

## HMF F400



LONG CASE AXIAL FAN 400°C/2H

### MANUFACTURING FEATURES:

- Long case axial fan with reinforced body.
- Modular motor-impeller assembly. Cast aluminium impeller with variable pitch angle. Polyester powder finishing coat.
- Housing with motor access door for easy connection.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class H insulation certified 400°C/2h. Manufactured with standard voltages: 400V(Y) 50Hz in three phase motors up to 3kW and 400V 50Hz for higher powers and 2 speed motors. IE3 efficiency motor from 0,75kW up to 45kW in single speed

### APPLICATIONS:

Designed for inline installation, they are suitable for:

- Smoke emergency exhaust with motor inside the hazardous area.
- Maximum working temperature: 60°C.

### UNDER REQUEST:

- Supply impeller (air direction from impeller to motor).
- 100% reversible impeller.

Official homologation by the European laboratory APPLUS according to EN 12101-3:2015  
Certification Nr: 0370-CPR-0912

## Accessories



**AC**



**AVS**



**BA-400**



**BAD**



**INT**



**INT 400**



**JE 45**



**KIT TE**



**KIT TM**



**PO**



**RP**



**SFC**



**SIL-C /  
SIL-CN**

## Technical data

### Three-phase motor / 2 poles

| Code | Model                  | Angle     | Min.<br>Rated<br>power<br>kW | Max.<br>Rated<br>power<br>kW | Max.<br>Airflow<br>m³/h | Sound<br>db (A)** | Weight<br>kg | Connect.<br>diagram |
|------|------------------------|-----------|------------------------------|------------------------------|-------------------------|-------------------|--------------|---------------------|
|      | HMF 45 T2 (A8:6) F400  | 20° - 45° | 1,10                         | 2,20                         | 13.510                  | 64                | 19,10        | 1                   |
|      | HMF 45 T2 (A8:9) F400  | 20° - 45° | 1,50                         | 2,20                         | 14.210                  | 65                | 19,70        | 1                   |
|      | HMF 45 T2 (A8:12) F400 | 20° - 45° | 1,50                         | 3,00                         | 14.810                  | 64                | 20,20        | 1                   |
|      | HMF 50 T2 (A8:6) F400  | 20° - 45° | 1,50                         | 4,00                         | 19.410                  | 67                | 24,80        | 1                   |
|      | HMF 50 T2 (A8:9) F400  | 20° - 45° | 2,20                         | 4,00                         | 20.510                  | 68                | 25,40        | 1                   |
|      | HMF 50 T2 (A8:12) F400 | 20° - 45° | 2,20                         | 4,00                         | 21.410                  | 66                | 26           | 1                   |
|      | HMF 56 T2 (A8:6) F400  | 20° - 45° | 2,20                         | 7,50                         | 25.910                  | 70                | 29,80        | 1                   |
|      | HMF 56 T2 (A8:9) F400  | 20° - 45° | 2,20                         | 7,50                         | 27.410                  | 70                | 30,50        | 1                   |
|      | HMF 56 T2 (A8:12) F400 | 20° - 45° | 3,00                         | 7,50                         | 28.510                  | 70                | 31,20        | 1                   |

### Three-phase motor / 4 poles

| Code | Model                  | Angle     | Min.<br>Rated<br>power<br>kW | Max.<br>Rated<br>power<br>kW | Max.<br>Airflow<br>m³/h | Sound<br>db (A)** | Weight<br>kg | Connect.<br>diagram |
|------|------------------------|-----------|------------------------------|------------------------------|-------------------------|-------------------|--------------|---------------------|
|      | HMF 45 T4 (A5:6) F400  | 20° - 45° | 0,75                         | 0,75                         | 6.170                   | 51                | 19           | 1                   |
|      | HMF 50 T4 (A5:6) F400  | 20° - 45° | 0,75                         | 0,75                         | 9.180                   | 55                | 26           | 1                   |
|      | HMF 56 T4 (A5:6) F400  | 20° - 45° | 0,75                         | 1,50                         | 14.480                  | 70                | 33           | 1                   |
|      | HMF 63 T4 (A5:6) F400  | 20° - 45° | 0,75                         | 2,20                         | 20.110                  | 74                | 37           | 1                   |
|      | HMF 71 T4 (A5:6) F400  | 20° - 45° | 0,75                         | 3,00                         | 27.220                  | 79                | 43           | 1                   |
|      | HMF 80 T4 (A5:6) F400  | 20° - 45° | 2,20                         | 4,00                         | 37.370                  | 76                | 52           | 1                   |
|      | HMF 90 T4 (A3:4) F400  | 20° - 42° | 3,00                         | 15,00                        | 48.110                  | 67                | 111          | 1                   |
|      | HMF 90 T4 (A3:8) F400  | 20° - 42° | 3,00                         | 15,00                        | 54.810                  | 72                | 116          | 1                   |
|      | HMF 100 T4 (A3:4) F400 | 20° - 42° | 5,50                         | 22,00                        | 67.210                  | 72                | 138          | 1                   |
|      | HMF 100 T4 (A3:8) F400 | 20° - 42° | 5,50                         | 22,00                        | 77.810                  | 81                | 143          | 1                   |
|      | HMF 112 T4 (A3:4) F400 | 20° - 42° | 7,50                         | 37,00                        | 92.110                  | 76                | 175          | 1                   |
|      | HMF 112 T4 (A3:8) F400 | 20° - 42° | 7,50                         | 37,00                        | 104.010                 | 83                | 181          | 1                   |
|      | HMF 125 T4 (A3:4) F400 | 20° - 42° | 11,00                        | 45,00                        | 124.010                 | 83                | 194          | 1                   |
|      | HMF 125 T4 (A3:8) F400 | 20° - 42° | 11,00                        | 45,00                        | 141.010                 | 89                | 201          | 1                   |

### Three-phase motor / 6 poles

| Code | Model                  | Angle     | Min. Rated power kW | Max. Rated power kW | Max. Airflow m³/h | Sound db (A)** | Weight kg | Connect. diagram |
|------|------------------------|-----------|---------------------|---------------------|-------------------|----------------|-----------|------------------|
|      | HMF 45 T6 (A5:6) F400  | 25° - 45° | 0,75                | 0,75                | 4.060             | 42             | 19        | 1                |
|      | HMF 50 T6 (A5:6) F400  | 25° - 45° | 0,75                | 0,75                | 5.950             | 46             | 26        | 1                |
|      | HMF 56 T6 (A5:6) F400  | 20° - 45° | 0,75                | 0,75                | 9.660             | 67             | 33        | 1                |
|      | HMF 63 T6 (A5:6) F400  | 20° - 45° | 0,75                | 0,75                | 13.410            | 71             | 37        | 1                |
|      | HMF 71 T6 (A5:6) F400  | 20° - 45° | 0,75                | 0,75                | 18.150            | 76             | 43        | 1                |
|      | HMF 80 T6 (A5:6) F400  | 20° - 45° | 0,75                | 2,20                | 24.910            | 72             | 52        | 1                |
|      | HMF 90 T6 (A3:4) F400  | 20° - 42° | 1,50                | 5,50                | 31.210            | 57             | 111       | 1                |
|      | HMF 90 T6 (A3:8) F400  | 20° - 42° | 1,50                | 5,50                | 35.510            | 62             | 116       | 1                |
|      | HMF 100 T6 (A3:4) F400 | 20° - 42° | 3,00                | 7,50                | 43.610            | 63             | 138       | 1                |
|      | HMF 100 T6 (A3:8) F400 | 20° - 42° | 3,00                | 7,50                | 50.410            | 71             | 143       | 1                |
|      | HMF 112 T6 (A3:4) F400 | 20° - 42° | 3,00                | 11,00               | 59.710            | 66             | 175       | 1                |
|      | HMF 112 T6 (A3:8) F400 | 20° - 42° | 3,00                | 11,00               | 67.610            | 73             | 181       | 1                |
|      | HMF 125 T6 (A3:4) F400 | 20° - 42° | 3,00                | 15,00               | 80.610            | 73             | 194       | 1                |
|      | HMF 125 T6 (A3:8) F400 | 20° - 42° | 3,00                | 15,00               | 91.410            | 80             | 201       | 1                |

## 2 speed motor / 2/4 poles

| Code | Model                     | Angle     | Min. Rated power kW | Max. Rated power kW | Max. Airflow w m³/h | Sound db (A)** | Weight kg | Connect. diagram |
|------|---------------------------|-----------|---------------------|---------------------|---------------------|----------------|-----------|------------------|
|      | HMF 45 T2/T4 (A8:6) F400  | 20° - 45° | 1,10                | 3,10                | 13.510              | 64             | 19,10     | 2                |
|      | HMF 45 T2/T4 (A8:9) F400  | 20° - 45° | 1,10                | 3,10                | 14.210              | 65             | 19,70     | 2                |
|      | HMF 45 T2/T4 (A8:12) F400 | 20° - 45° | 1,10                | 3,10                | 14.810              | 64             | 20,20     | 2                |
|      | HMF 50 T2/T4 (A8:6) F400  | 20° - 45° | 1,50                | 4,40                | 19.410              | 67             | 24,80     | 2                |
|      | HMF 50 T2/T4 (A8:9) F400  | 20° - 45° | 1,50                | 4,40                | 20.510              | 68             | 25,40     | 2                |
|      | HMF 50 T2/T4 (A8:12) F400 | 20° - 45° | 1,50                | 4,40                | 21.410              | 66             | 26        | 2                |
|      | HMF 56 T2/T4 (A8:6) F400  | 20° - 45° | 2,20                | 8,00                | 25.910              | 70             | 29,80     | 2                |
|      | HMF 56 T2/T4 (A8:9) F400  | 20° - 45° | 2,20                | 8,00                | 27.410              | 70             | 30,50     | 2                |
|      | HMF 56 T2/T4 (A8:12) F400 | 20° - 45° | 2,20                | 8,00                | 28.510              | 70             | 31,20     | 2                |

## 2 speed motor / 4/6 poles

| Code | Model                    | Angle     | Min. Rated power kW | Max. Rated power kW | Max. Airflow w m³/h | Sound db (A)** | Weight kg | Connect. diagram |
|------|--------------------------|-----------|---------------------|---------------------|---------------------|----------------|-----------|------------------|
|      | HMF 56 T4/T6 (A5:6) F400 | 20° - 45° | 0,55                | 2,20                | 14.480              | 70             | 33        | 3                |
|      | HMF 63 T4/T6 (A5:6) F400 | 20° - 45° | 0,55                | 2,20                | 20.110              | 74             | 37        | 3                |
|      | HMF 71 T4/T6 (A5:6) F400 | 20° - 45° | 0,55                | 3,00                | 27.220              | 79             | 43        | 3                |

| Code | Model                     | Angle     | Min. Rated power kW | Max. Rated power kW | Max. Airflow m³/h | Sound db (A)** | Weight kg | Connect. diagram |
|------|---------------------------|-----------|---------------------|---------------------|-------------------|----------------|-----------|------------------|
|      | HMF 80 T4/T6 (A5:6) F400  | 20° - 45° | 1,10                | 4,00                | 37.370            | 76             | 52        | 3                |
|      | HMF 90 T4/T6 (A3:4) F400  | 20° - 42° | 2,20                | 14,00               | 48.110            | 67             | 111       | 3                |
|      | HMF 90 T4/T6 (A3:8) F400  | 20° - 42° | 2,20                | 14,00               | 54.810            | 72             | 116       | 3                |
|      | HMF 100 T4/T6 (A3:4) F400 | 20° - 42° | 5,50                | 20,00               | 67.210            | 72             | 138       | 3                |
|      | HMF 100 T4/T6 (A3:8) F400 | 20° - 42° | 5,50                | 20,00               | 75.110            | 81             | 143       | 3                |
|      | HMF 112 T4/T6 (A3:4) F400 | 20° - 42° | 5,50                | 26,00               | 92.110            | 76             | 175       | 3                |
|      | HMF 112 T4/T6 (A3:8) F400 | 20° - 40° | 5,50                | 26,00               | 91.810            | 83             | 181       | 3                |
|      | HMF 125 T4/T6 (A3:4) F400 | 20° - 42° | 10,00               | 40,00               | 107.010           | 83             | 194       | 3                |
|      | HMF 125 T4/T6 (A3:8) F400 | 20° - 40° | 10,00               | 40,00               | 97.910            | 89             | 201       | 3                |

## 2 speed motor / 4/8 poles

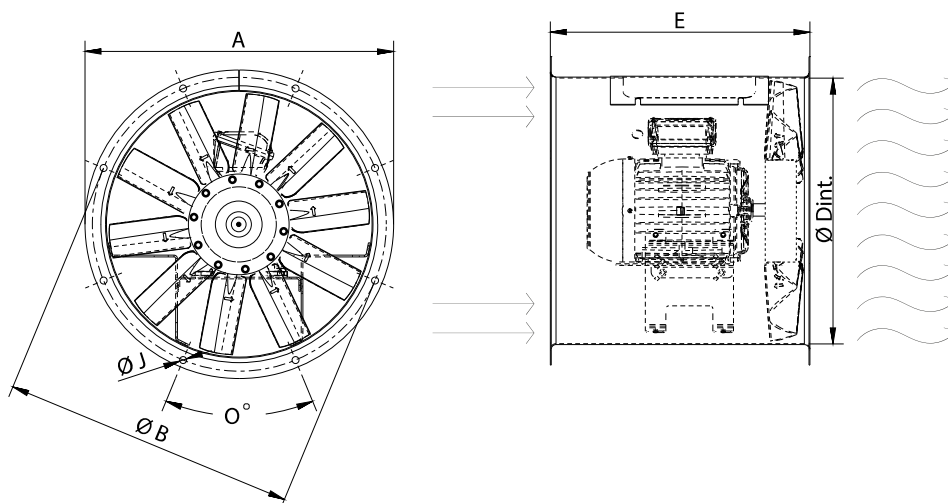
| Code | Model                     | Angle     | Min. Rated power kW | Max. Rated power kW | Max. Airflow m³/h | Sound db (A)** | Weight kg | Connect. diagram |
|------|---------------------------|-----------|---------------------|---------------------|-------------------|----------------|-----------|------------------|
|      | HMF 45 T4/T8 (A5:6) F400  | 20° - 45° | 0,60                | 1,60                | 7.310             | 51             | 19        | 1                |
|      | HMF 50 T4/T8 (A5:6) F400  | 20° - 45° | 0,60                | 1,60                | 10.210            | 55             | 26        | 1                |
|      | HMF 56 T4/T8 (A5:6) F400  | 20° - 45° | 0,60                | 2,80                | 14.480            | 70             | 33        | 2                |
|      | HMF 63 T4/T8 (A5:6) F400  | 20° - 45° | 0,60                | 2,80                | 20.110            | 74             | 37        | 2                |
|      | HMF 71 T4/T8 (A5:6) F400  | 20° - 45° | 0,60                | 4,00                | 27.220            | 79             | 43        | 2                |
|      | HMF 80 T4/T8 (A5:6) F400  | 20° - 45° | 1,20                | 4,00                | 37.370            | 76             | 52        | 2                |
|      | HMF 90 T4/T8 (A3:4) F400  | 20° - 42° | 2,80                | 17,00               | 48.110            | 67             | 111       | 2                |
|      | HMF 90 T4/T8 (A3:8) F400  | 20° - 42° | 5,50                | 17,00               | 54.810            | 72             | 116       | 2                |
|      | HMF 100 T4/T8 (A3:4) F400 | 20° - 42° | 5,50                | 20,00               | 67.210            | 72             | 138       | 2                |
|      | HMF 100 T4/T8 (A3:8) F400 | 20° - 42° | 5,50                | 20,00               | 77.810            | 81             | 143       | 2                |
|      | HMF 112 T4/T8 (A3:4) F400 | 20° - 42° | 5,50                | 37,00               | 92.110            | 76             | 175       | 2                |
|      | HMF 112 T4/T8 (A3:8) F400 | 20° - 42° | 5,50                | 37,00               | 104.010           | 83             | 181       | 2                |
|      | HMF 125 T4/T8 (A3:4) F400 | 20° - 42° | 11,00               | 44,00               | 124.010           | 83             | 194       | 2                |
|      | HMF 125 T4/T8 (A3:8) F400 | 20° - 40° | 11,00               | 44,00               | 141.010           | 89             | 201       | 2                |

### Notes:

\* The motor is not included in fan weight

\*\* Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

## Dimensions



| Model                     | E   | O      | ØA  | ØB  | ØD  | ØJ |
|---------------------------|-----|--------|-----|-----|-----|----|
| HMF 45 T2 (A8:6) F400     | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T2 (A8:9) F400     | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T2 (A8:12) F400    | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T4 (A5:6) F400     | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T6 (A5:6) F400     | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T2/T4 (A8:6) F400  | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T2/T4 (A8:9) F400  | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T2/T4 (A8:12) F400 | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 45 T4/T8 (A5:6) F400  | 455 | 8x45°  | 525 | 500 | 452 | 12 |
| HMF 50 T2 (A8:6) F400     | 540 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T2 (A8:9) F400     | 540 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T2 (A8:12) F400    | 540 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T4 (A5:6) F400     | 440 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T6 (A5:6) F400     | 440 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T2/T4 (A8:6) F400  | 540 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T2/T4 (A8:9) F400  | 540 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T2/T4 (A8:12) F400 | 540 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 50 T4/T8 (A5:6) F400  | 440 | 12x30° | 600 | 560 | 504 | 12 |
| HMF 56 T2 (A8:6) F400     | 560 | 12x30° | 646 | 620 | 559 | 12 |
| HMF 56 T2 (A8:9) F400     | 560 | 12x30° | 646 | 620 | 559 | 12 |
| HMF 56 T2 (A8:12) F400    | 560 | 12x30° | 646 | 620 | 559 | 12 |
| HMF 56 T4 (A5:6) F400     | 560 | 12x30° | 646 | 620 | 559 | 12 |
| HMF 56 T6 (A5:6) F400     | 560 | 12x30° | 646 | 620 | 559 | 12 |
| HMF 56 T2/T4 (A8:6) F400  | 560 | 12x30° | 646 | 620 | 559 | 12 |
| HMF 56 T2/T4 (A8:9) F400  | 560 | 12x30° | 646 | 620 | 559 | 12 |

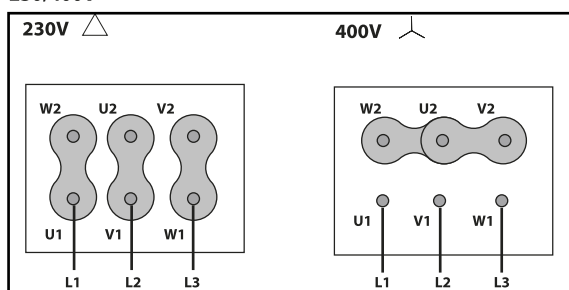
| Model                     | E    | O                    | ØA   | ØB   | ØD    | ØJ |
|---------------------------|------|----------------------|------|------|-------|----|
| HMF 56 T2/T4 (A8:12) F400 | 560  | 12x30 <sup>º</sup>   | 646  | 620  | 559   | 12 |
| HMF 56 T4/T6 (A5:6) F400  | 560  | 12X30 <sup>º</sup>   | 646  | 620  | 559   | 12 |
| HMF 56 T4/T8 (A5:6) F400  | 560  | 12X30 <sup>º</sup>   | 646  | 620  | 559   | 12 |
| HMF 63 T4 (A5:6) F400     | 550  | 12X30 <sup>º</sup>   | 725  | 690  | 633   | 12 |
| HMF 63 T6 (A5:6) F400     | 550  | 12X30 <sup>º</sup>   | 725  | 690  | 633   | 12 |
| HMF 63 T4/T6 (A5:6) F400  | 550  | 12X30 <sup>º</sup>   | 725  | 690  | 633   | 12 |
| HMF 63 T4/T8 (A5:6) F400  | 550  | 12X30 <sup>º</sup>   | 725  | 690  | 633   | 12 |
| HMF 71 T4 (A5:6) F400     | 600  | 16x22,5 <sup>º</sup> | 802  | 770  | 715   | 12 |
| HMF 71 T6 (A5:6) F400     | 600  | 16x22,5 <sup>º</sup> | 802  | 770  | 715   | 12 |
| HMF 71 T4/T6 (A5:6) F400  | 600  | 16x22,5 <sup>º</sup> | 802  | 770  | 715   | 12 |
| HMF 71 T4/T8 (A5:6) F400  | 600  | 16x22,5 <sup>º</sup> | 802  | 770  | 715   | 12 |
| HMF 80 T4 (A5:6) F400     | 600  | 16x22,5 <sup>º</sup> | 892  | 860  | 801   | 12 |
| HMF 80 T6 (A5:6) F400     | 600  | 16x22,5 <sup>º</sup> | 892  | 860  | 801   | 12 |
| HMF 80 T4/T6 (A5:6) F400  | 600  | 16x22,5 <sup>º</sup> | 892  | 860  | 801   | 12 |
| HMF 80 T4/T8 (A5:6) F400  | 600  | 16x22,5 <sup>º</sup> | 892  | 860  | 801   | 12 |
| HMF 90 T4 (A3:4) F400     | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 90 T4 (A3:8) F400     | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 90 T6 (A3:4) F400     | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 90 T6 (A3:8) F400     | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 90 T4/T6 (A3:4) F400  | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 90 T4/T6 (A3:8) F400  | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 90 T4/T8 (A3:4) F400  | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 90 T4/T8 (A3:8) F400  | 820  | 16x22,5 <sup>º</sup> | 1000 | 970  | 903.5 | 12 |
| HMF 100 T4 (A3:4) F400    | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 100 T4 (A3:8) F400    | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 100 T6 (A3:4) F400    | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 100 T6 (A3:8) F400    | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 100 T4/T6 (A3:4) F400 | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 100 T4/T6 (A3:8) F400 | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 100 T4/T8 (A3:4) F400 | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 100 T4/T8 (A3:8) F400 | 820  | 16x22,5 <sup>º</sup> | 1115 | 1070 | 1013  | 12 |
| HMF 112 T4 (A3:4) F400    | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 112 T4 (A3:8) F400    | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 112 T6 (A3:4) F400    | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 112 T6 (A3:8) F400    | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 112 T4/T6 (A3:4) F400 | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 112 T4/T6 (A3:8) F400 | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 112 T4/T8 (A3:4) F400 | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 112 T4/T8 (A3:8) F400 | 1000 | 16x22,5 <sup>º</sup> | 1234 | 1190 | 1132  | 12 |
| HMF 125 T4 (A3:4) F400    | 1000 | 20x18 <sup>º</sup>   | 1365 | 1320 | 1263  | 15 |

| Model                     | E    | O                  | ØA   | ØB   | ØD   | ØJ |
|---------------------------|------|--------------------|------|------|------|----|
| HMF 125 T4 (A3:8) F400    | 1000 | 20x18 <sup>º</sup> | 1365 | 1320 | 1263 | 15 |
| HMF 125 T6 (A3:4) F400    | 1000 | 20x18 <sup>º</sup> | 1365 | 1320 | 1263 | 15 |
| HMF 125 T6 (A3:8) F400    | 1000 | 20x18 <sup>º</sup> | 1365 | 1320 | 1263 | 15 |
| HMF 125 T4/T6 (A3:4) F400 | 1000 | 20x18 <sup>º</sup> | 1365 | 1320 | 1263 | 15 |
| HMF 125 T4/T6 (A3:8) F400 | 1000 | 20x18 <sup>º</sup> | 1365 | 1320 | 1263 | 15 |
| HMF 125 T4/T8 (A3:4) F400 | 1000 | 20x18 <sup>º</sup> | 1365 | 1320 | 1263 | 15 |
| HMF 125 T4/T8 (A3:8) F400 | 1000 | 20x18 <sup>º</sup> | 1365 | 1320 | 1263 | 15 |

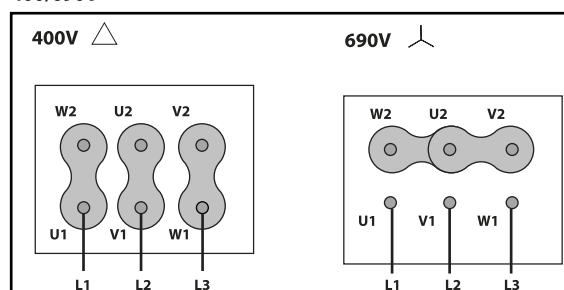
## Wiring diagram

### Wiring diagram N° 1

230/400V

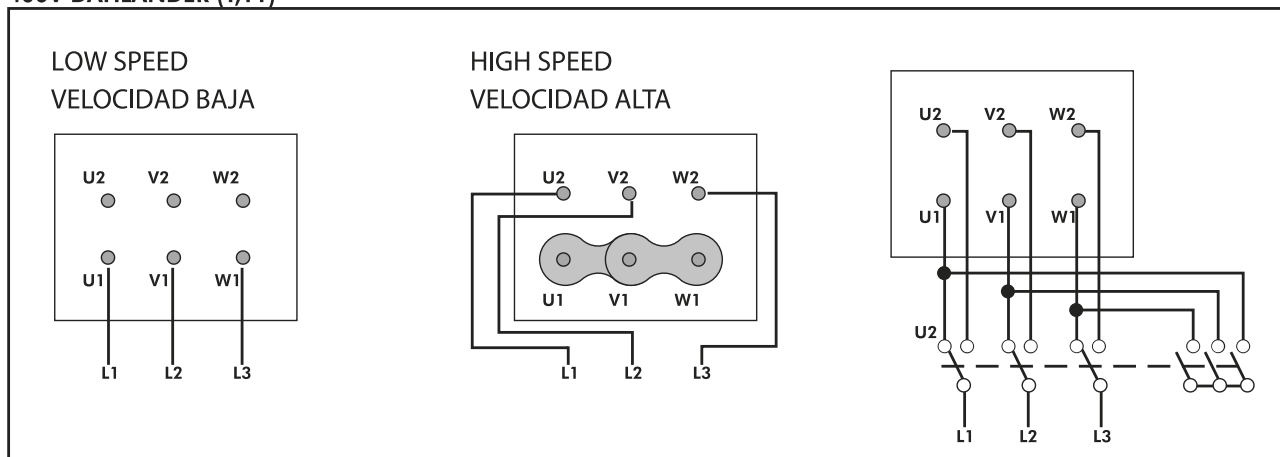


400/690V



### Wiring diagram N° 2

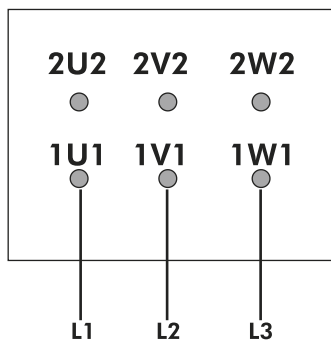
400V DAHLANDER (Y,YY)



