | 44 | 58  | 70  | 73  | 75   | 76   | 72   | 63   |
| XCF/65-31-4/H | 30 | 43  | 55  | 59  | 61   | 61   | 57   | 49   | XCF/65-50-6/H | 36 | 50  | 62  | 65  | 67   | 68   | 64   | 55   |
| XCF/65-31-4/L | 29 | 42  | 54  | 58  | 60   | 60   | 56   | 48   | XCF/65-56-4/H | 49 | 63  | 75  | 78  | 80   | 81   | 77   | 68   |
| XCF/65-35-2/H | 51 | 64  | 76  | 80  | 82   | 82   | 78   | 70   | XCF/65-56-4/L | 47 | 61  | 73  | 76  | 78   | 79   | 75   | 66   |
| XCF/65-35-4/H | 33 | 46  | 58  | 62  | 64   | 64   | 60   | 52   | XCF/65-56-6/H | 39 | 53  | 65  | 68  | 70   | 71   | 67   | 58   |
| XCF/65-35-4/L | 31 | 44  | 56  | 60  | 62   | 62   | 58   | 50   | XCF/65-63-4/H | 61 | 75  | 87  | 90  | 92   | 92   | 89   | 80   |
| XCF/65-40-4/H | 36 | 49  | 61  | 65  | 67   | 67   | 63   | 55   | XCF/65-63-4/L | 54 | 68  | 80  | 83  | 85   | 85   | 82   | 73   |
| XCF/65-40-4/L | 35 | 48  | 60  | 64  | 66   | 66   | 62   | 54   | XCF/65-63-6/H | 44 | 58  | 70  | 73  | 75   | 75   | 72   | 63   |
| XCF/65-40-6/H | 29 | 42  | 54  | 58  | 60   | 60   | 56   | 48   | XCF/65-63-6/L | 42 | 56  | 68  | 71  | 73   | 73   | 70   | 61   |
| XCF/65-45-4/H | 43 | 57  | 69  | 72  | 74   | 75   | 71   | 62   | XCF/65-63-8/H | 36 | 50  | 62  | 65  | 67   | 67   | 64   | 55   |
| XCF/65-45-4/L | 41 | 55  | 67  | 70  | 72   | 73   | 69   | 60   |               |    |     |     |     |      |      |      |      |