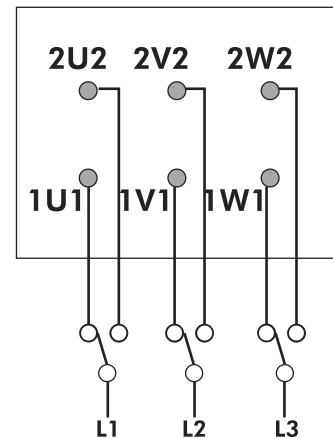
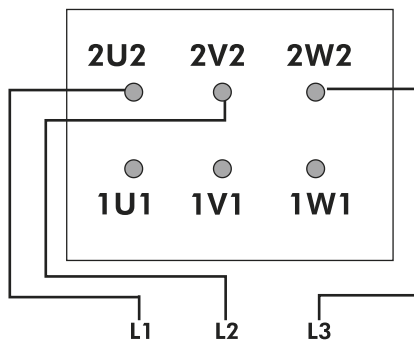


**Wiring diagram Nº 3**

LOW SPEED  
VELOCIDAD BAJA



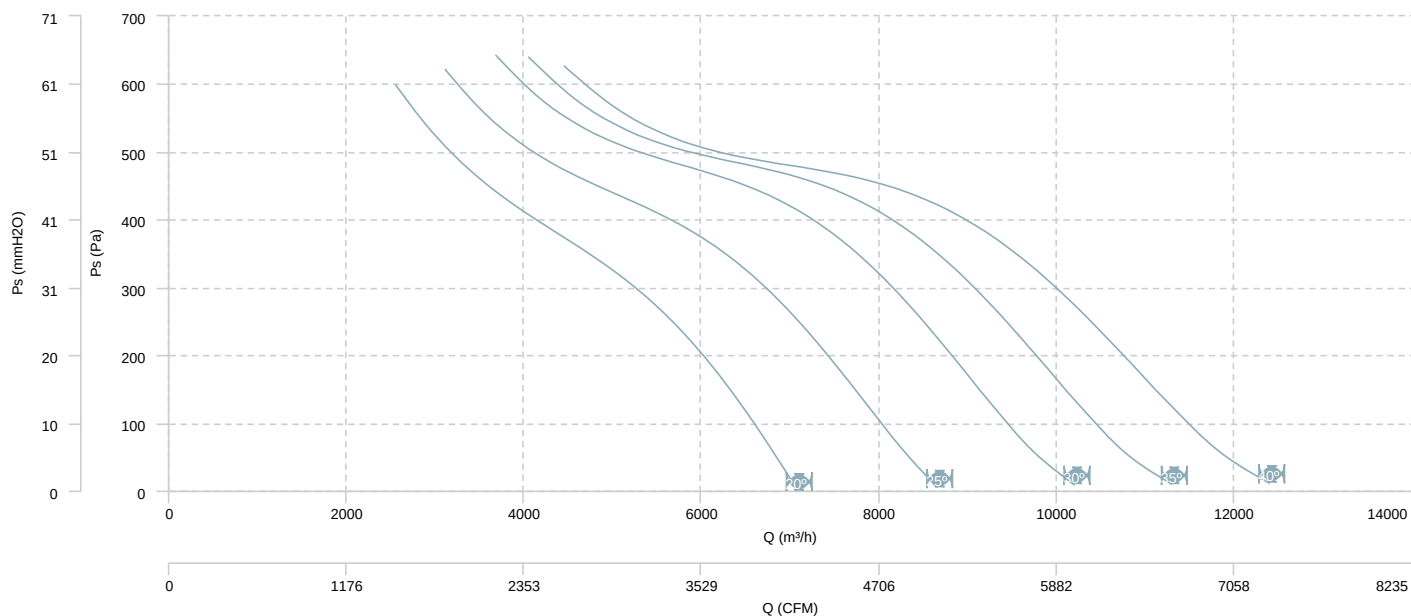
HIGH SPEED  
VELOCIDAD ALTA



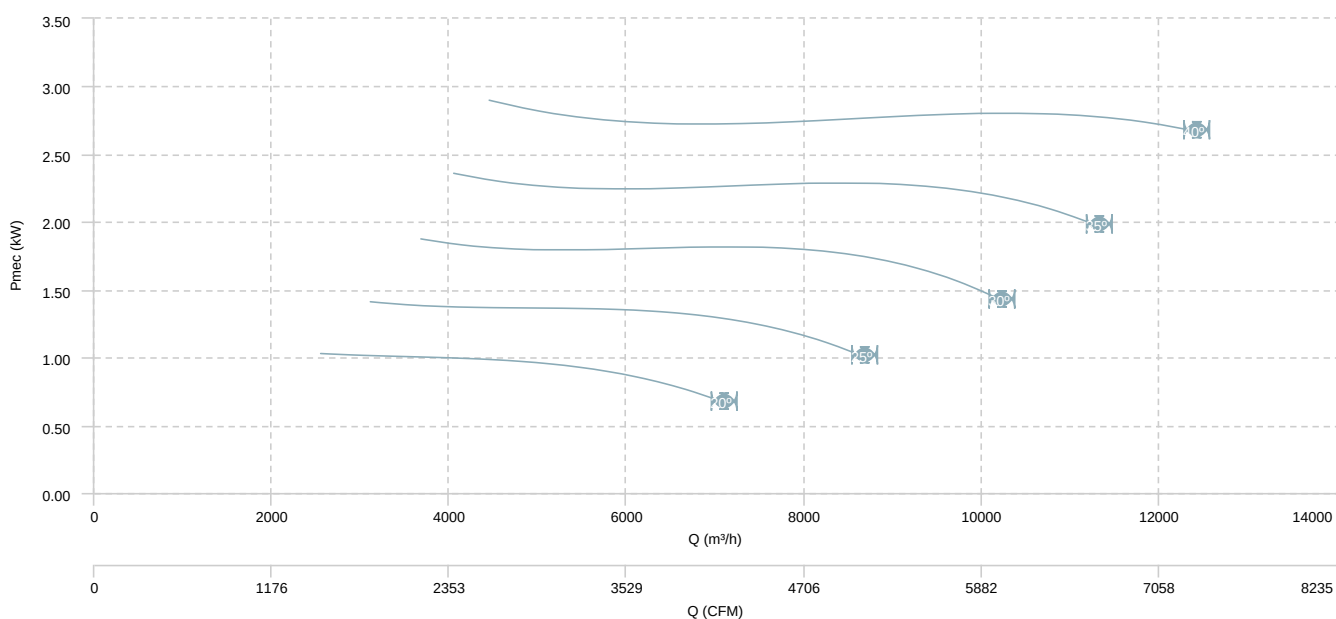
## CHARACTERISCTIC CURVE

HMF 45 T2 (A8:6) F400

### AIR FLOW - PRESSURE

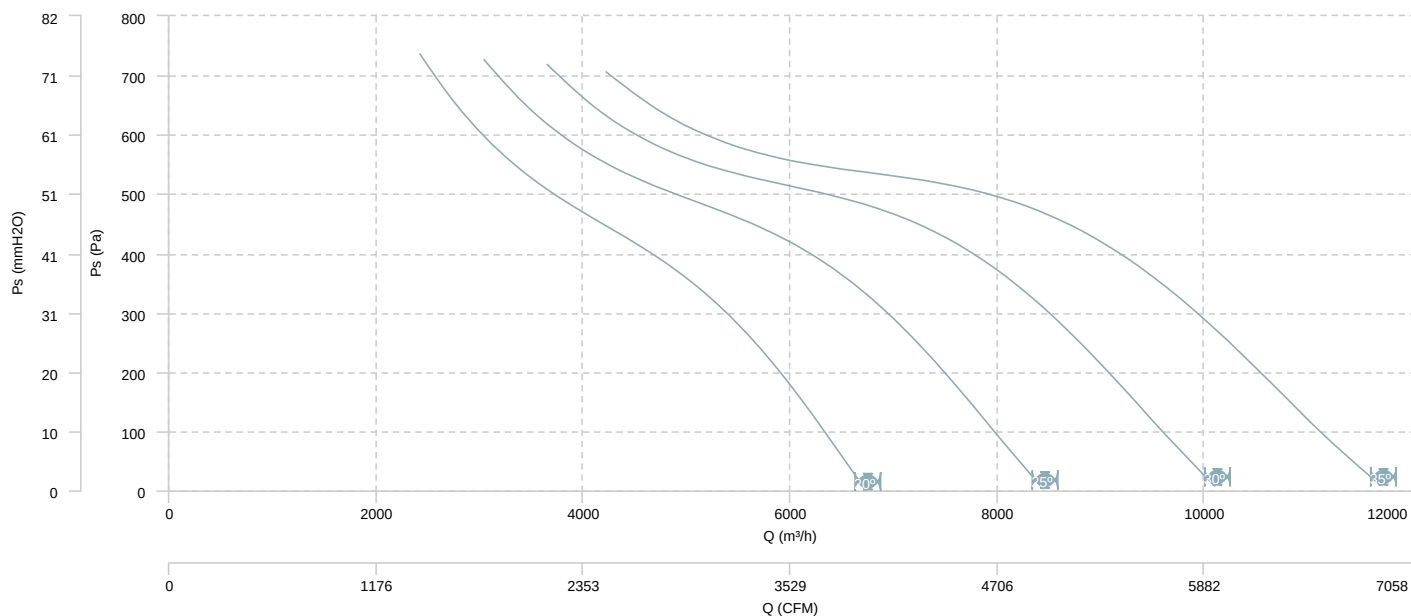


### AIR FLOW - MECHANICAL POWER

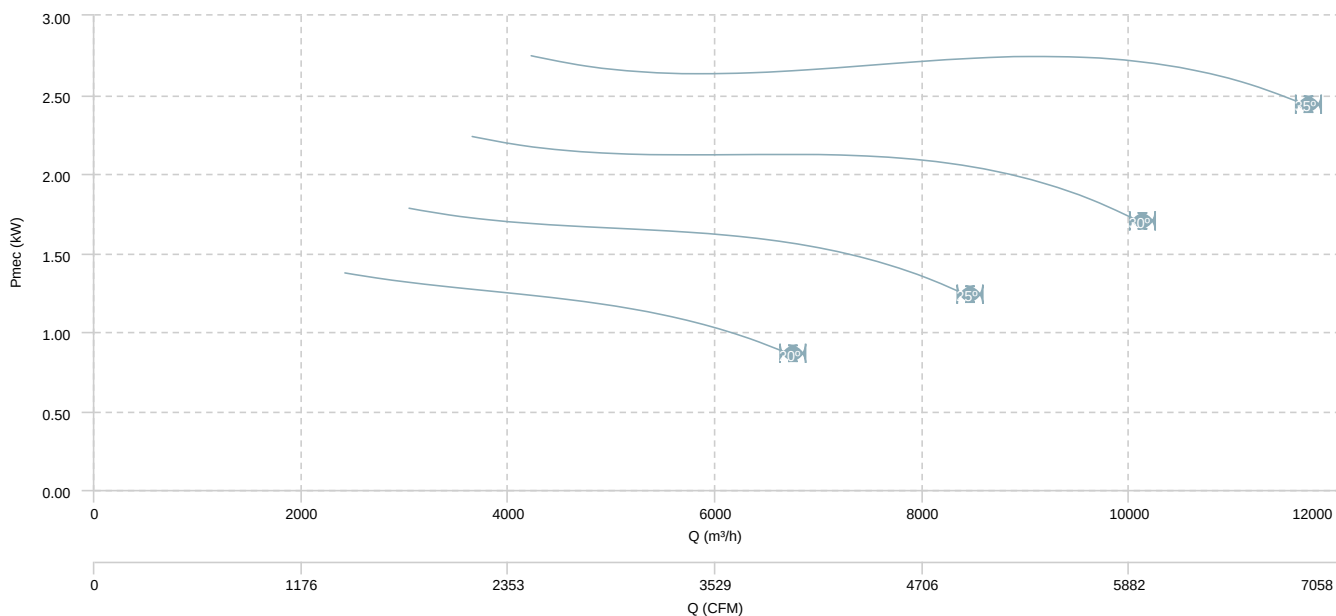


**HMF 45 T2 (A8:9) F400**

**AIR FLOW - PRESSURE**

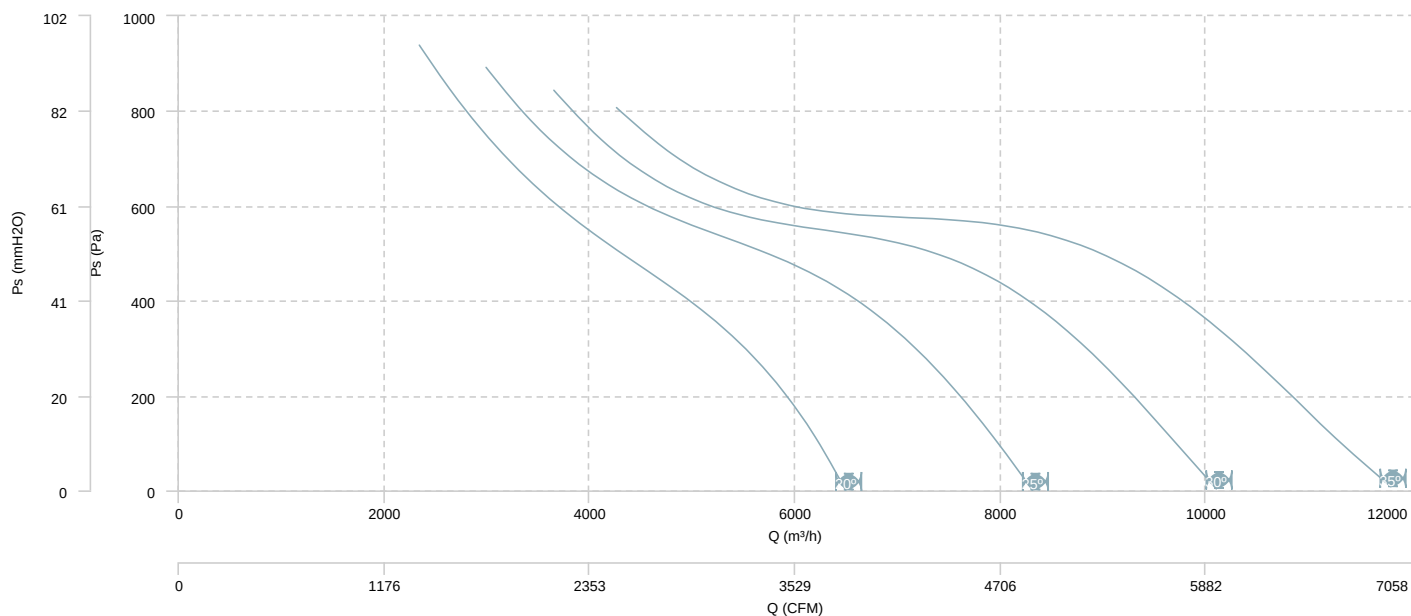


**AIR FLOW - MECHANICAL POWER**

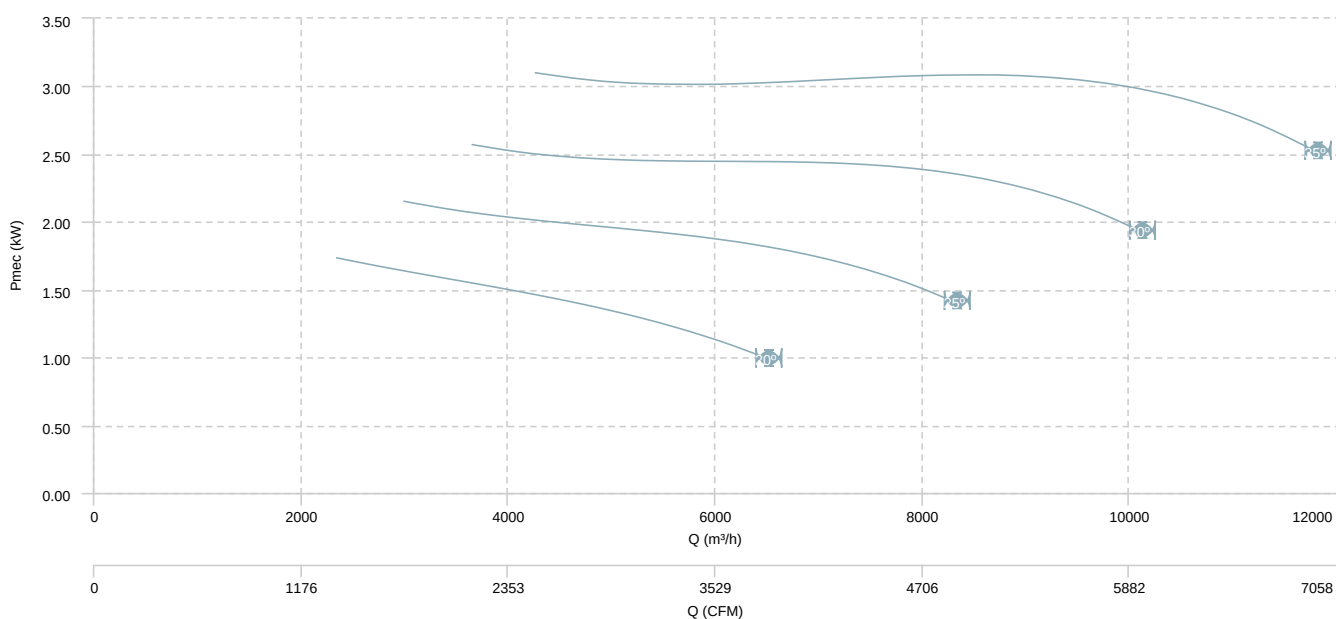


HMF 45 T2 (A8:12) F400

**AIR FLOW - PRESSURE**

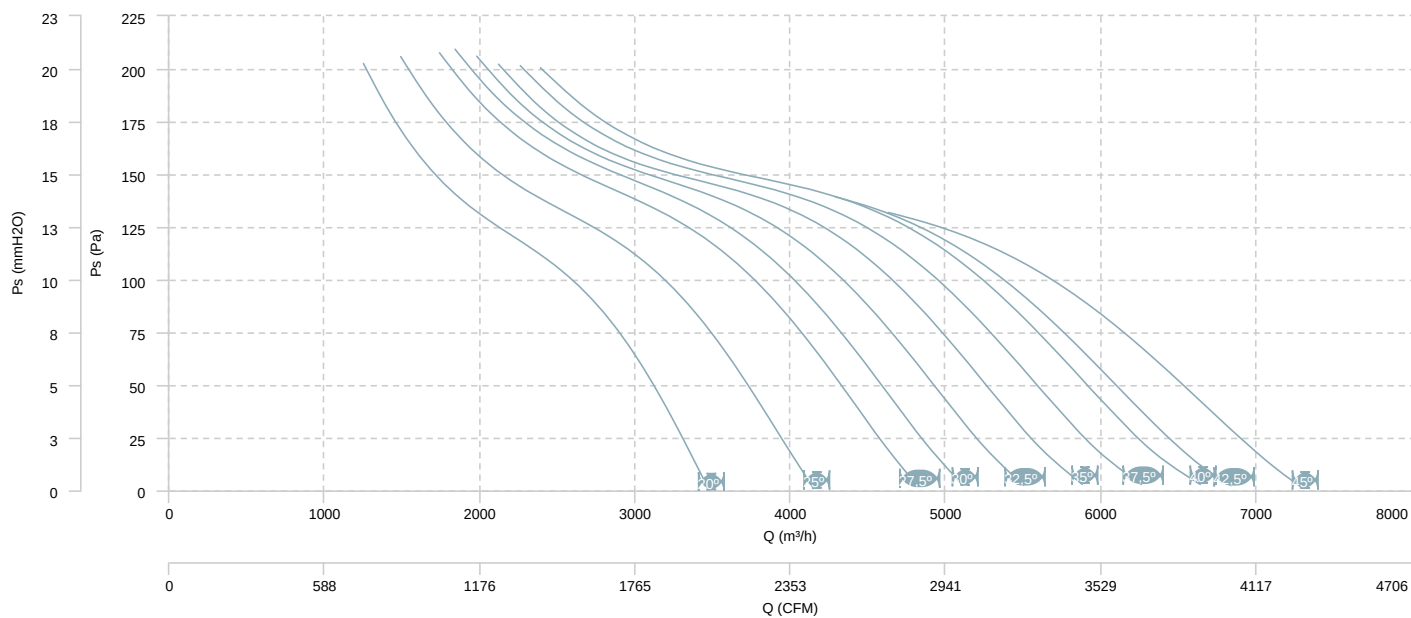


**AIR FLOW - MECHANICAL POWER**

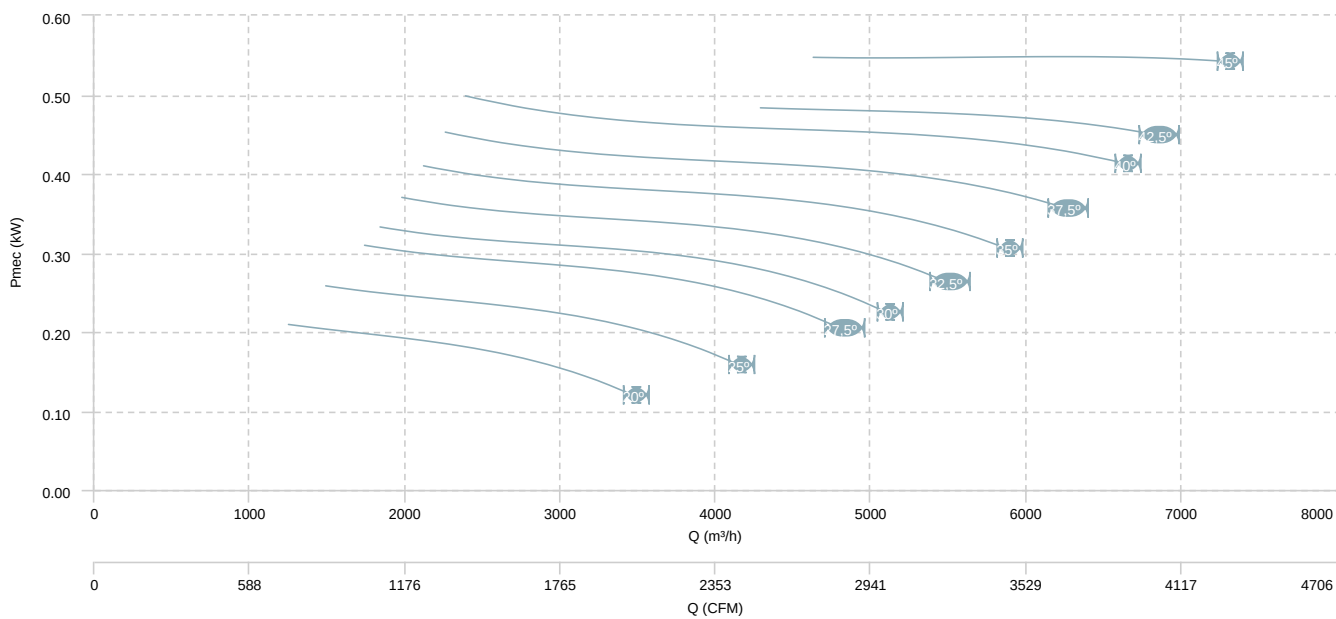


HMF 45 T4 (A5:6) F400

## AIR FLOW - PRESSURE

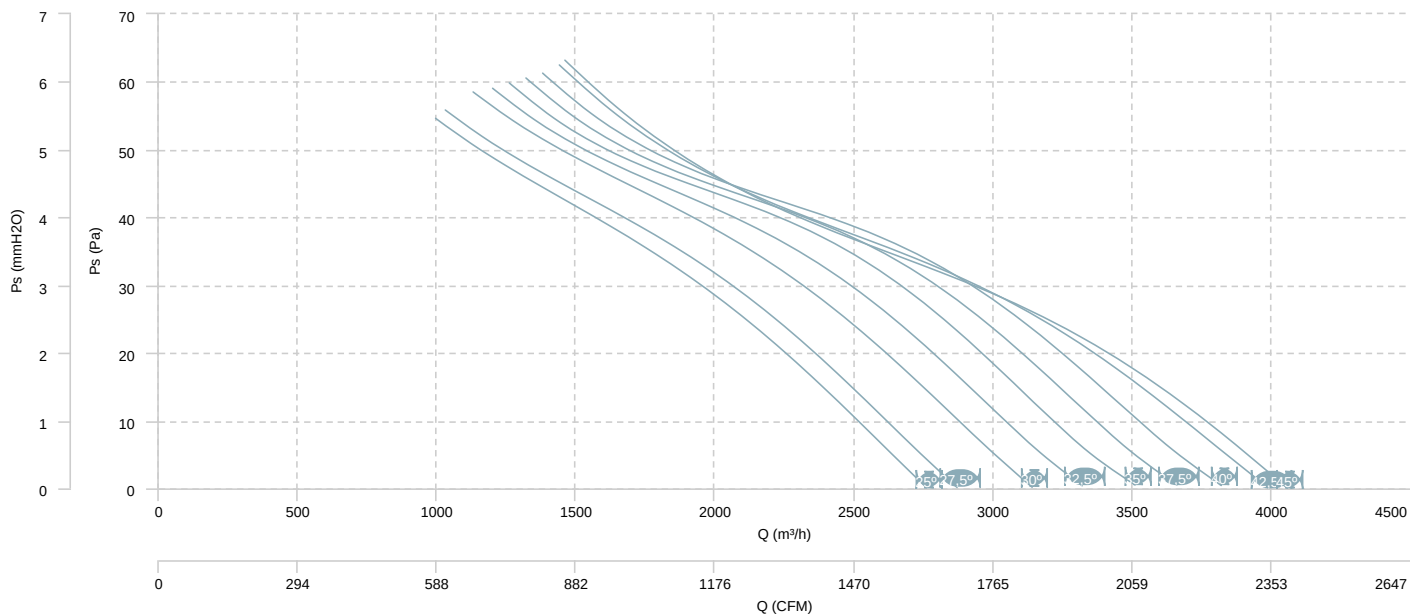


## AIR FLOW - MECHANICAL POWER

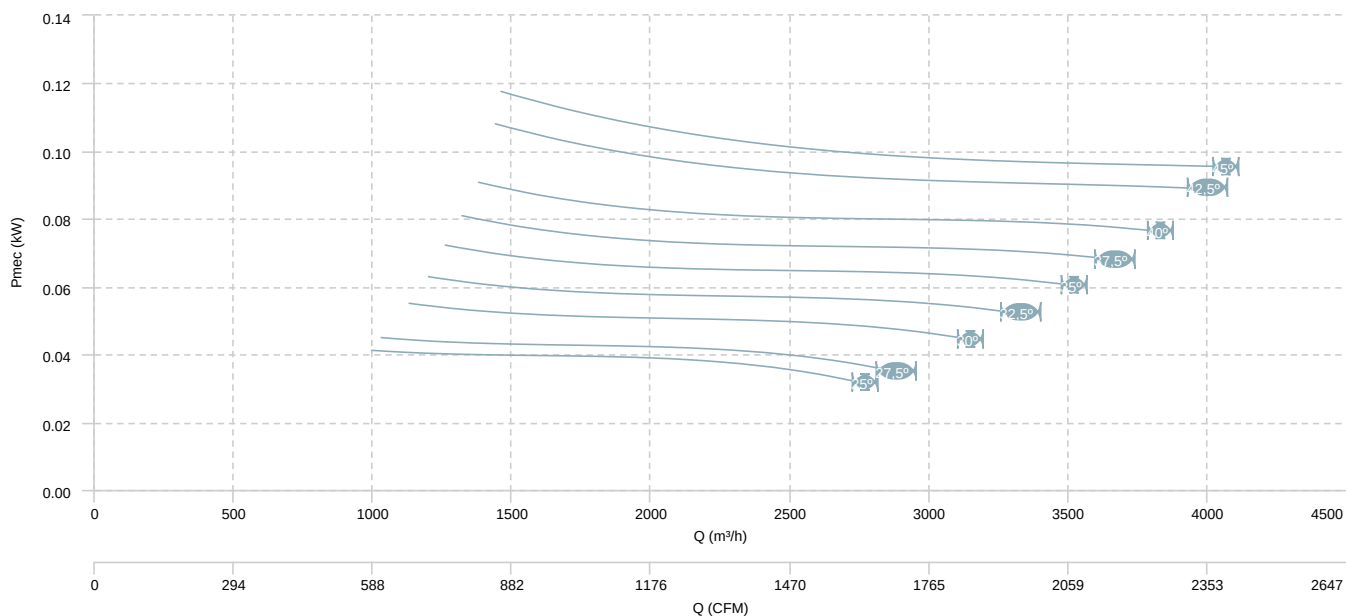


HMF 45 T6 (A5:6) F400

## AIR FLOW - PRESSURE

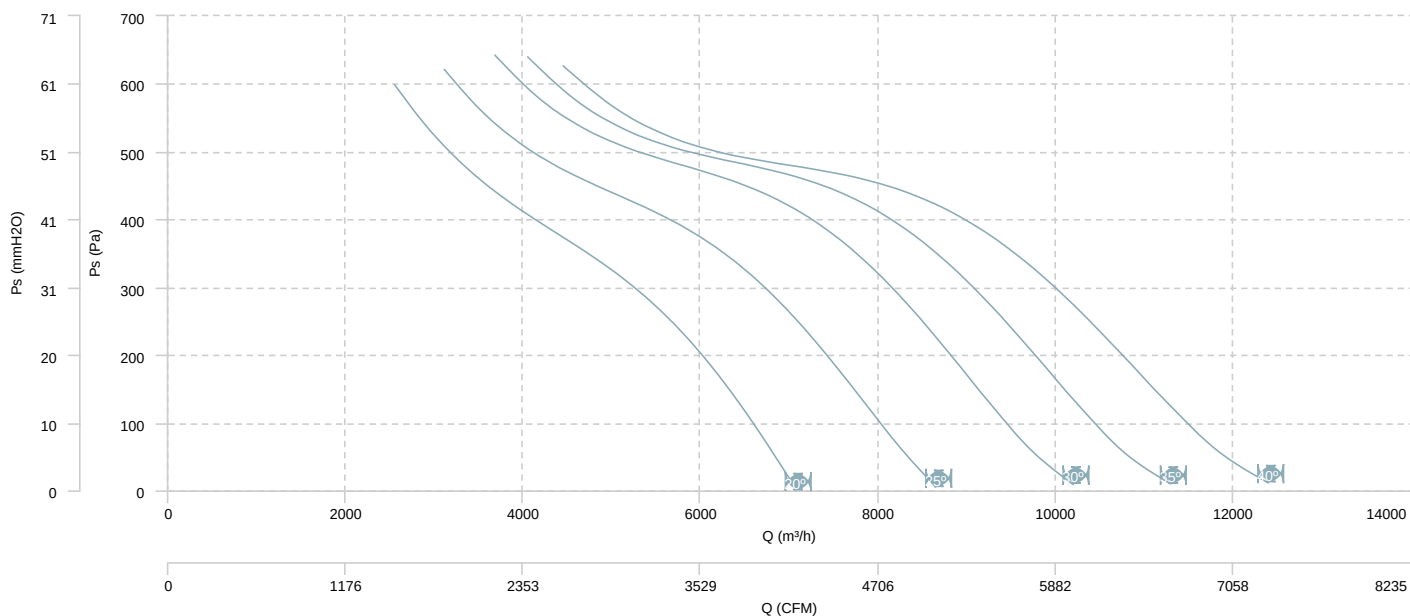


## AIR FLOW - MECHANICAL POWER

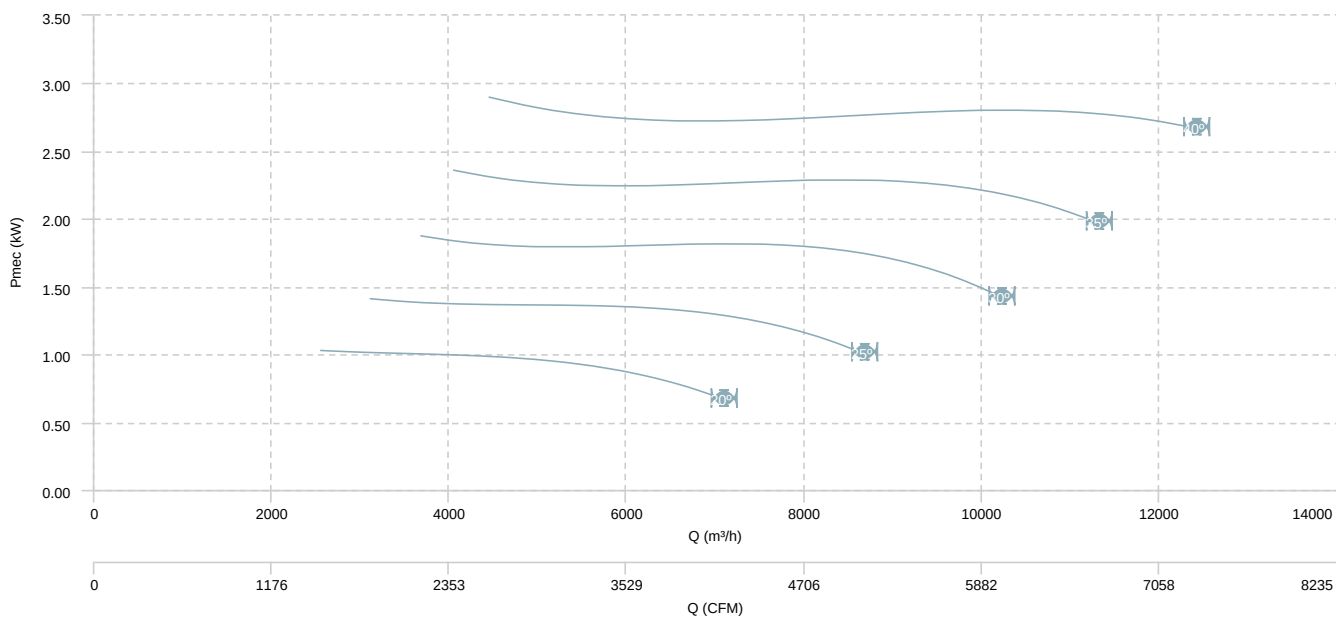


HMF 45 T2/T4 (A8:6) F400

**AIR FLOW - PRESSURE (2 poles)**

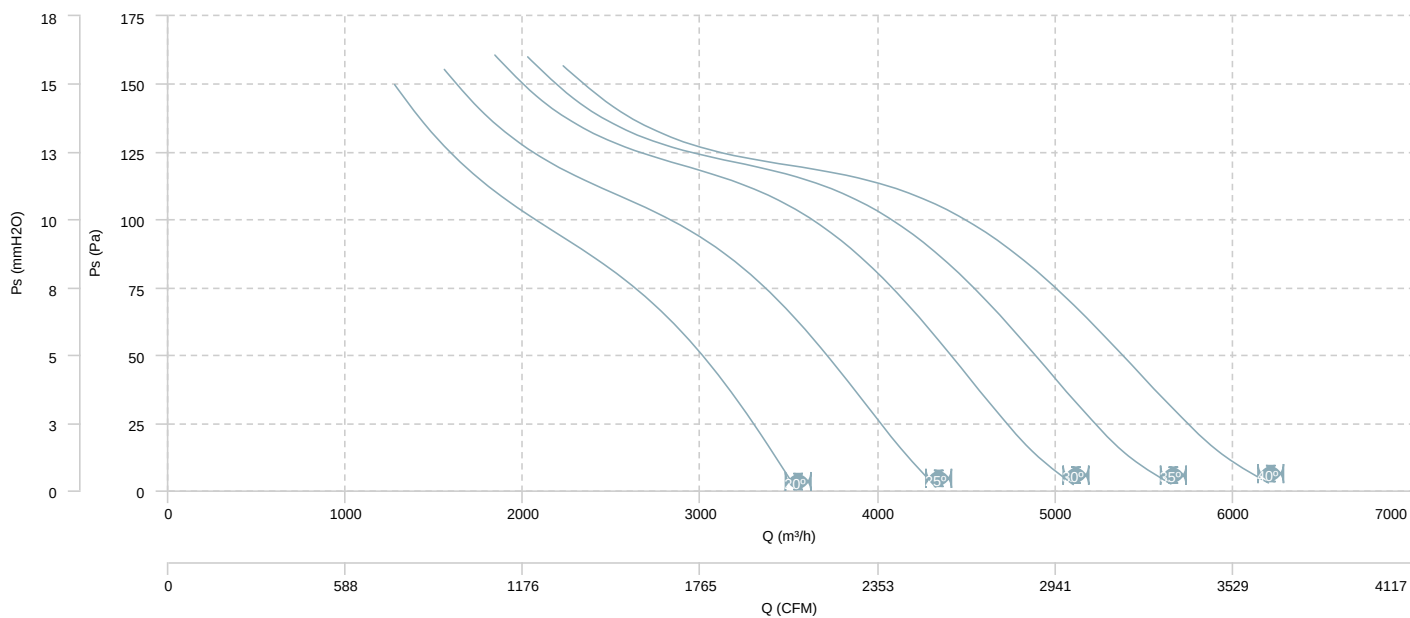


**AIR FLOW - MECHANICAL POWER (2 poles)**

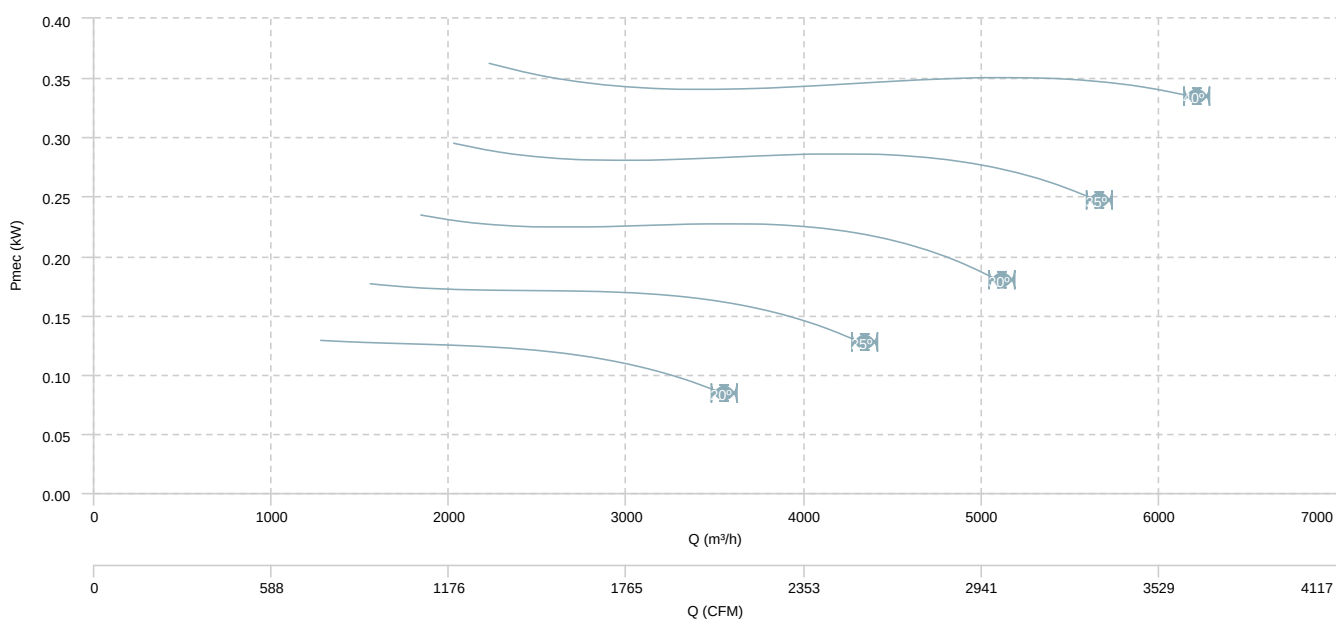


HMF 45 T2/T4 (A8:6) F400

**AIR FLOW - PRESSURE (4 poles)**



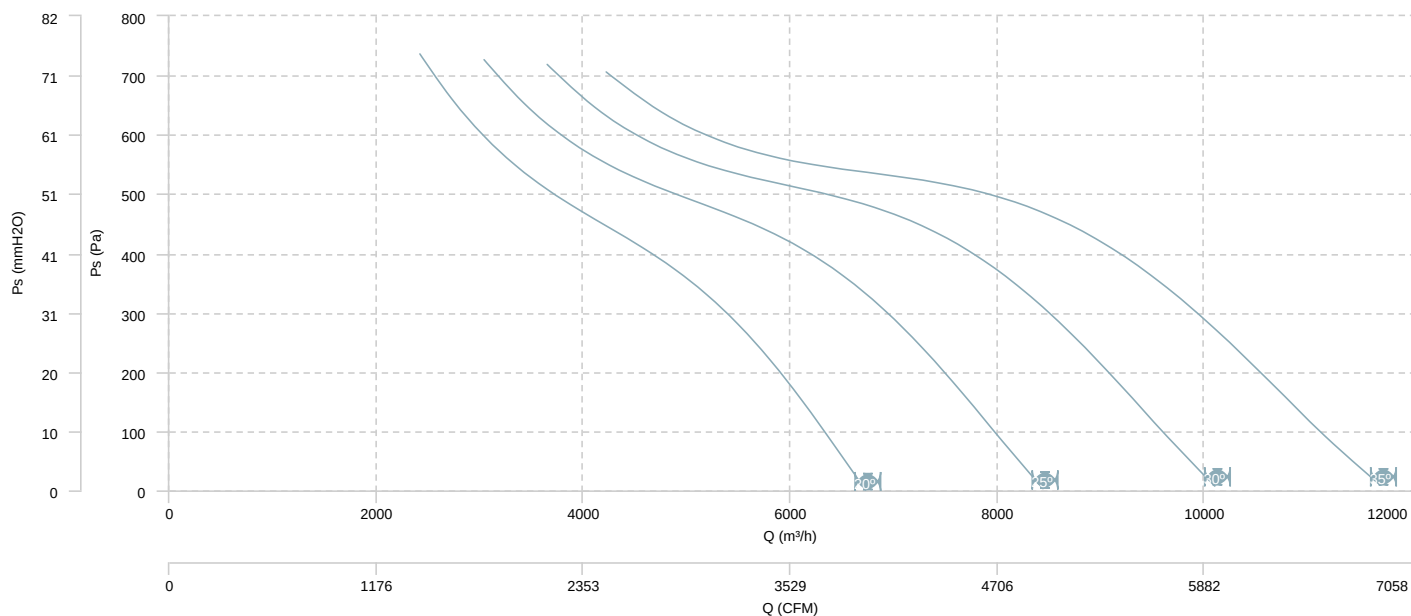
**AIR FLOW - MECHANICAL POWER (4 poles)**