## Dimensions in mm

### XCF/65

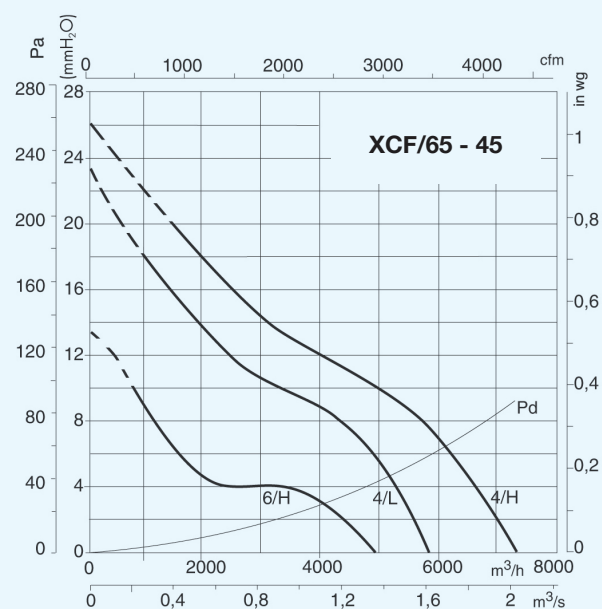
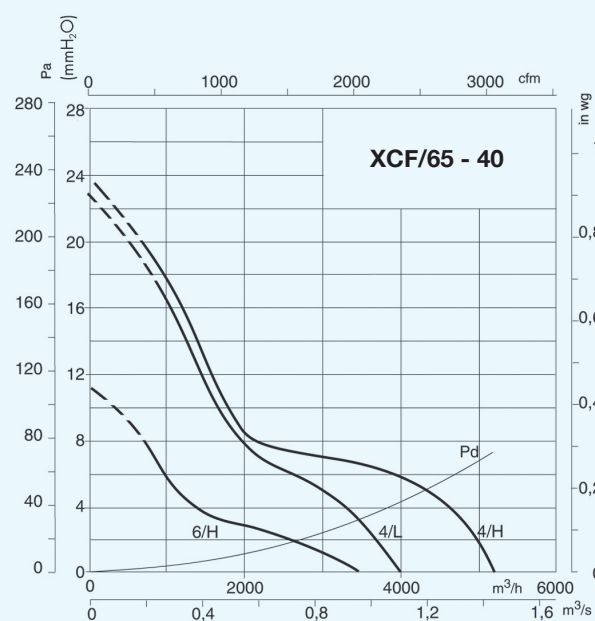
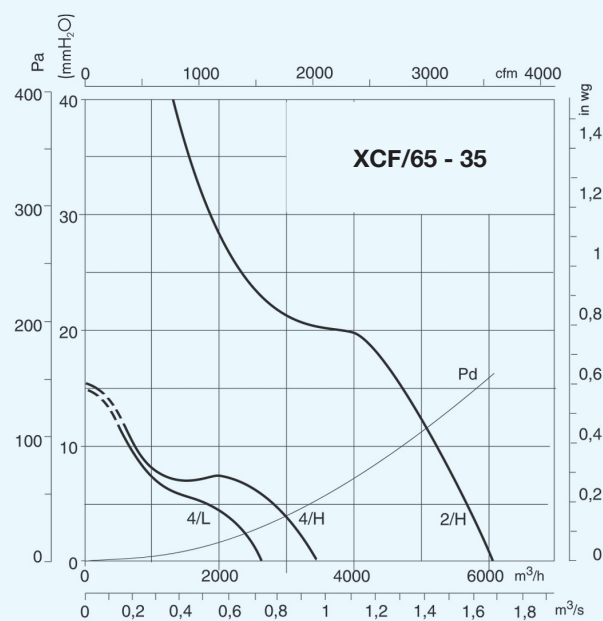
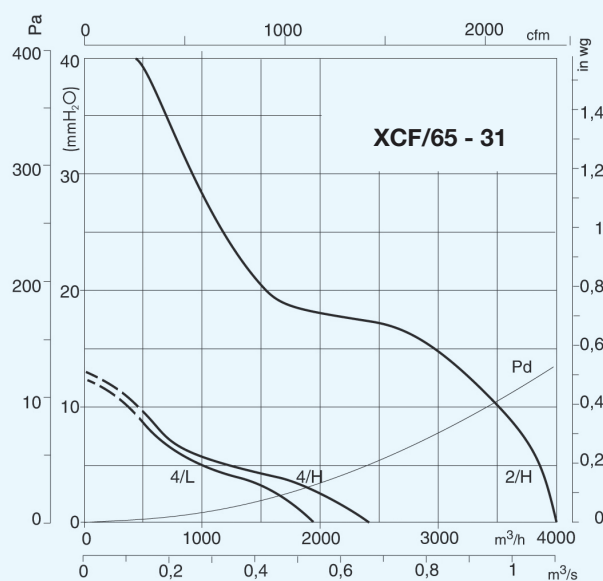


| Model     | $\phi A$ | $\phi B$ | $\phi D$ | E   | $\phi J$ | Drills No. |
|-----------|----------|----------|----------|-----|----------|------------|
| XCF/65-31 | 385      | 355      | 308      | 200 | 10       | 8          |
| XCF/65-35 | 425      | 395      | 360      | 220 | 10       | 8          |
| XCF/65-40 | 490      | 450      | 410      | 220 | 12       | 8          |
| XCF/65-45 | 540      | 500      | 460      | 220 | 12       | 8          |
| XCF/65-50 | 600      | 560      | 514      | 230 | 12       | 12         |
| XCF/65-56 | 660      | 620      | 560      | 260 | 12       | 12         |
| XCF/65-63 | 730      | 690      | 635      | 350 | 12       | 12         |

## Characteristic curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg.



## Characteristic curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg.