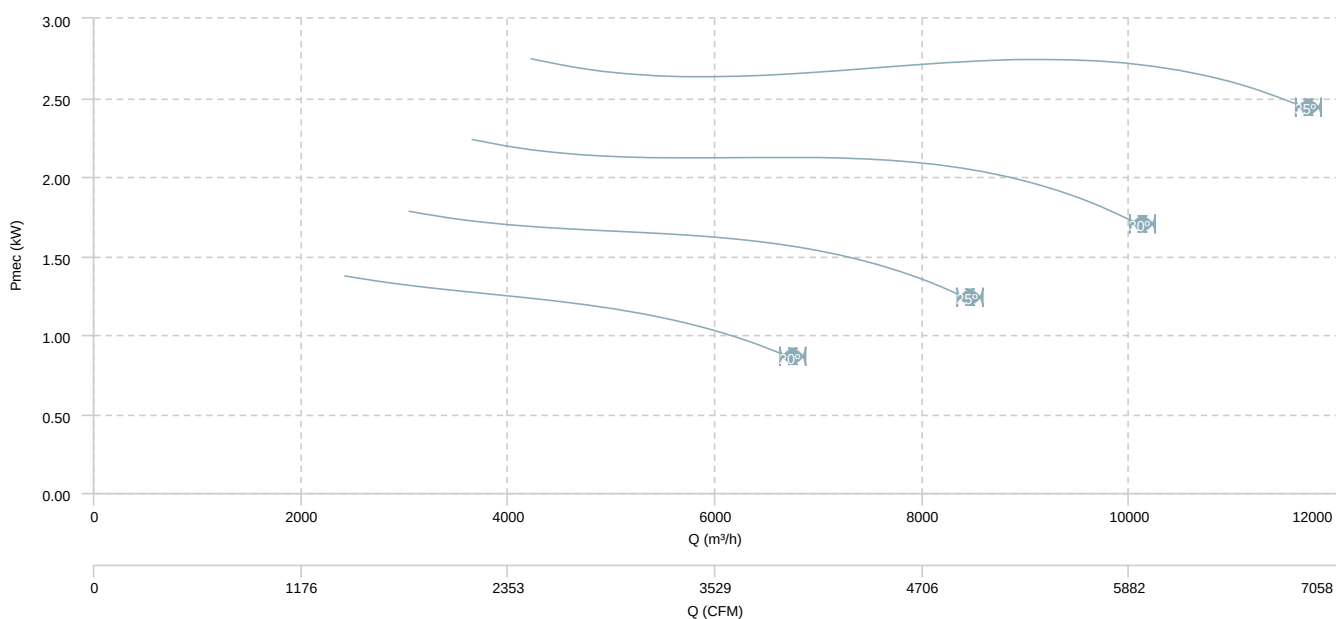


HMF 45 T2/T4 (A8:9) F400

**AIR FLOW - PRESSURE (2 poles)**

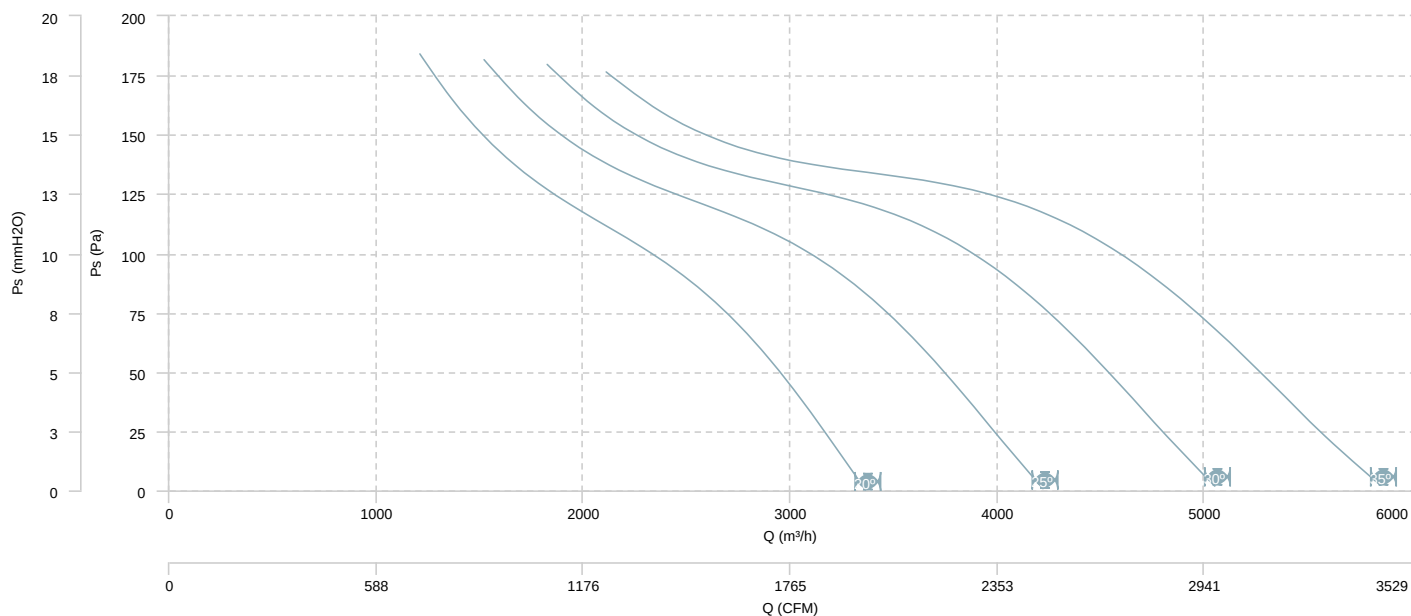


**AIR FLOW - MECHANICAL POWER (2 poles)**

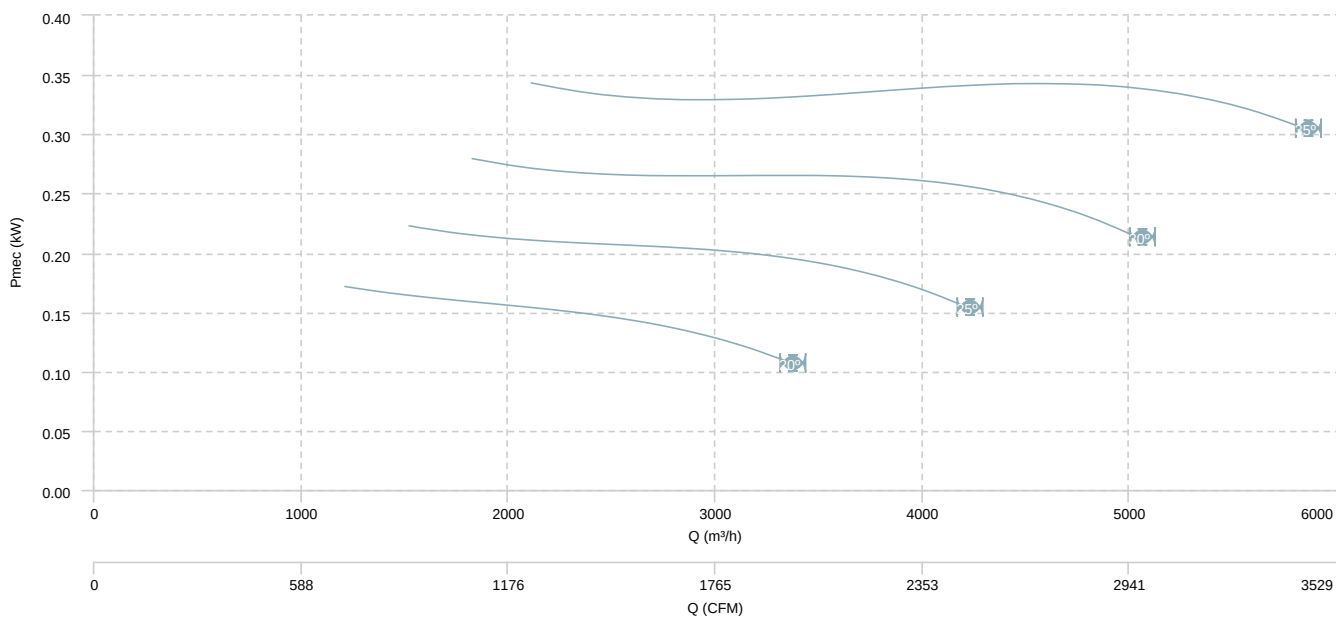


HMF 45 T2/T4 (A8:9) F400

**AIR FLOW - PRESSURE (4 poles)**

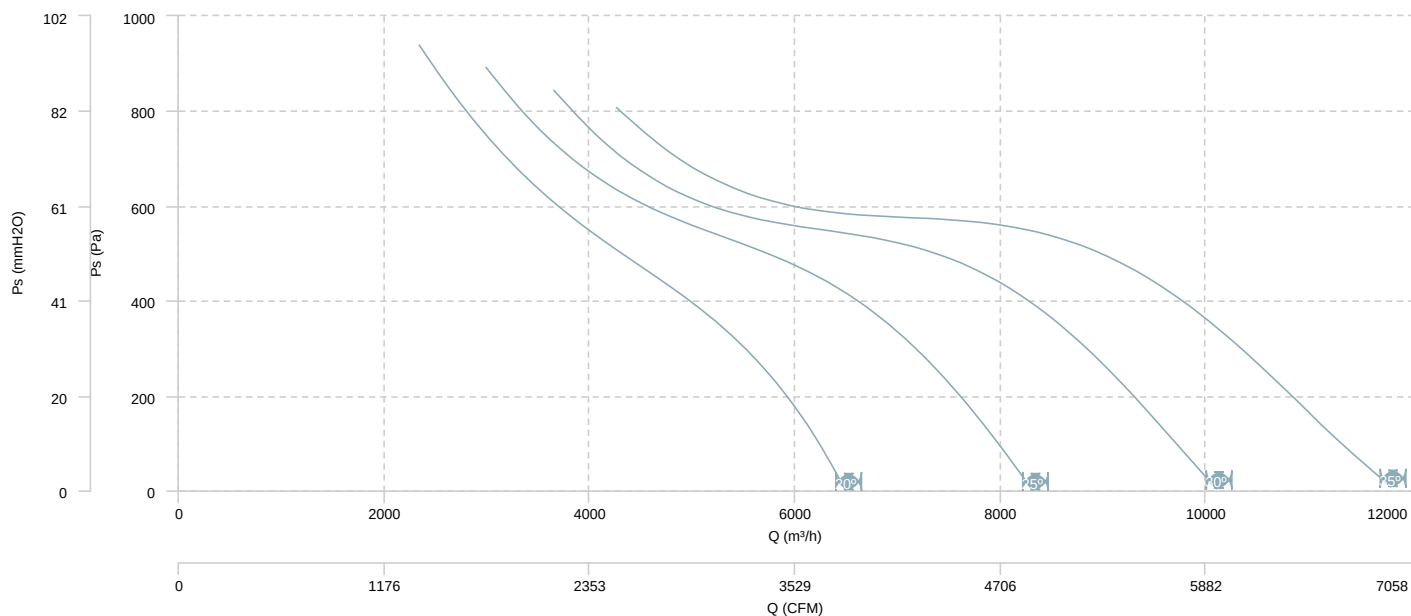


**AIR FLOW - MECHANICAL POWER (4 poles)**

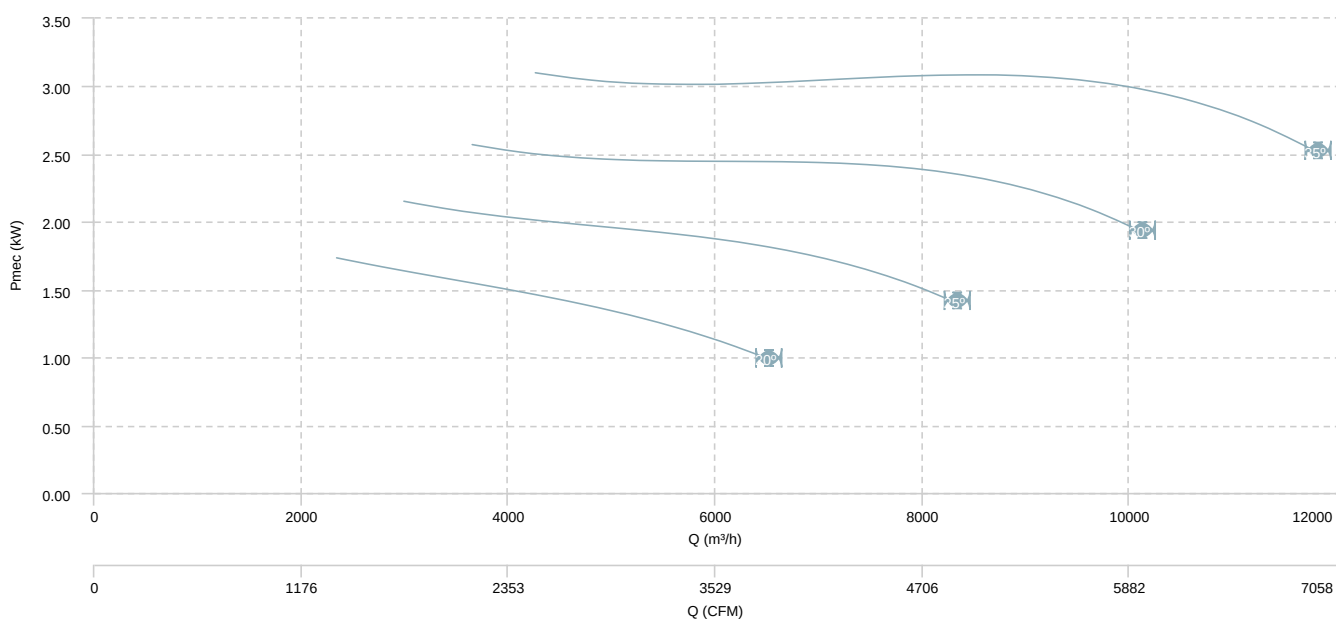


**HMF 45 T2/T4 (A8:12) F400**

**AIR FLOW - PRESSURE (2 poles)**

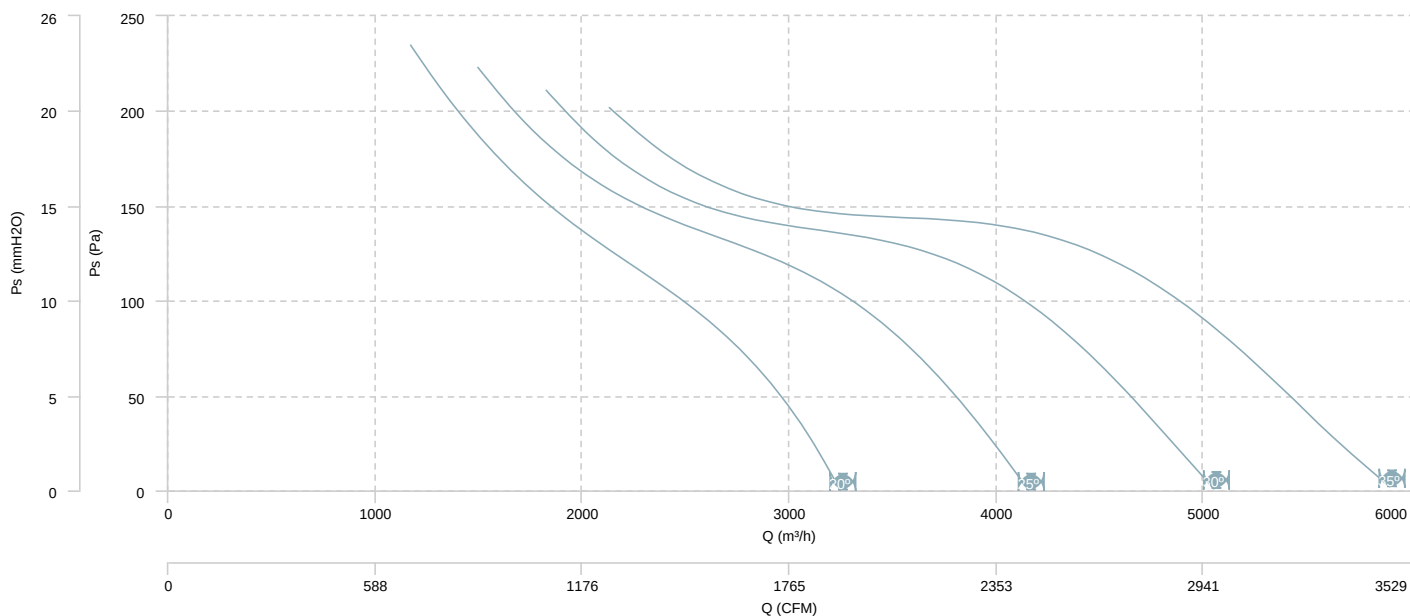


**AIR FLOW - MECHANICAL POWER (2 poles)**

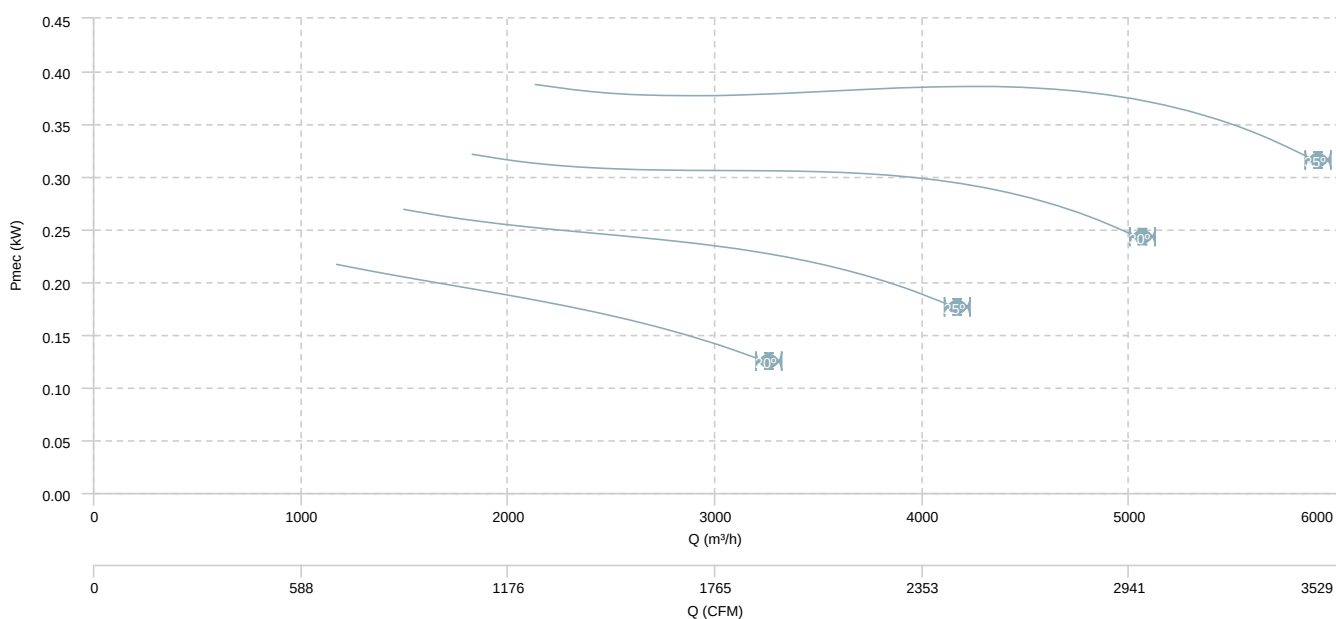


HMF 45 T2/T4 (A8:12) F400

**AIR FLOW - PRESSURE (4 poles)**

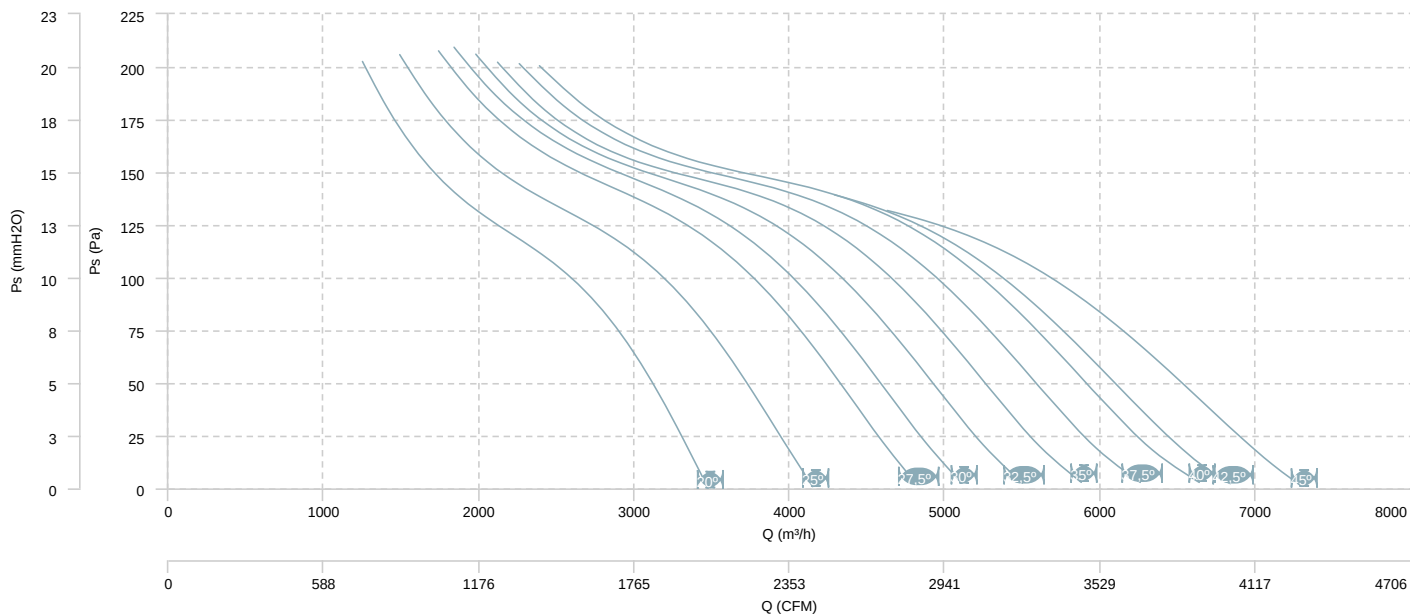


**AIR FLOW - MECHANICAL POWER (4 poles)**

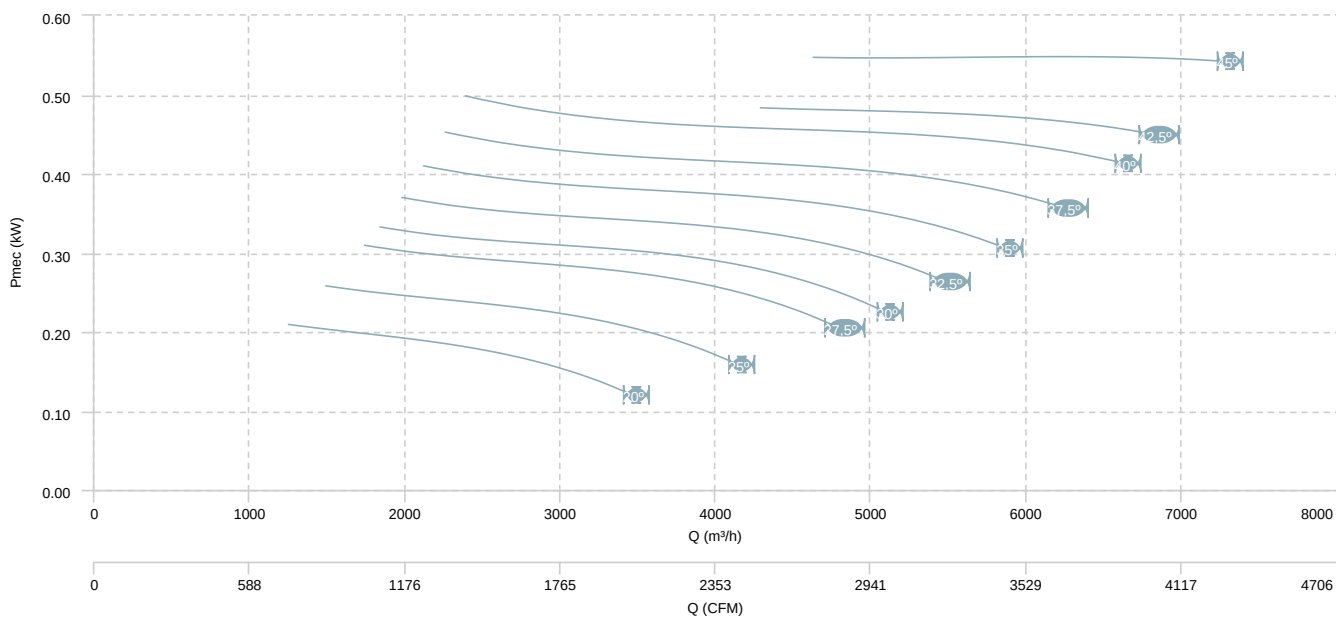


HMF 45 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

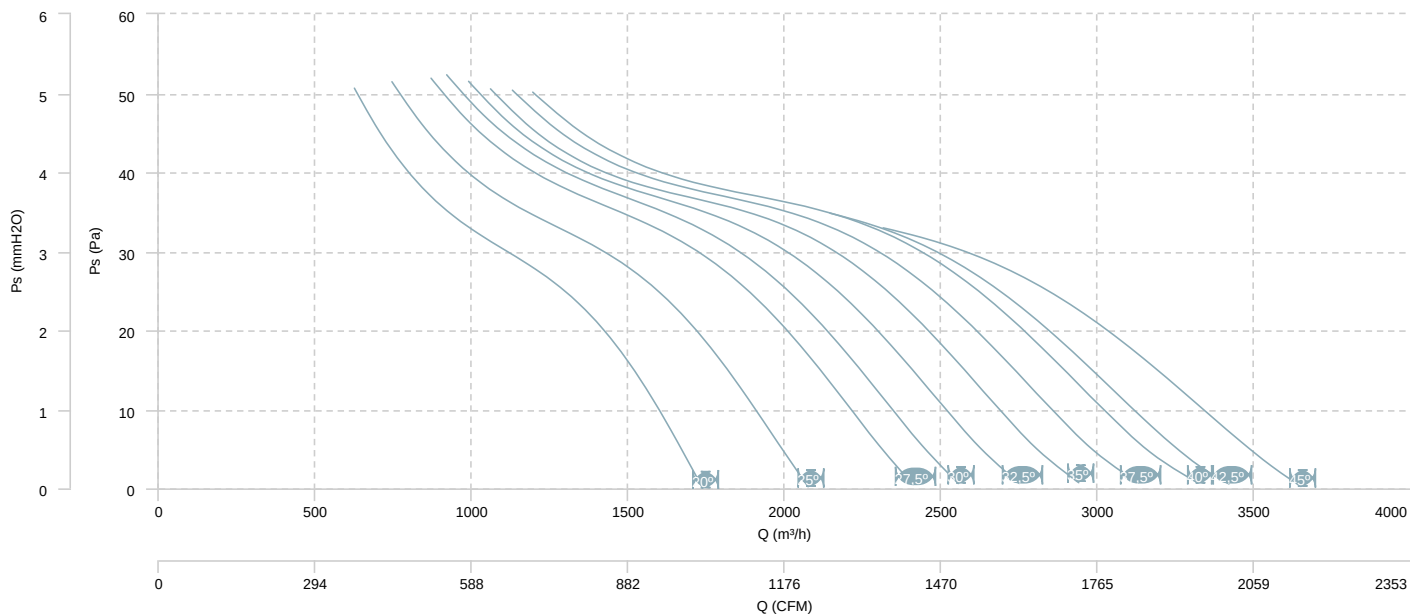


**AIR FLOW - MECHANICAL POWER (4 poles)**

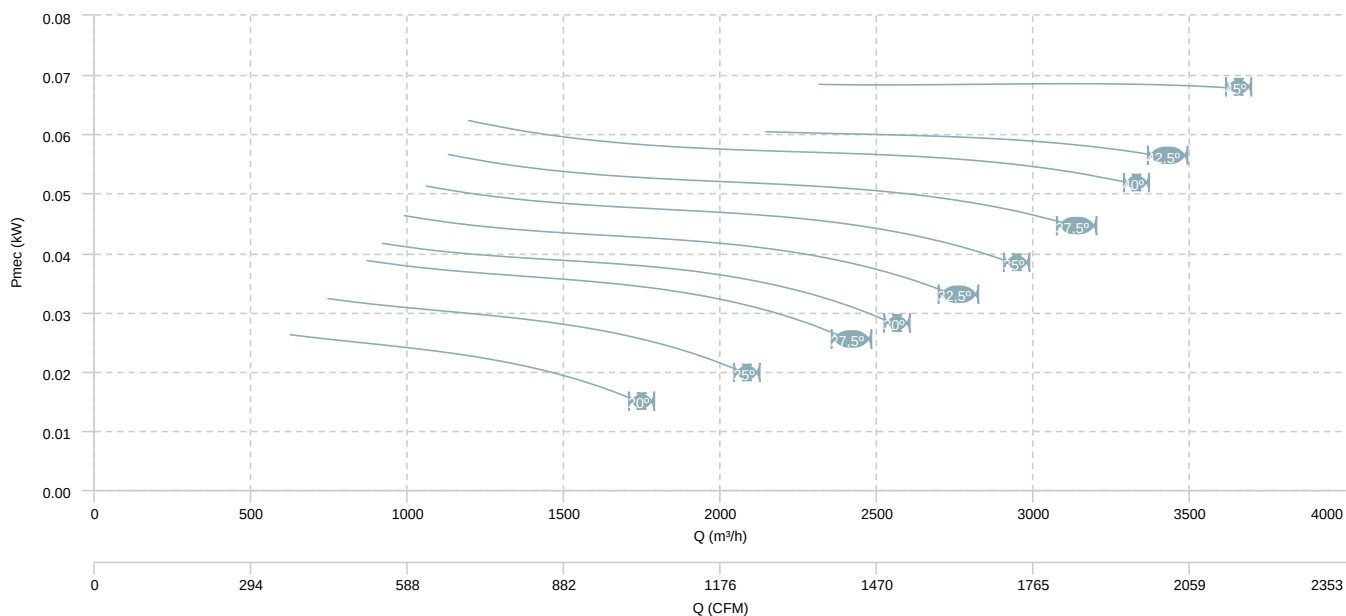


HMF 45 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (8 poles)**

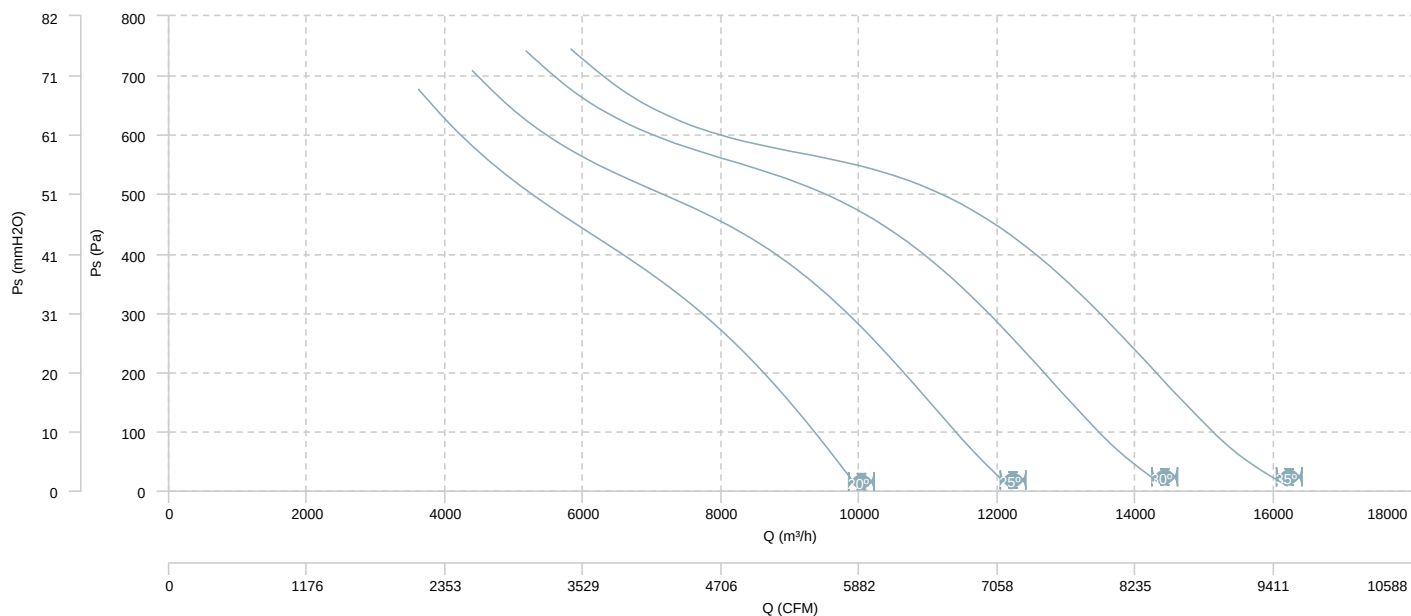


**AIR FLOW - MECHANICAL POWER (8 poles)**

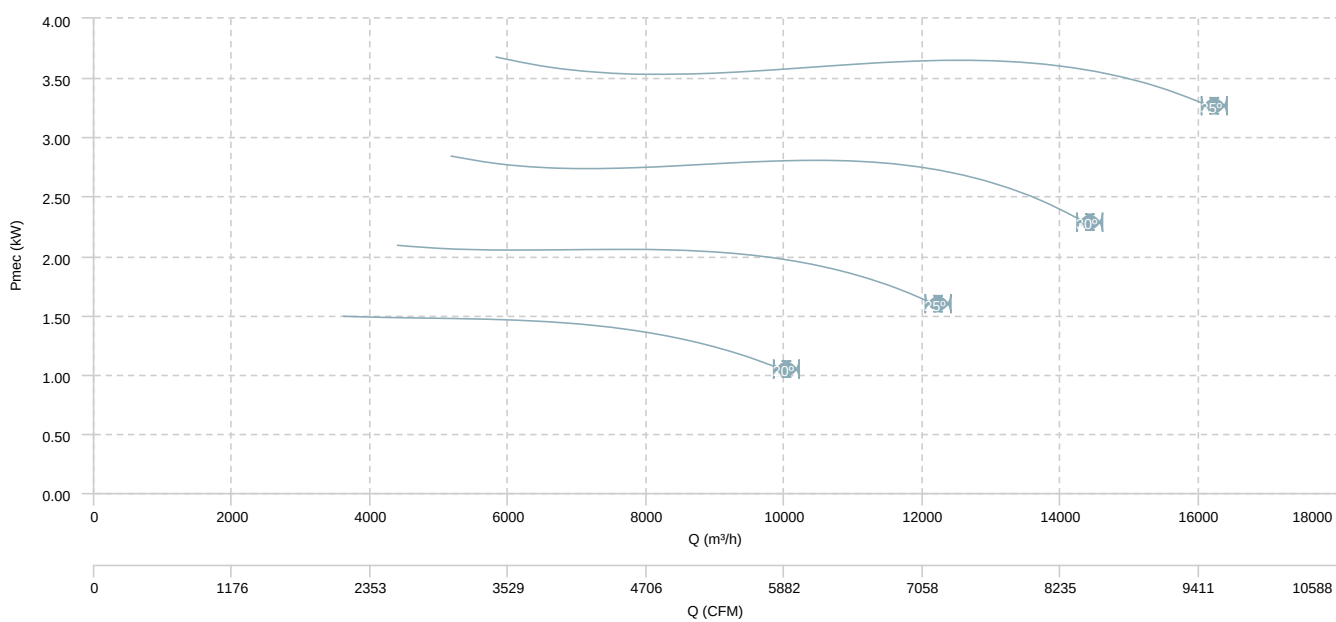


HMF 50 T2 (A8:6) F400

**AIR FLOW - PRESSURE**

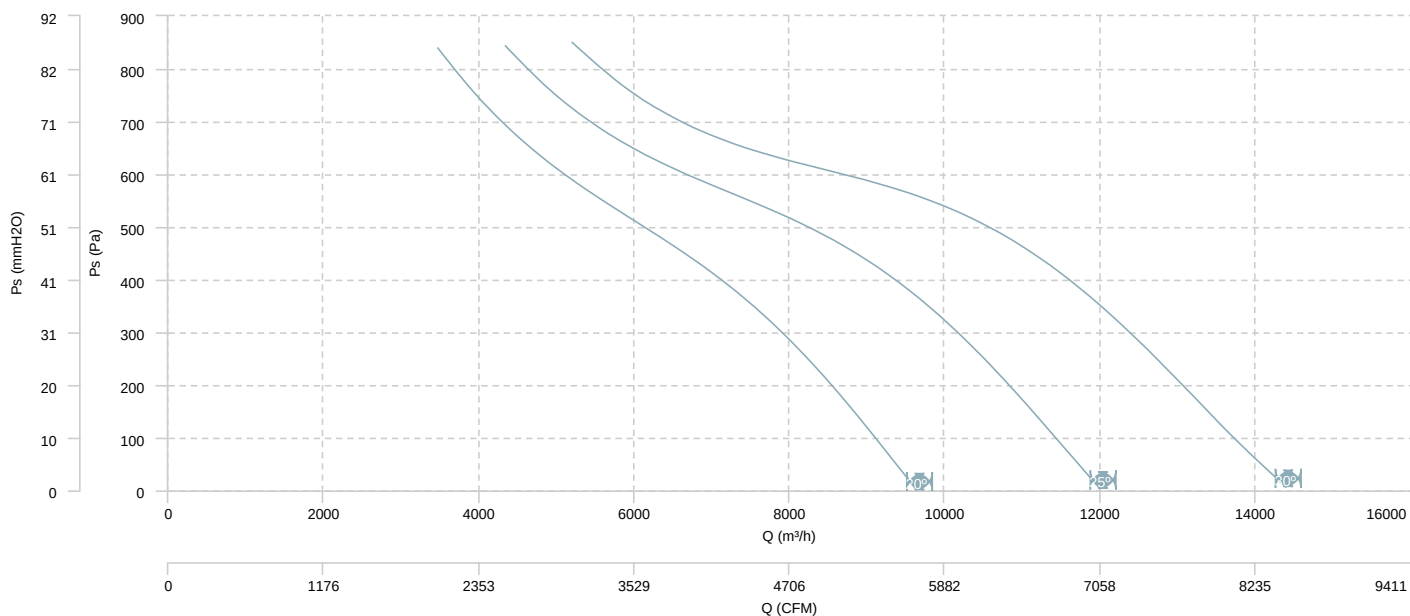


**AIR FLOW - MECHANICAL POWER**

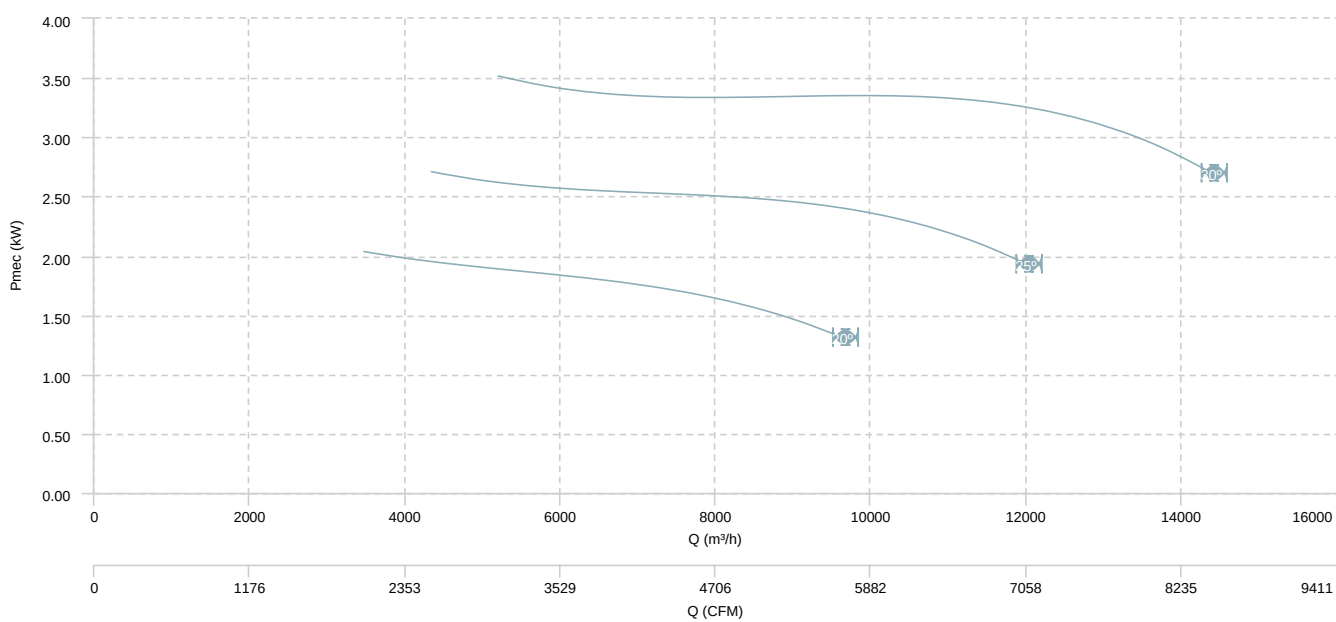


HMF 50 T2 (A8:9) F400

## AIR FLOW - PRESSURE



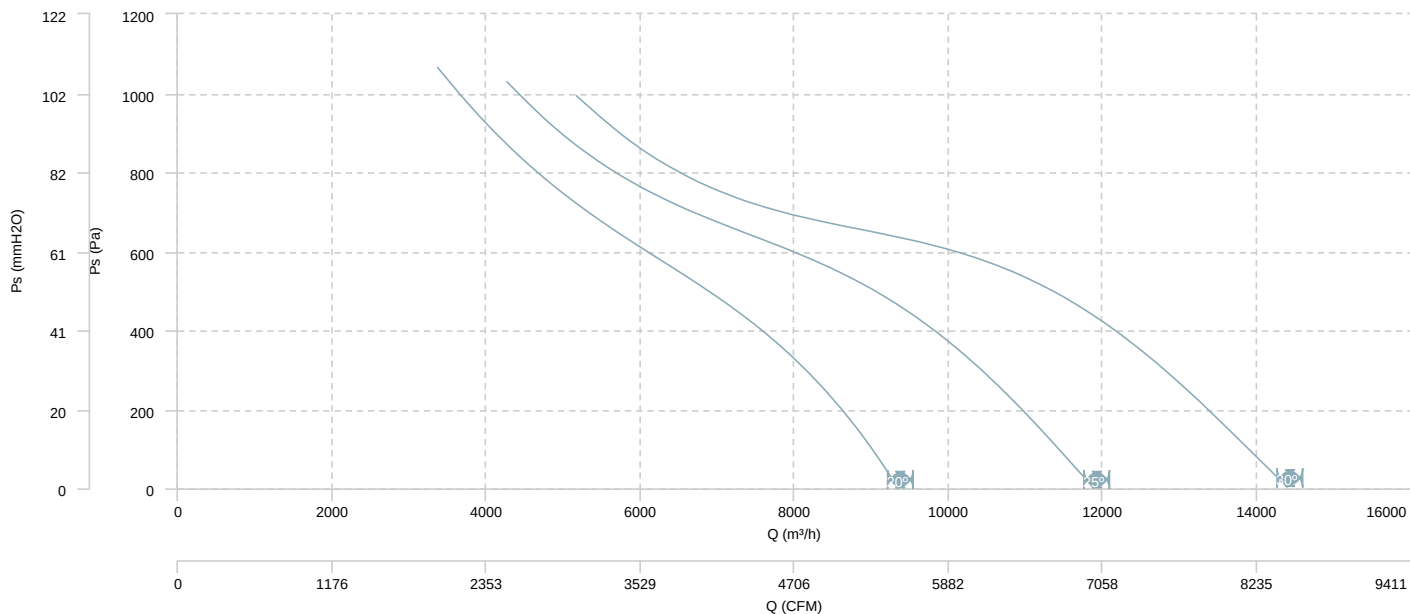
## AIR FLOW - MECHANICAL POWER



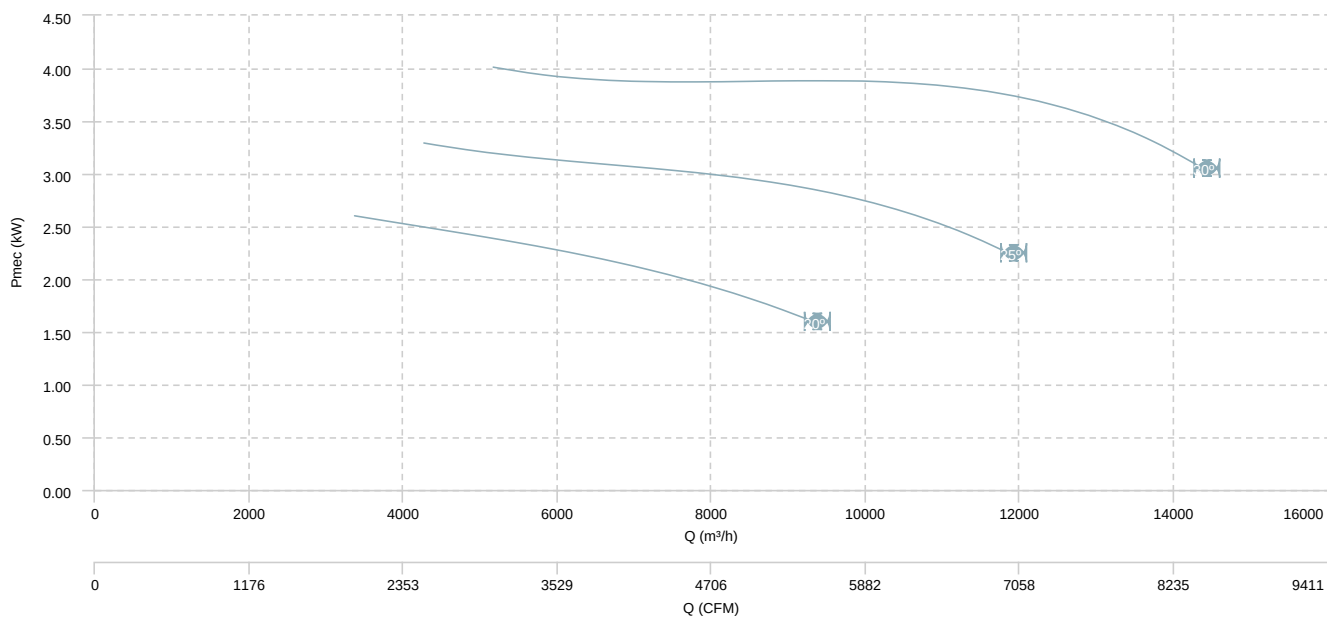


HMF 50 T2 (A8:12) F400

## AIR FLOW - PRESSURE

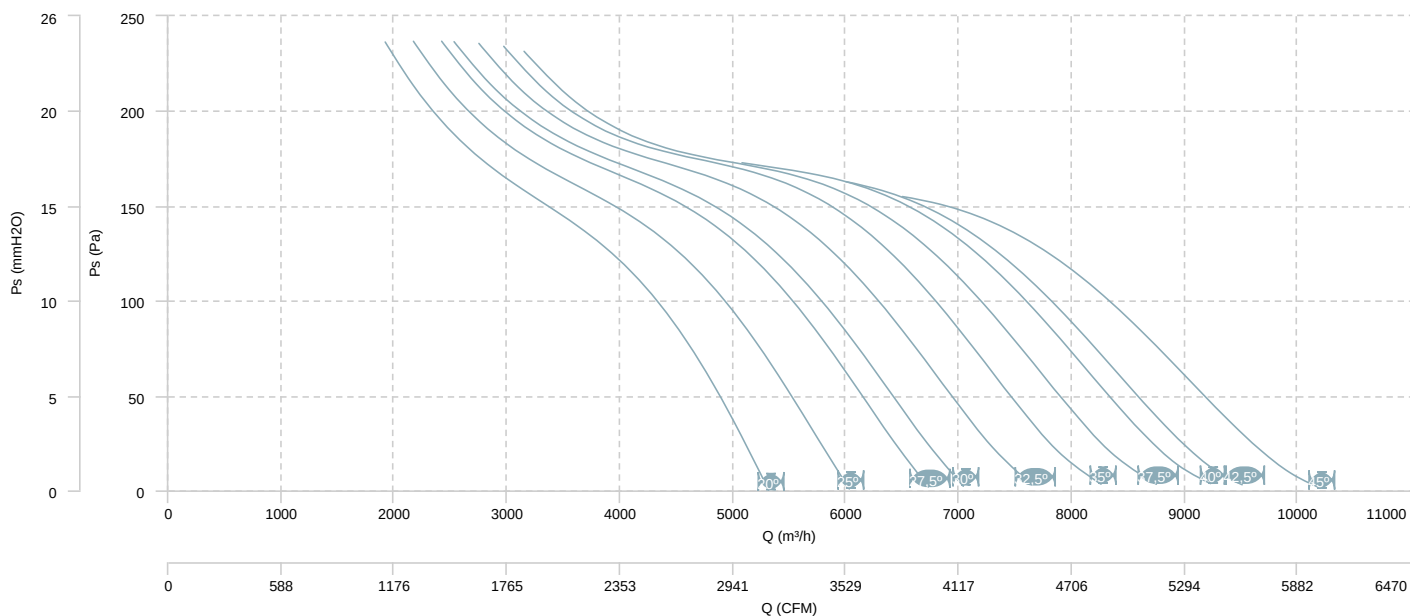


## AIR FLOW - MECHANICAL POWER

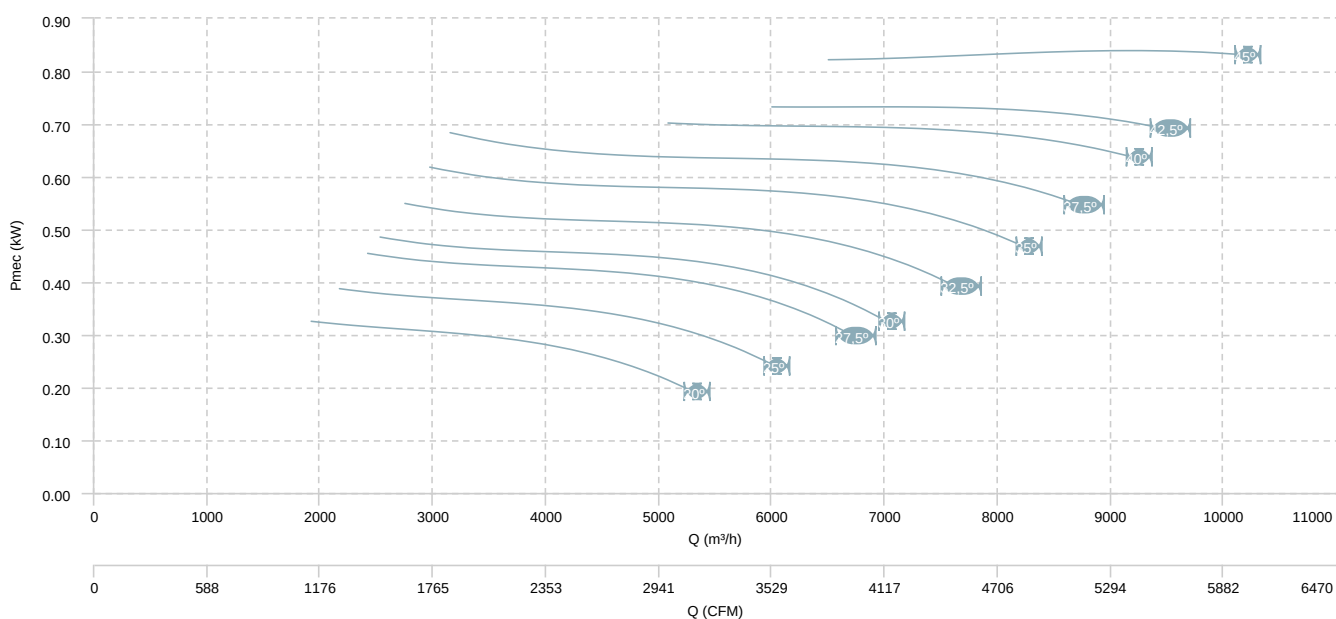


HMF 50 T4 (A5:6) F400

**AIR FLOW - PRESSURE**

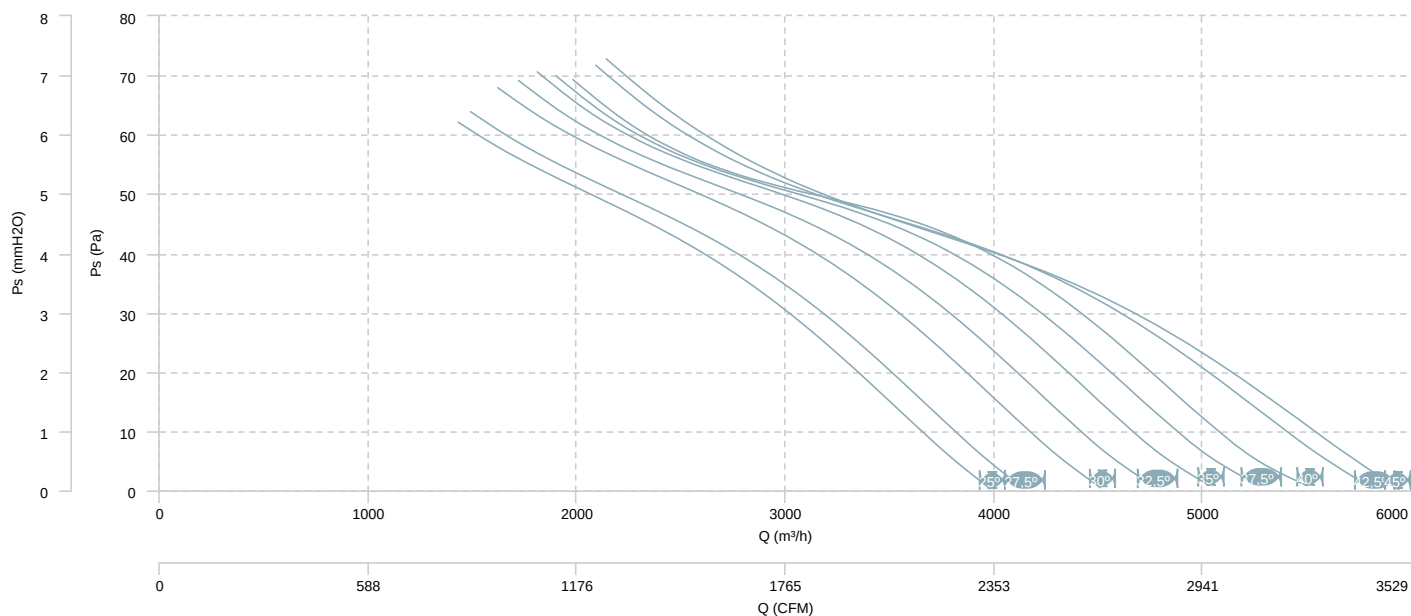


**AIR FLOW - MECHANICAL POWER**

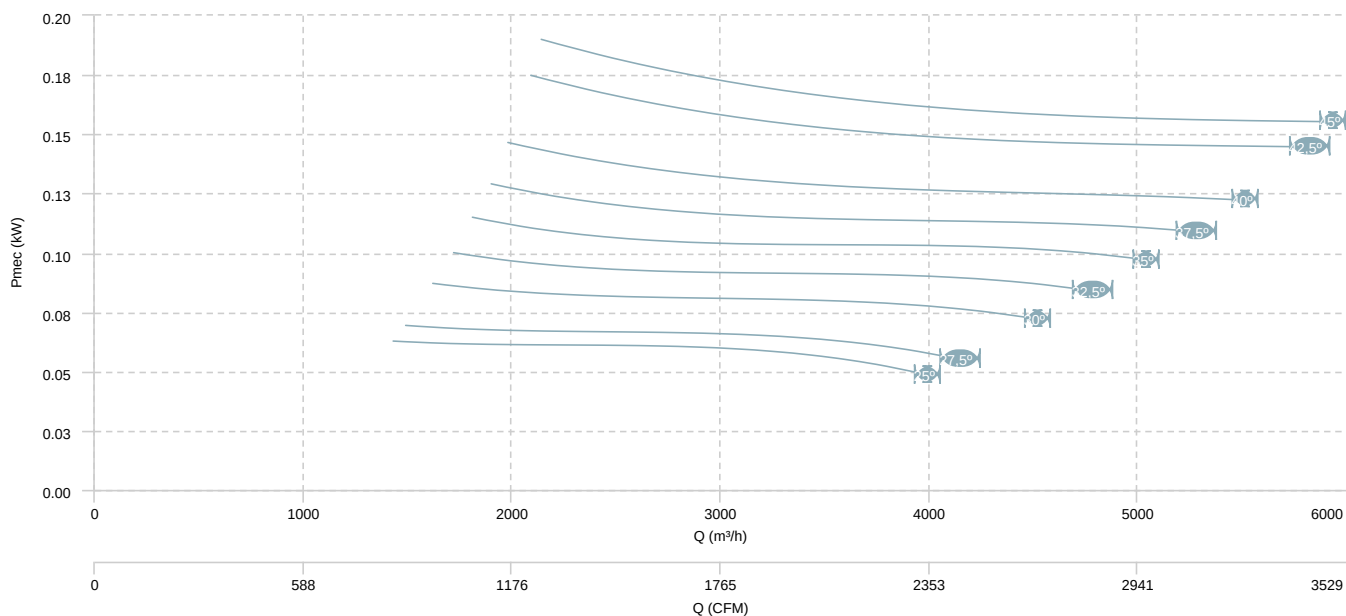


HMF 50 T6 (A5:6) F400

**AIR FLOW - PRESSURE**

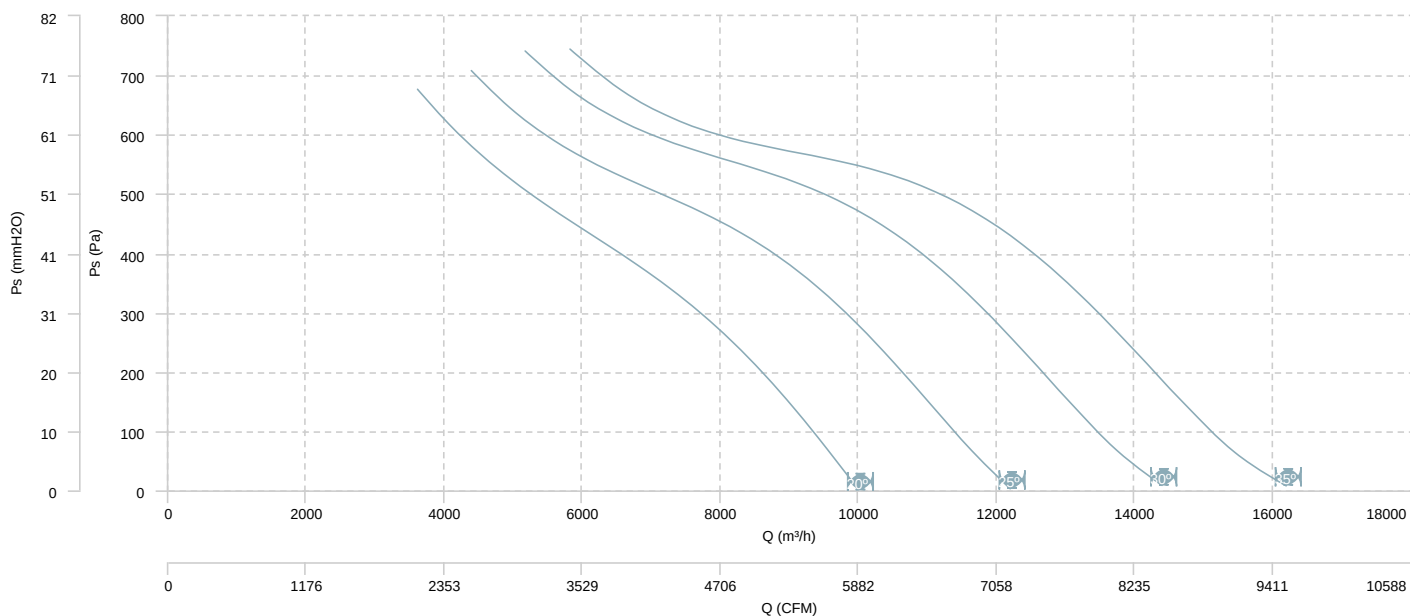


**AIR FLOW - MECHANICAL POWER**

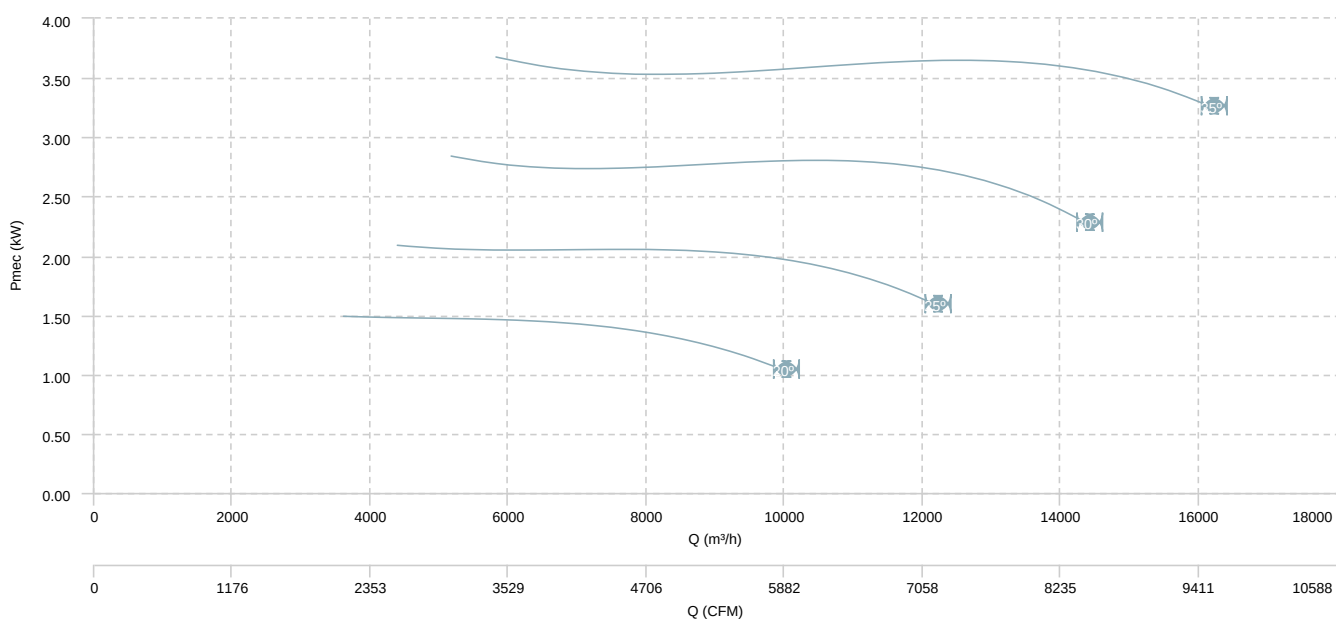


HMF 50 T2/T4 (A8:6) F400

**AIR FLOW - PRESSURE (2 poles)**

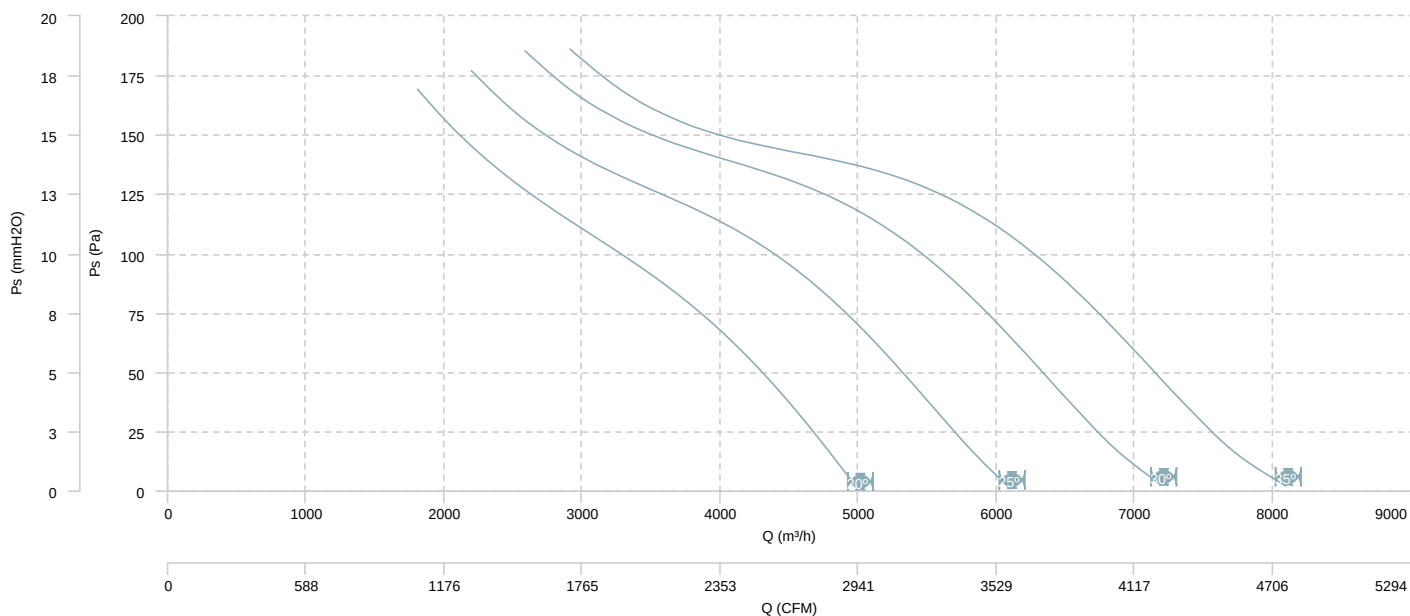


**AIR FLOW - MECHANICAL POWER (2 poles)**

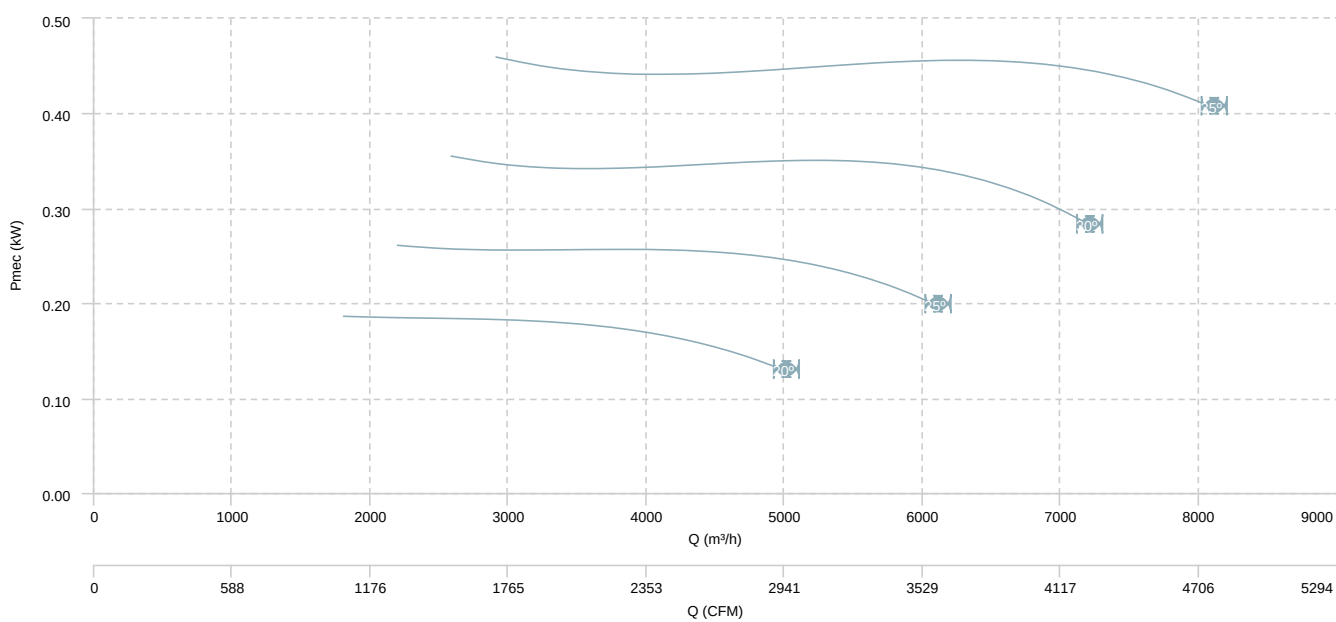


HMF 50 T2/T4 (A8:6) F400

**AIR FLOW - PRESSURE (4 poles)**

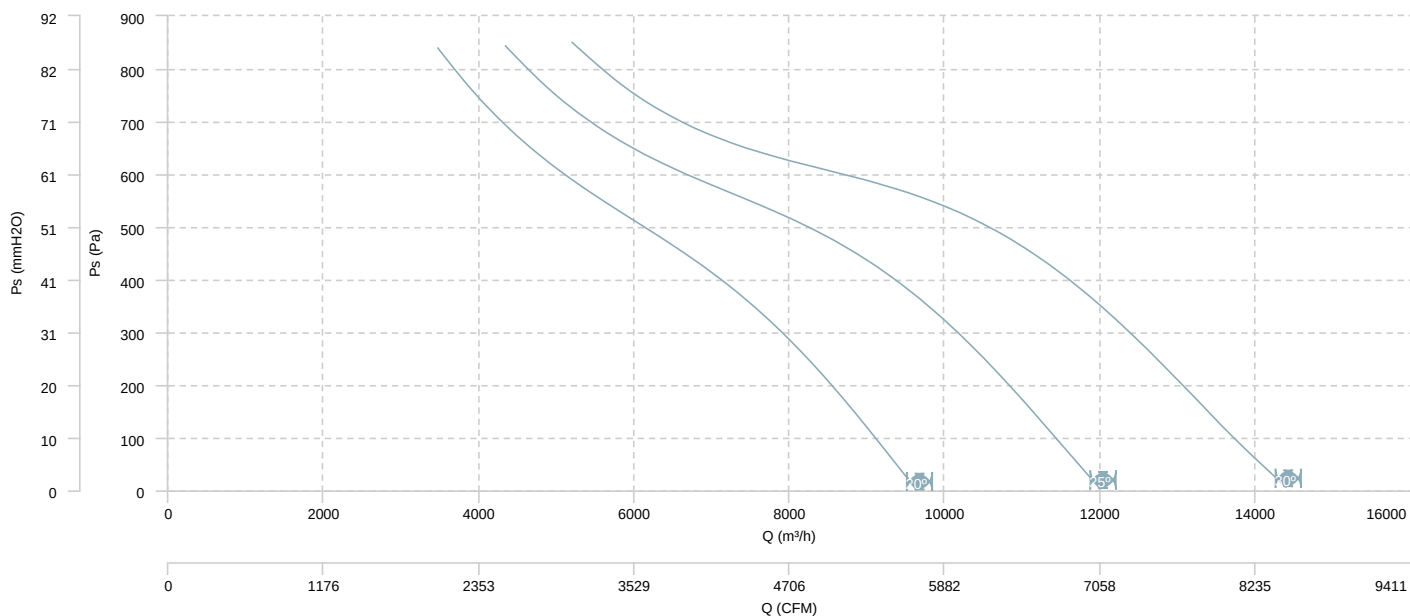


**AIR FLOW - MECHANICAL POWER (4 poles)**

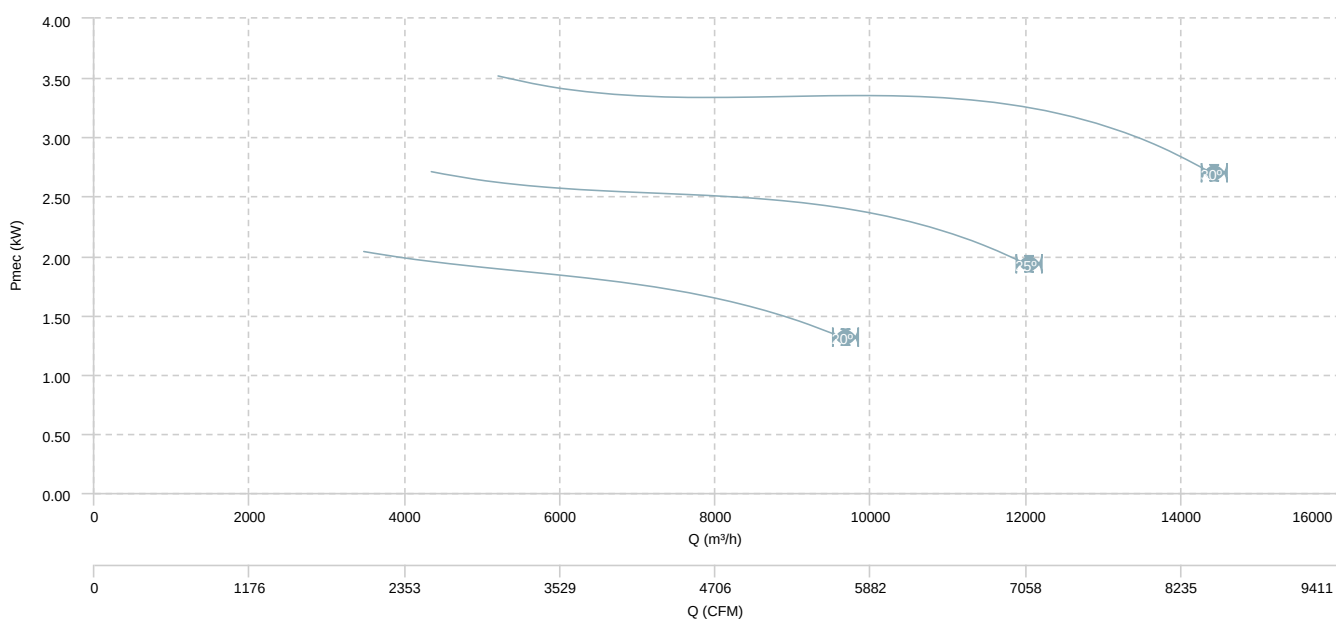


HMF 50 T2/T4 (A8:9) F400

**AIR FLOW - PRESSURE (2 poles)**

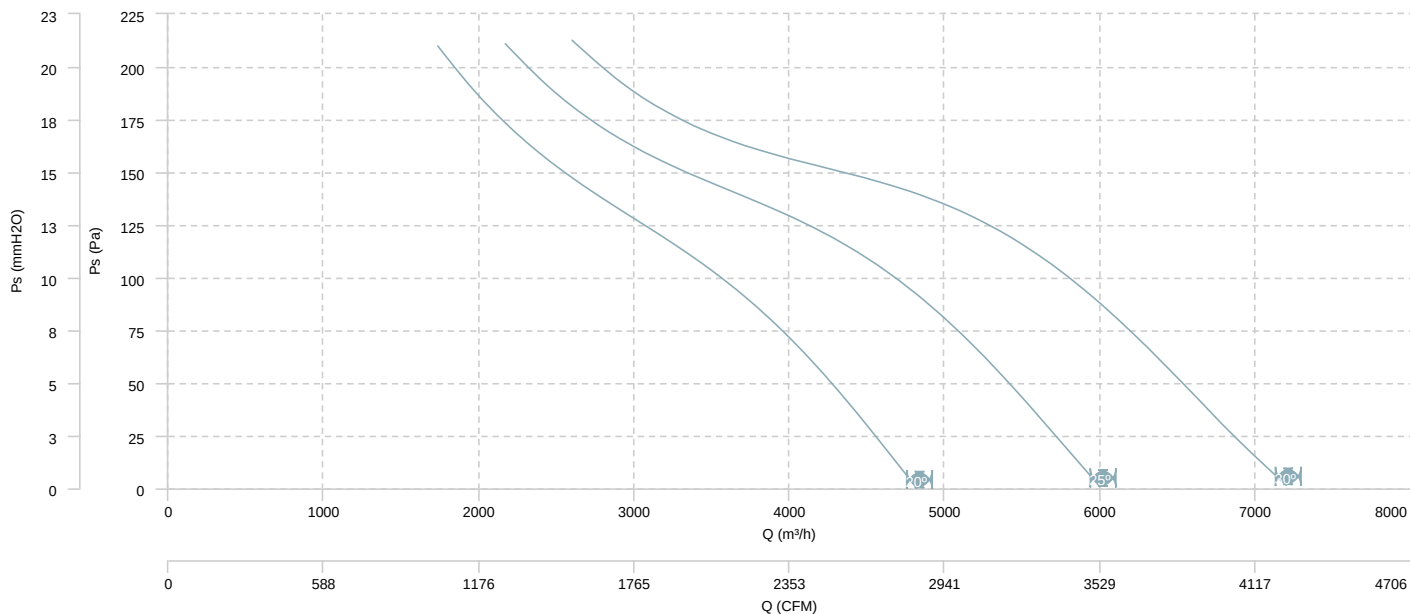


**AIR FLOW - MECHANICAL POWER (2 poles)**

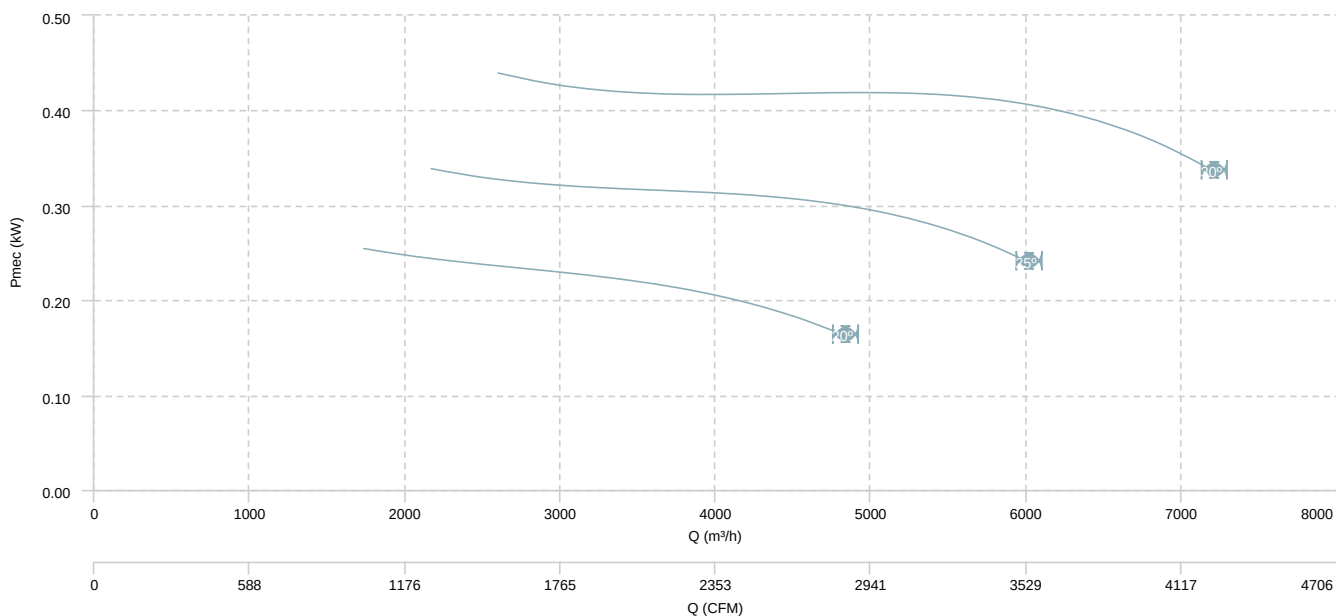


HM5 50 T2/T4 (A8:9) F400

**AIR FLOW - PRESSURE (4 poles)**

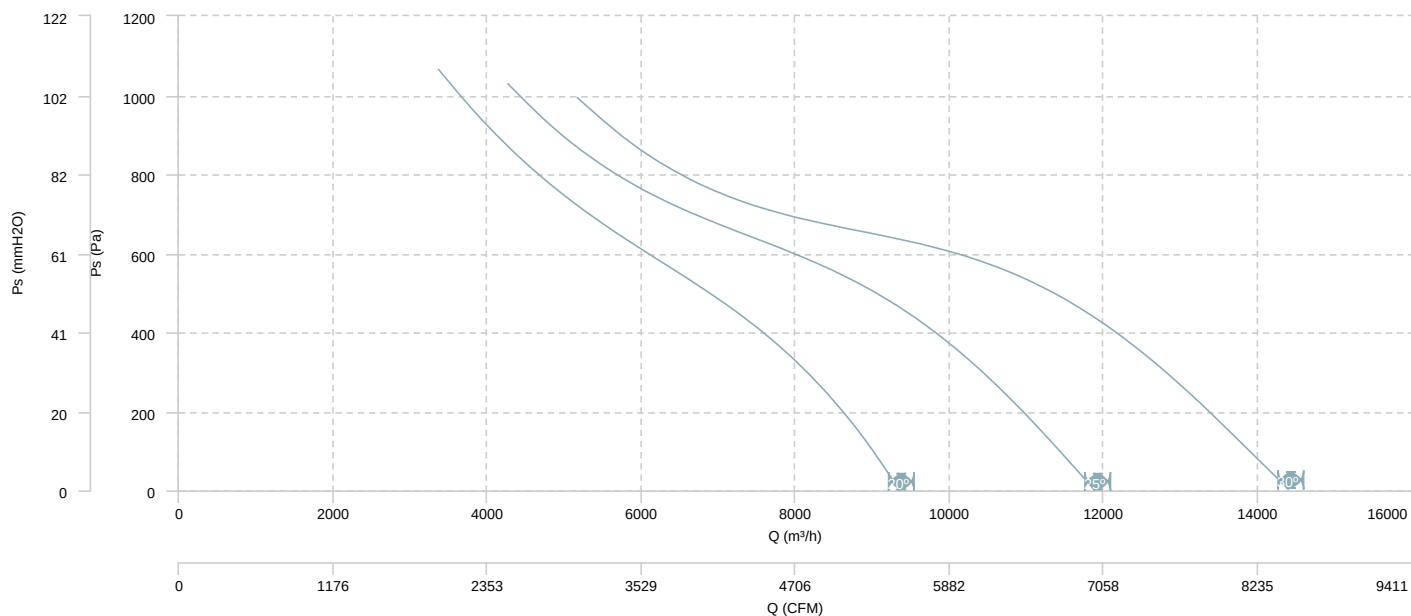


**AIR FLOW - MECHANICAL POWER (4 poles)**

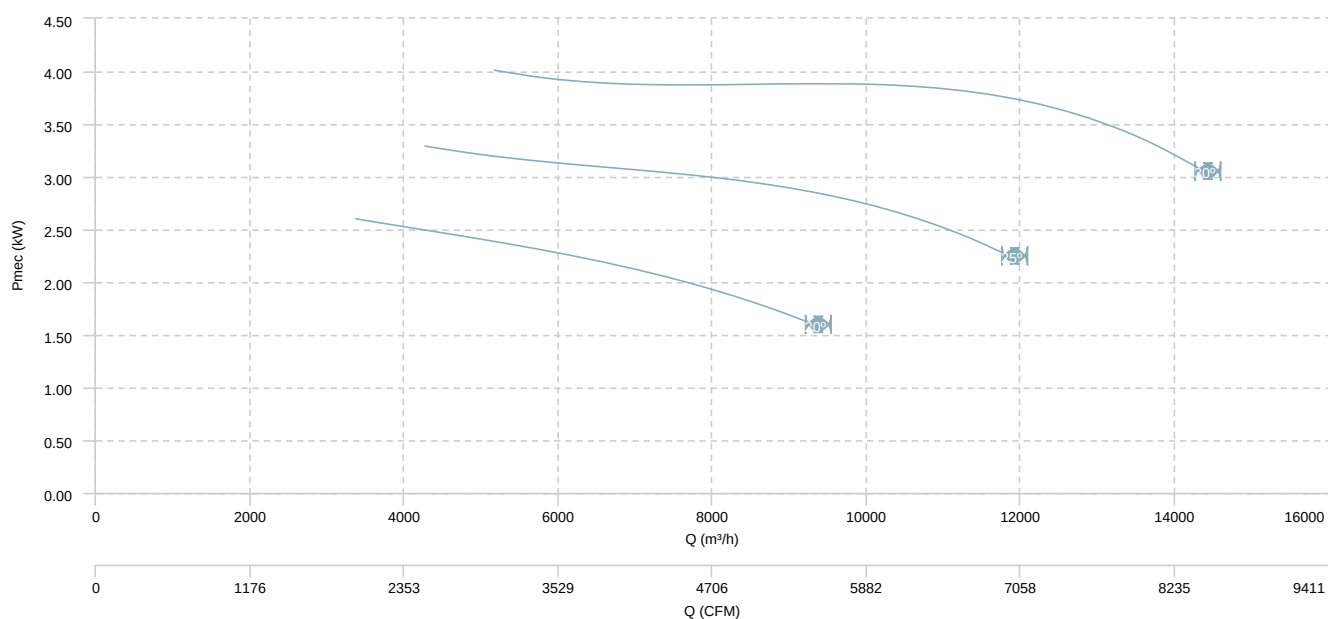


HMF 50 T2/T4 (A8:12) F400

**AIR FLOW - PRESSURE (2 poles)**



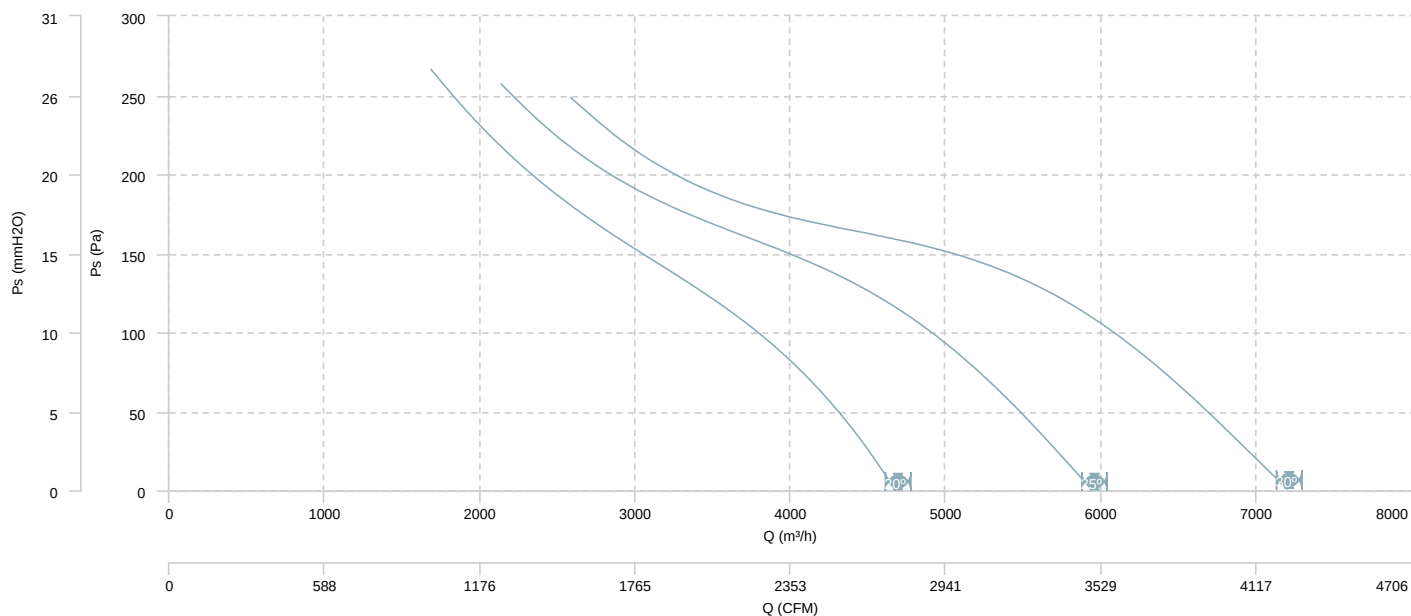
**AIR FLOW - MECHANICAL POWER (2 poles)**



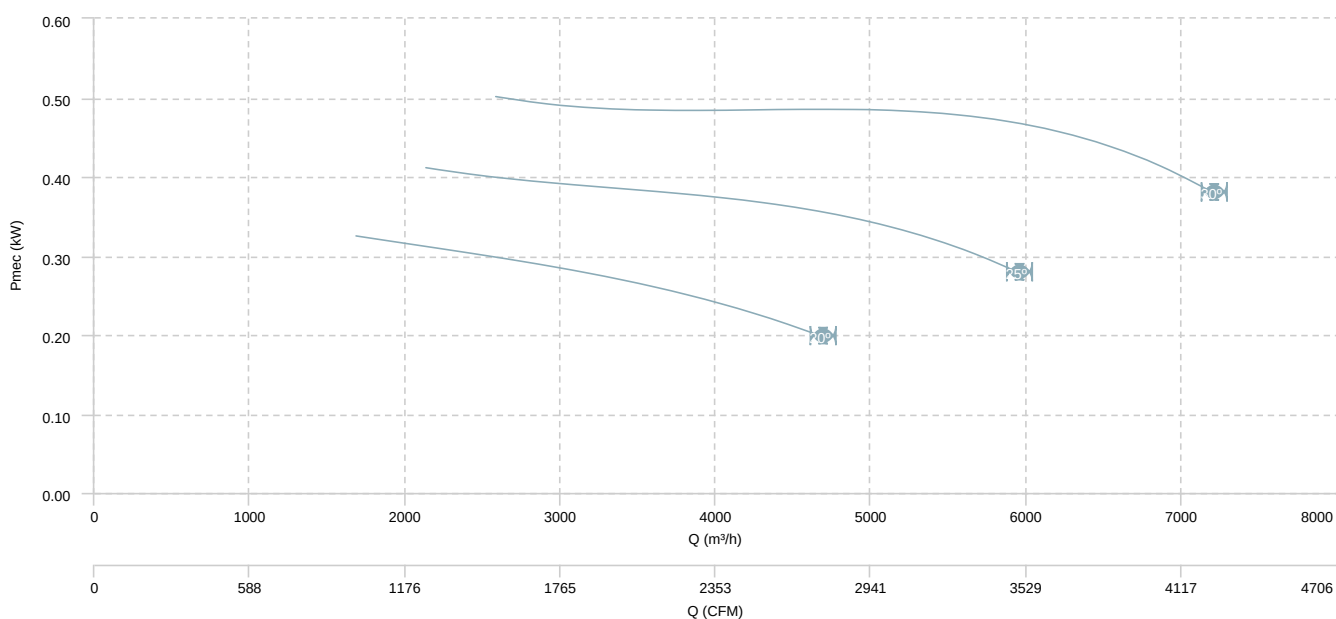


HMF 50 T2/T4 (A8:12) F400

**AIR FLOW - PRESSURE (4 poles)**

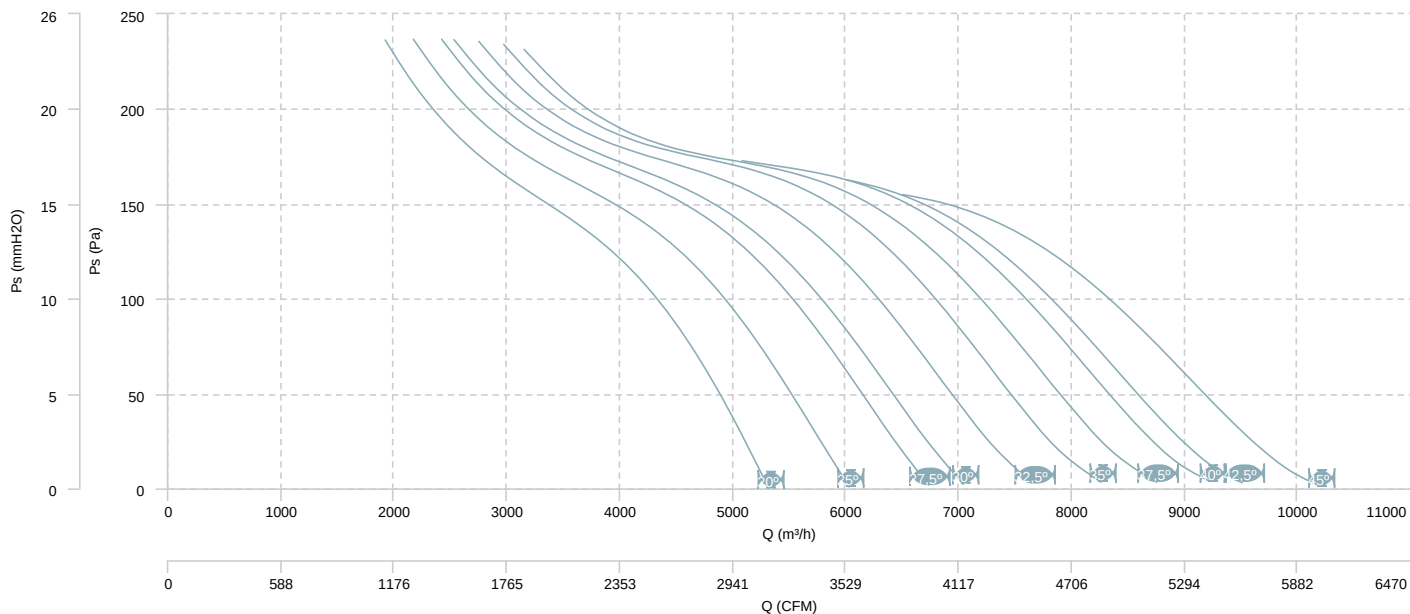


**AIR FLOW - MECHANICAL POWER (4 poles)**

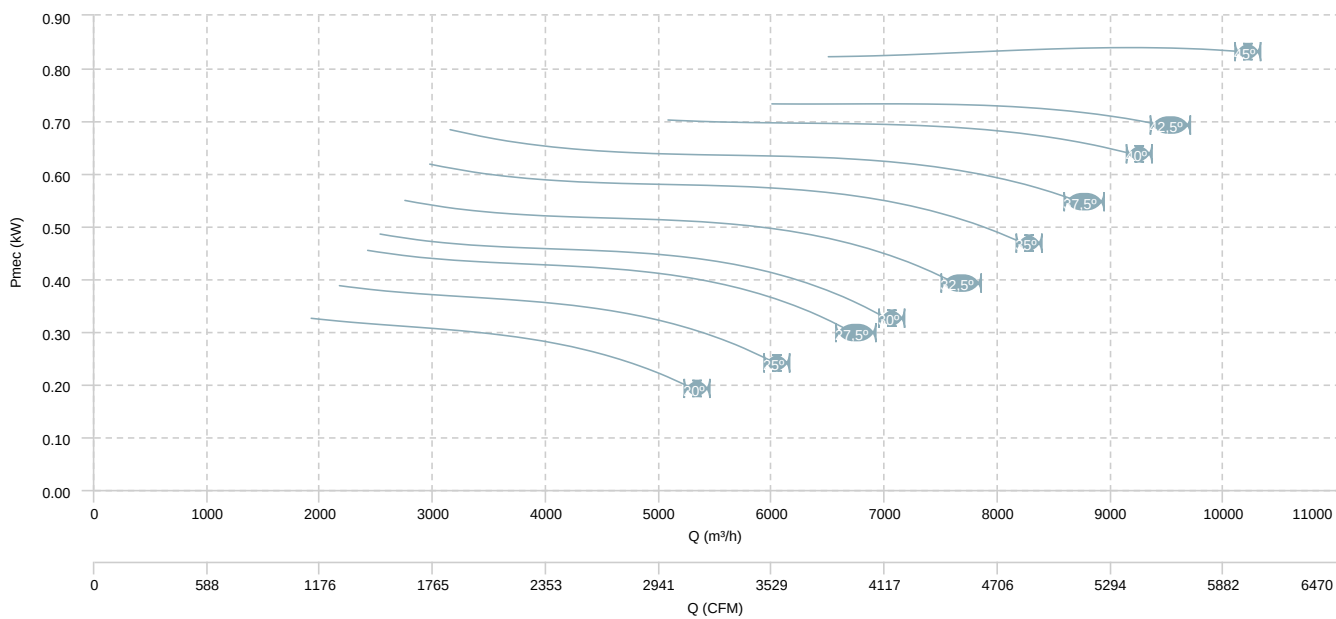


HMF 50 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

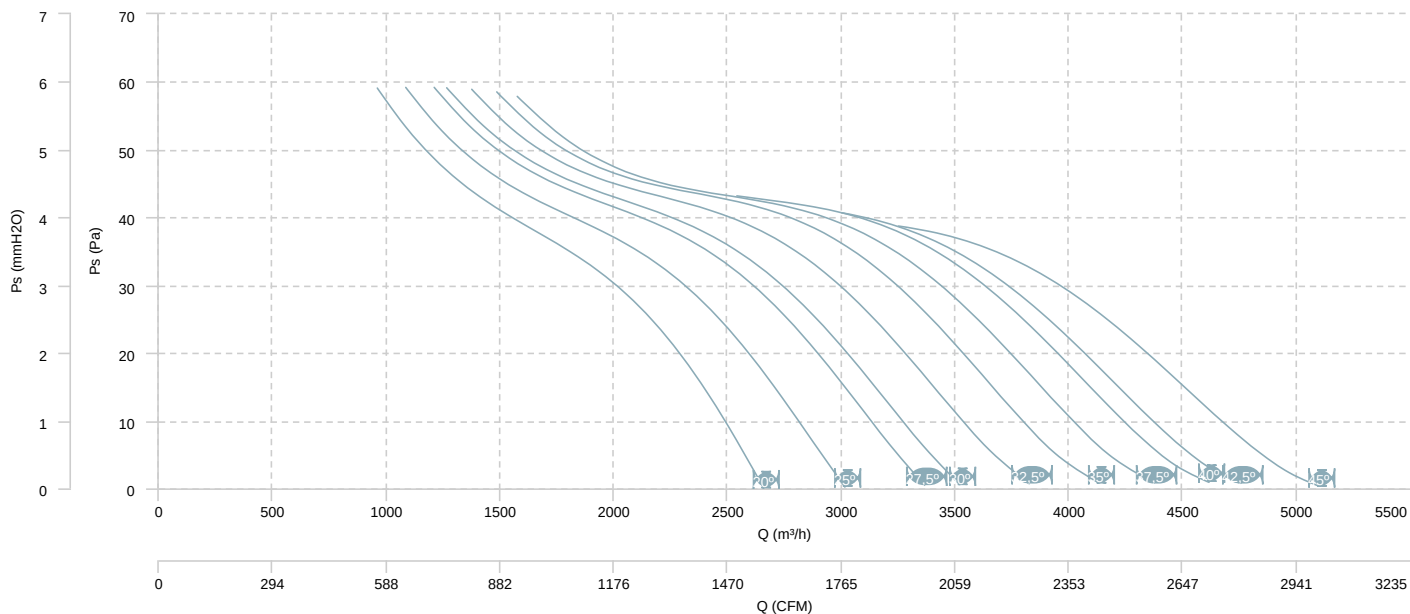


**AIR FLOW - MECHANICAL POWER (4 poles)**

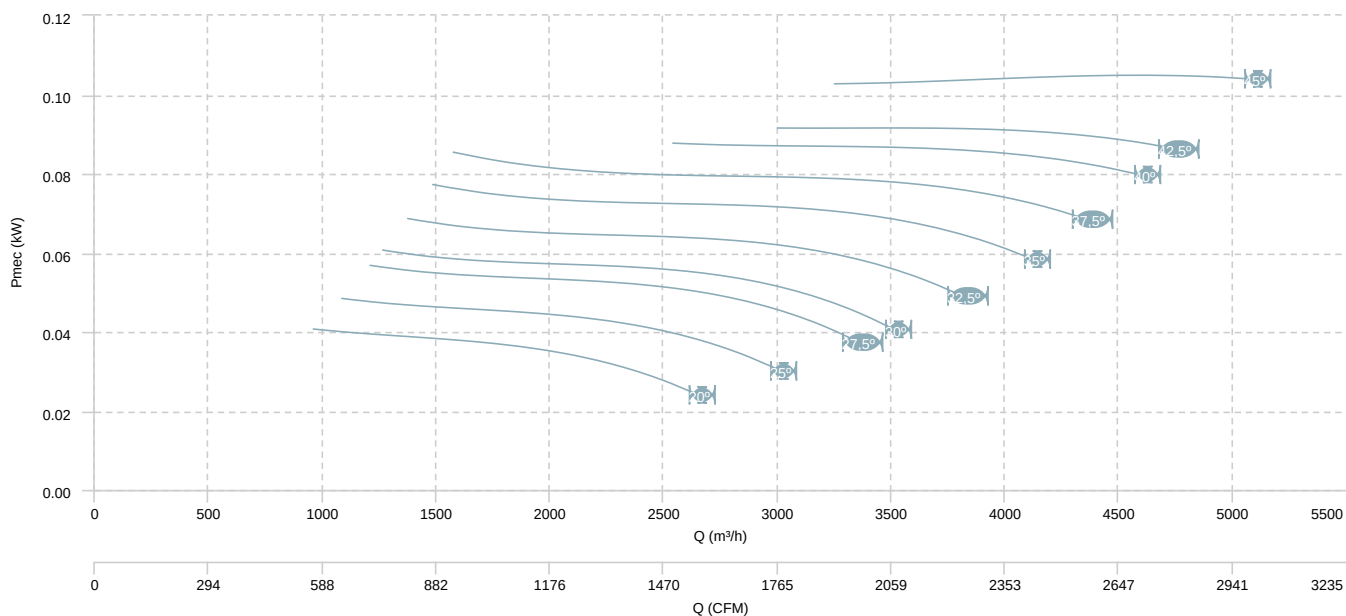


**HMF 50 T4/T8 (A5:6) F400**

**AIR FLOW - PRESSURE (8 poles)**

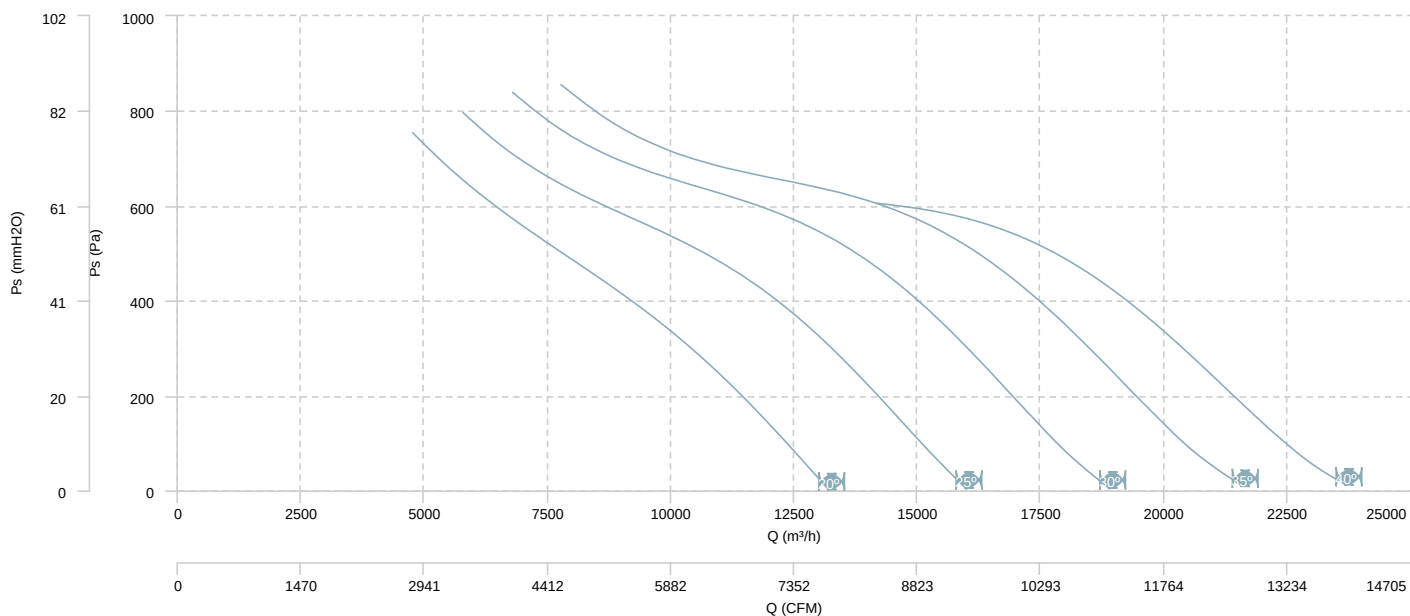


**AIR FLOW - MECHANICAL POWER (8 poles)**

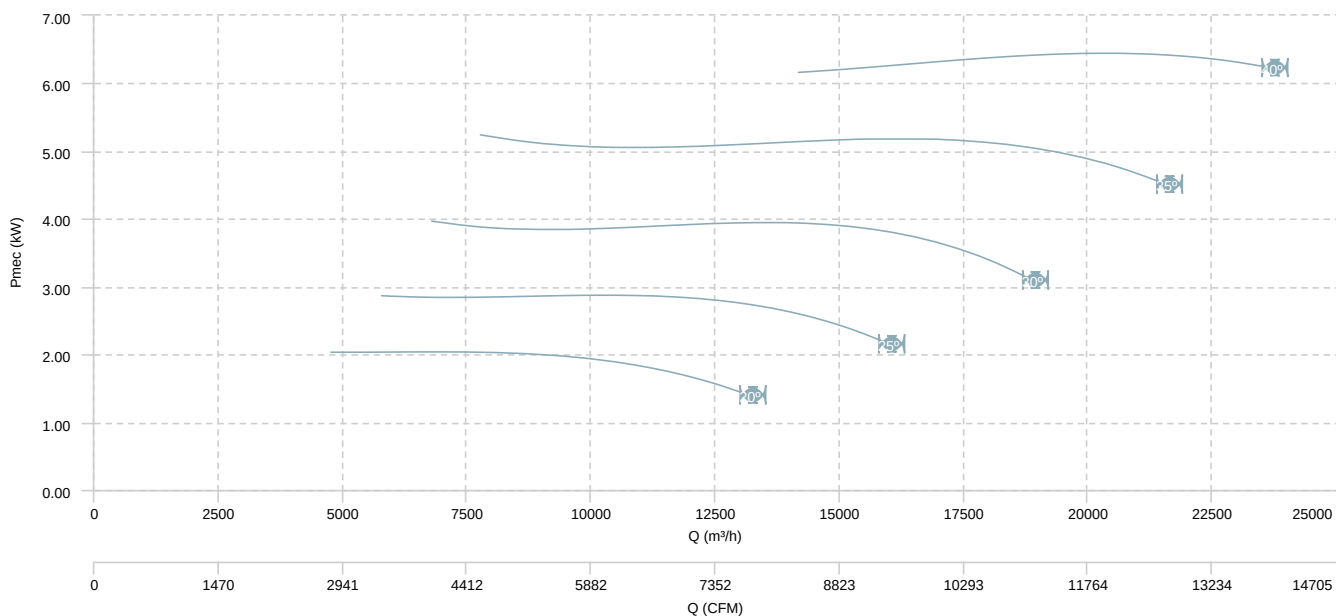


HMF 56 T2 (A8:6) F400

**AIR FLOW - PRESSURE**

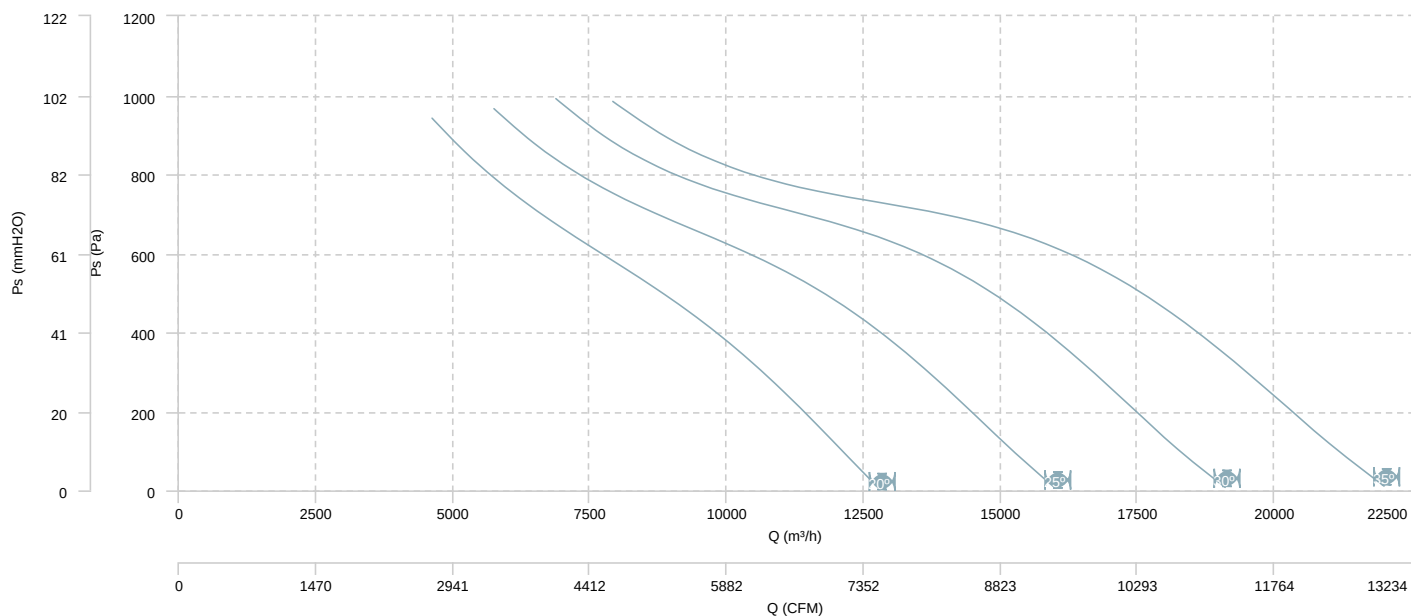


**AIR FLOW - MECHANICAL POWER**

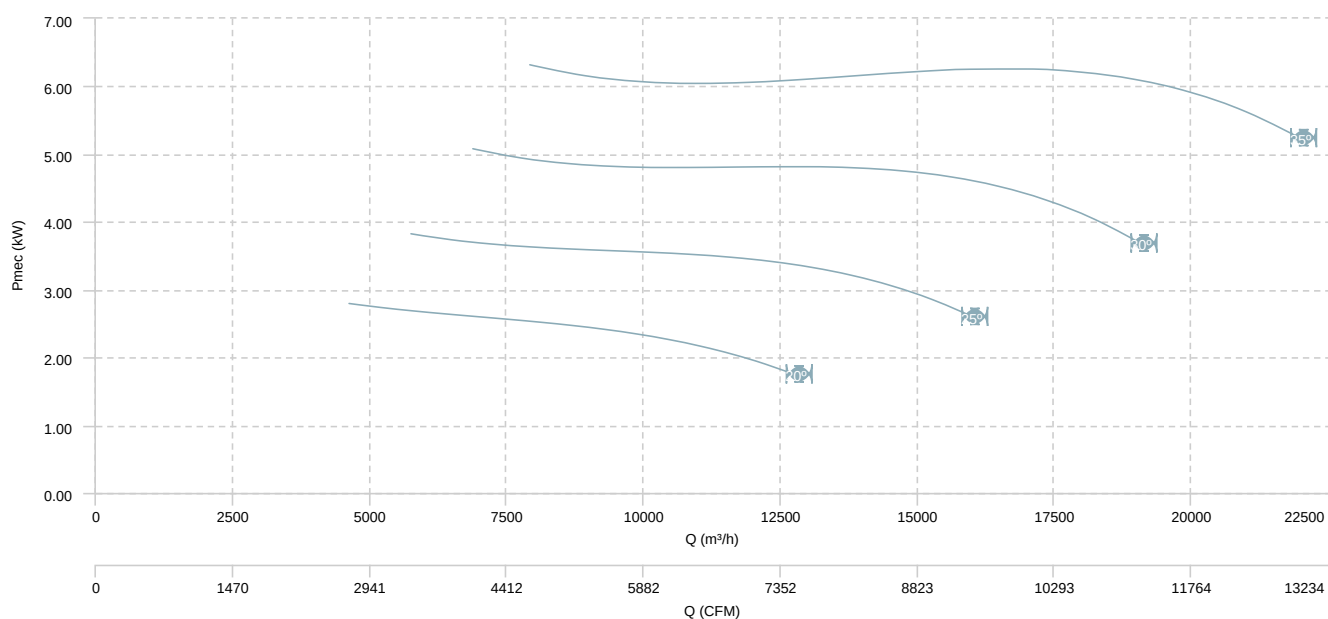


HMF 56 T2 (A8:9) F400

**AIR FLOW - PRESSURE**

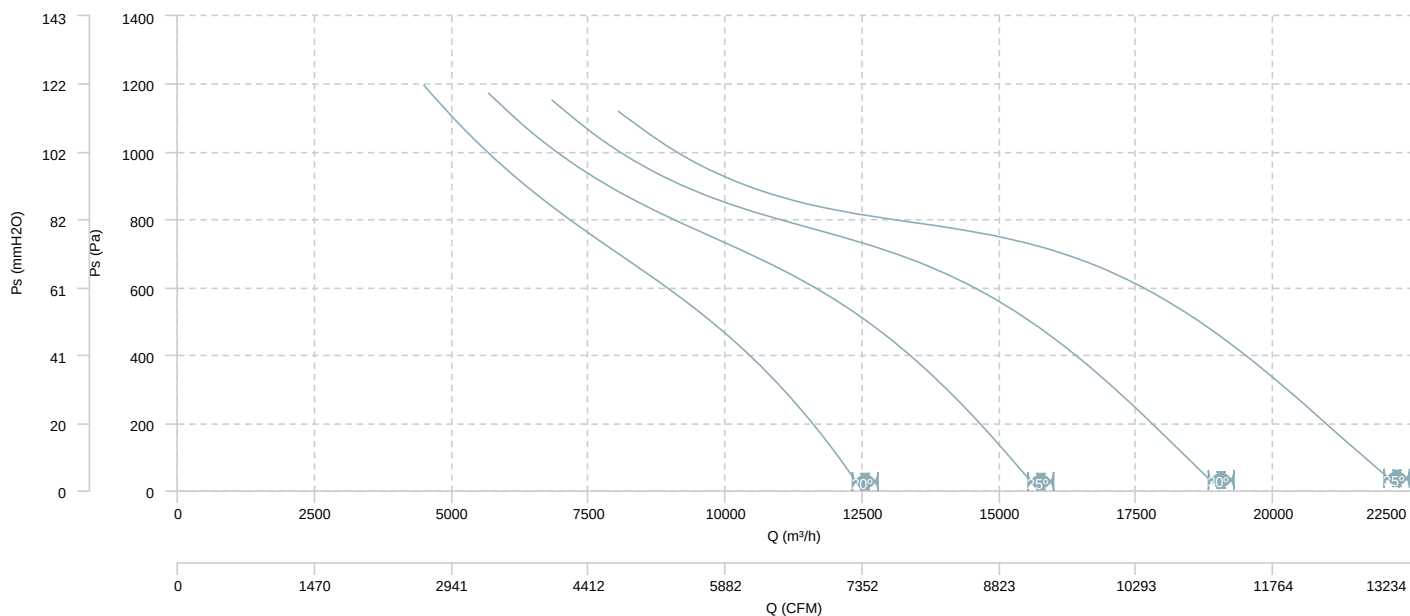


**AIR FLOW - MECHANICAL POWER**

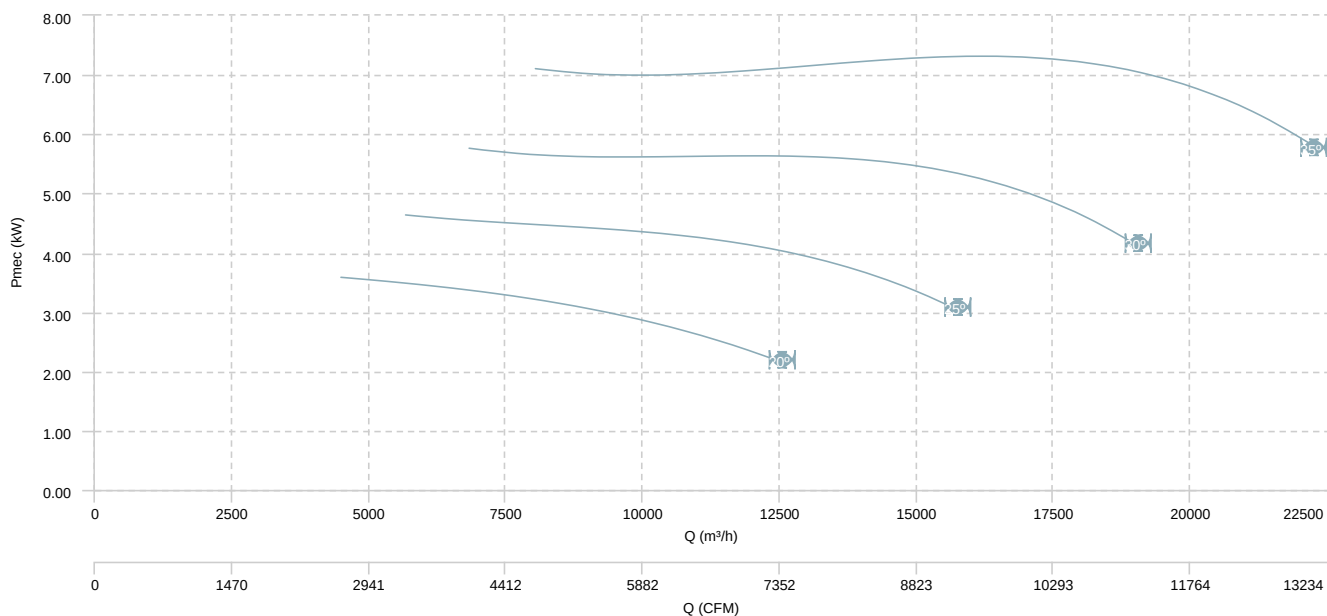


HMF 56 T2 (A8:12) F400

**AIR FLOW - PRESSURE**

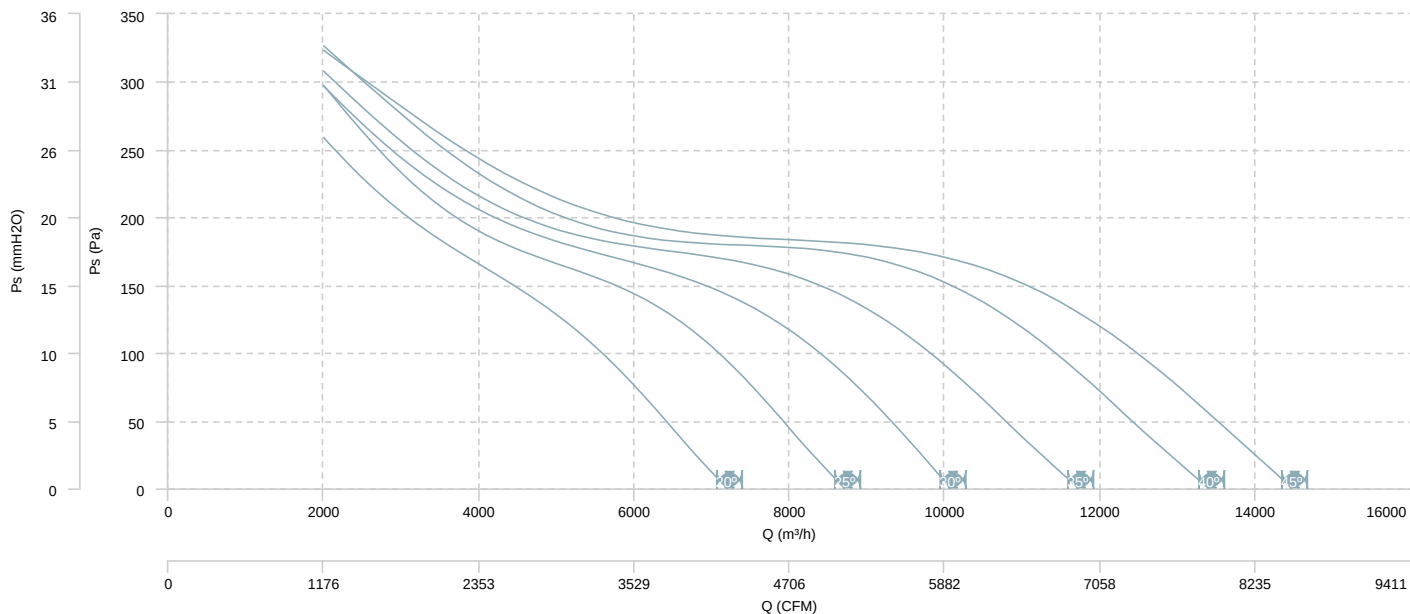


**AIR FLOW - MECHANICAL POWER**

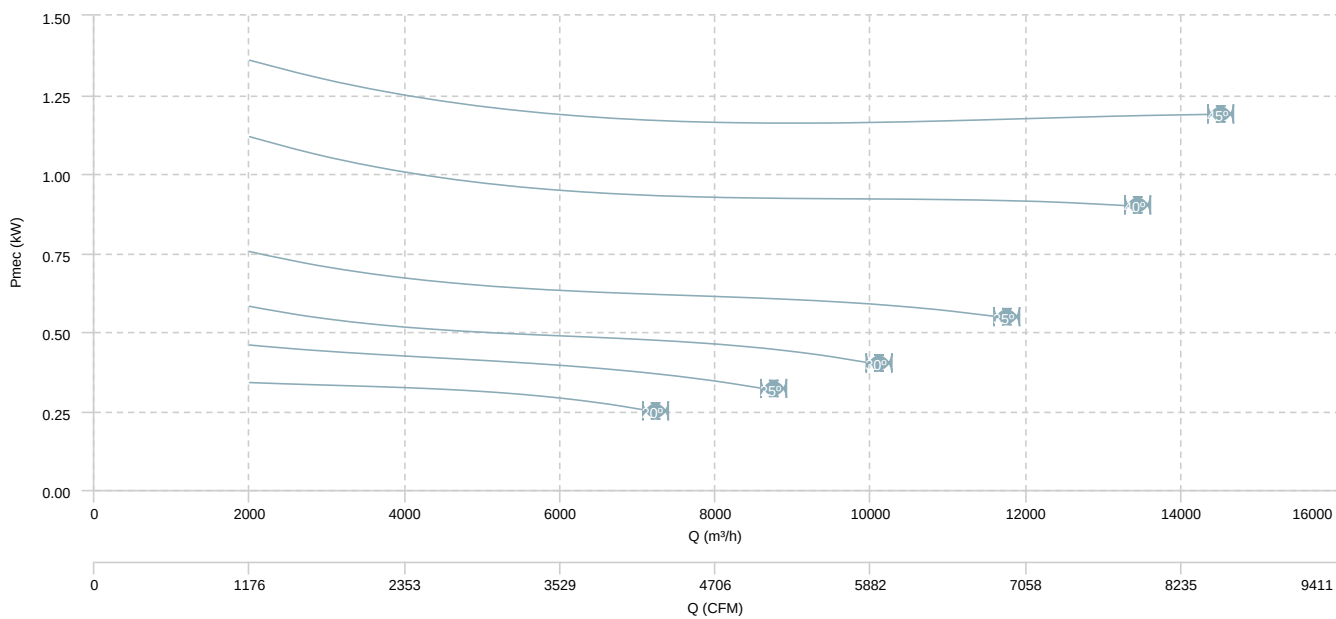


HMF 56 T4 (A5:6) F400

## AIR FLOW - PRESSURE

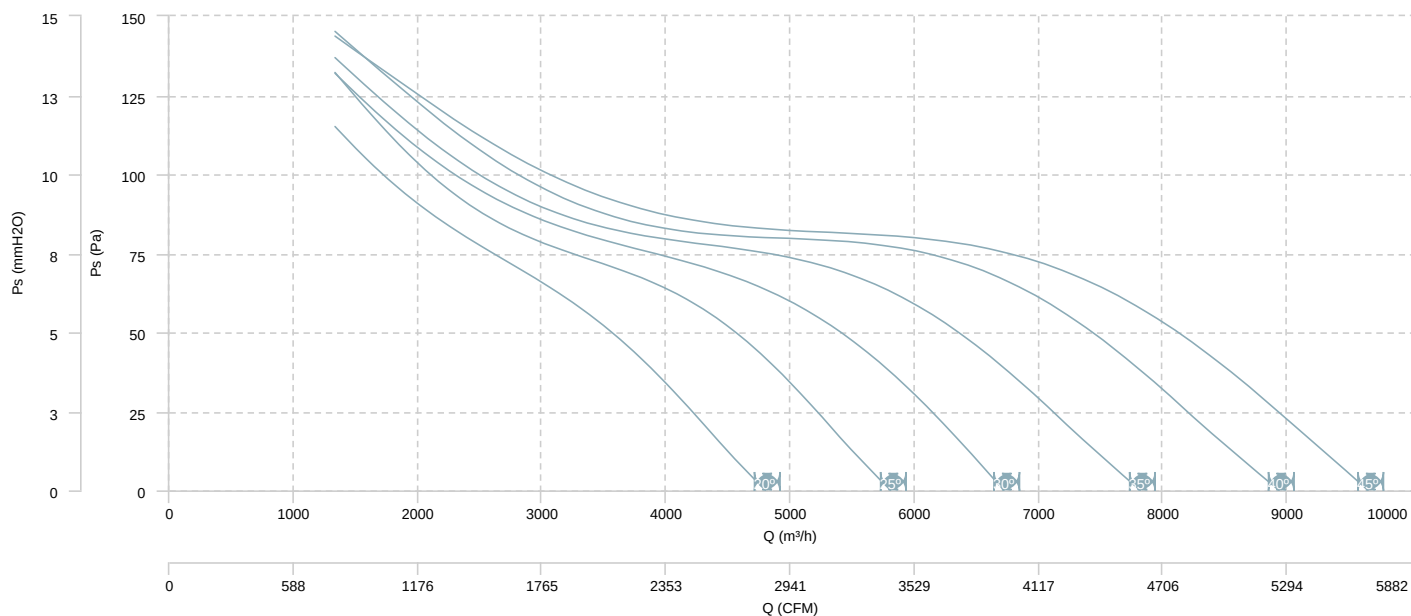


## AIR FLOW - MECHANICAL POWER

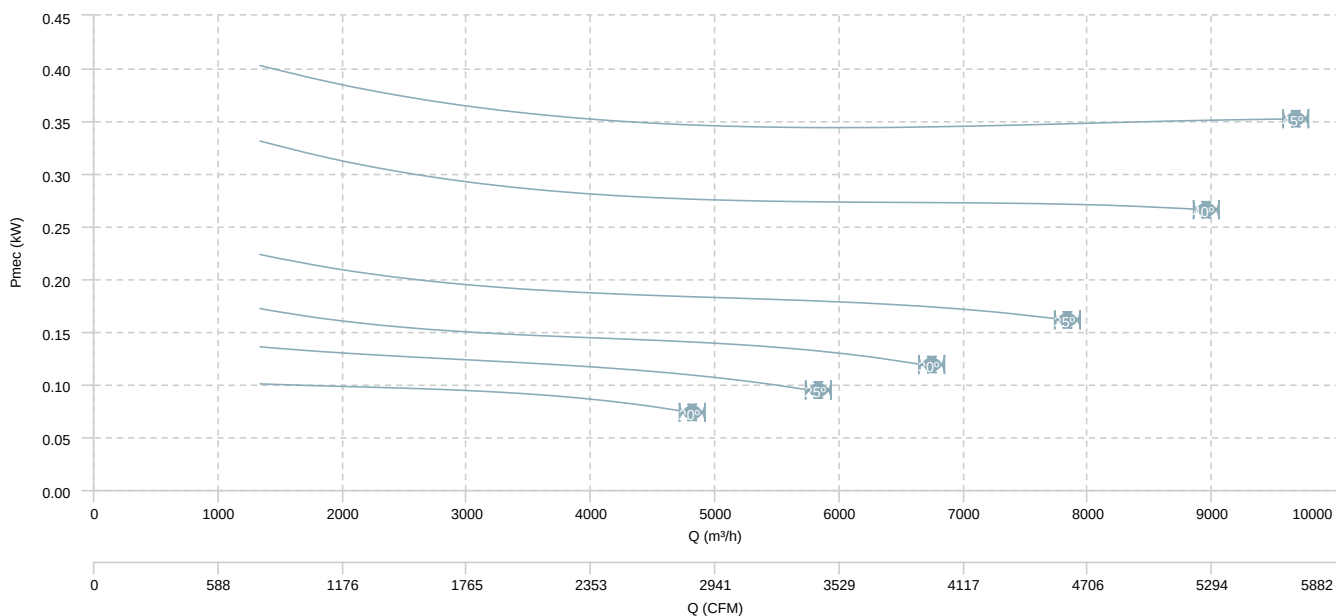


HMF 56 T6 (A5:6) F400

## AIR FLOW - PRESSURE



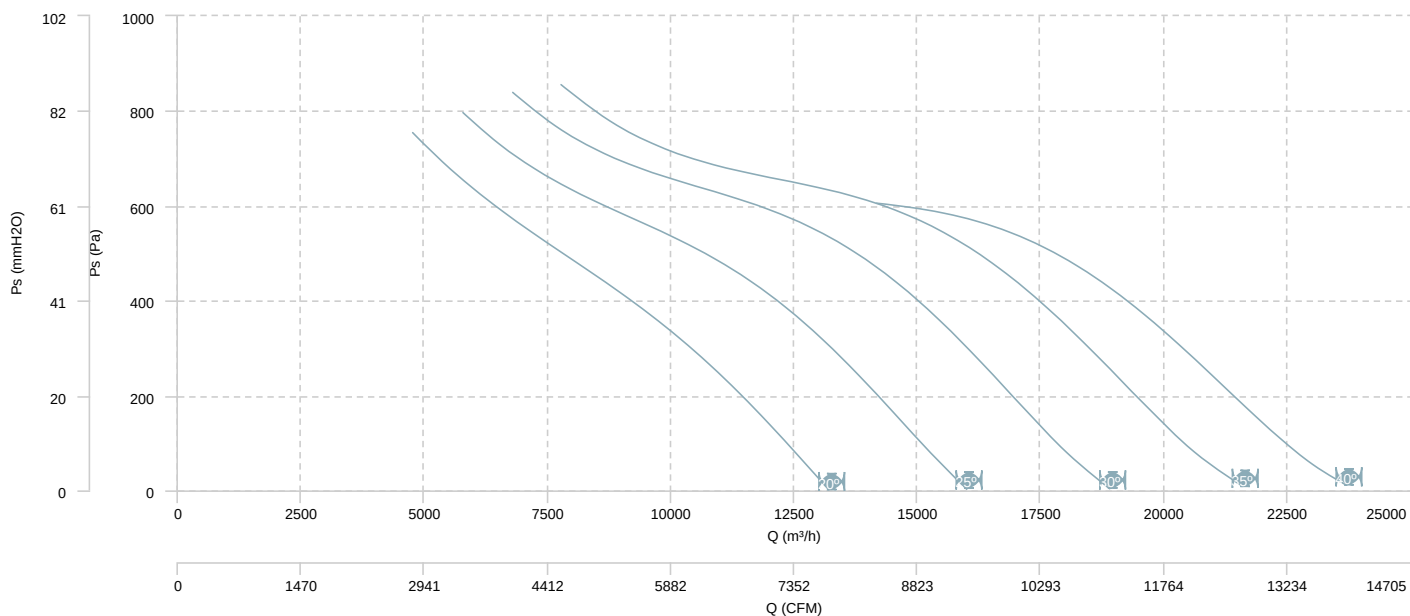
## AIR FLOW - MECHANICAL POWER



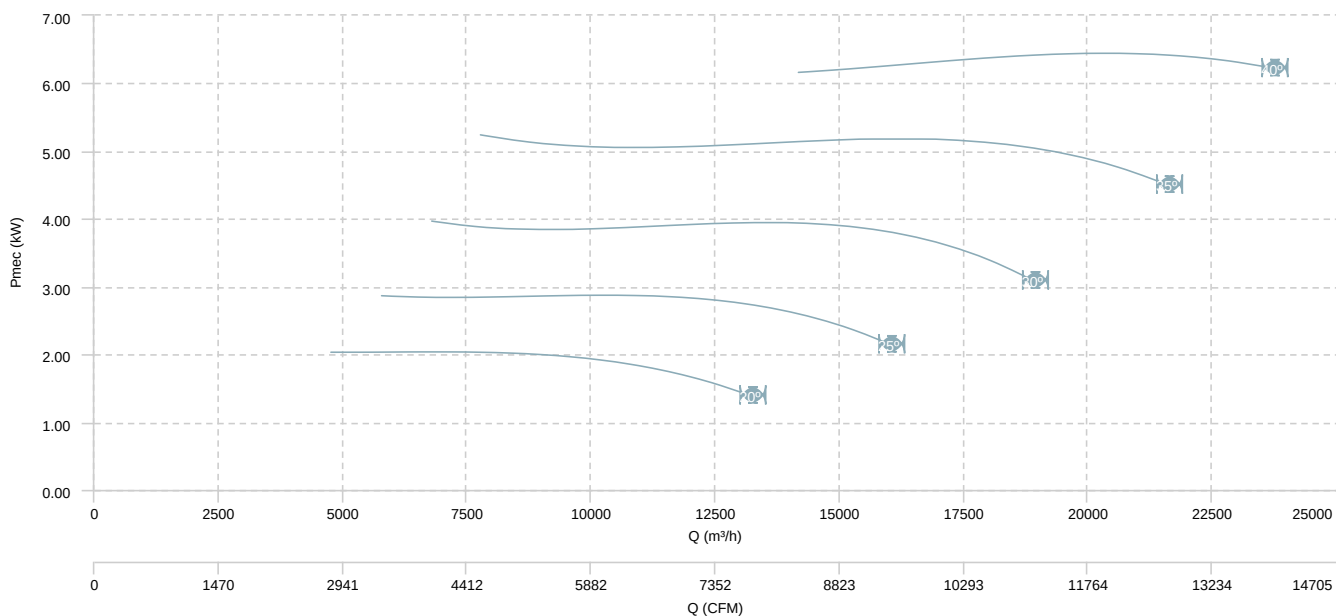


HM5 56 T2/T4 (A8:6) F400

**AIR FLOW - PRESSURE (2 poles)**

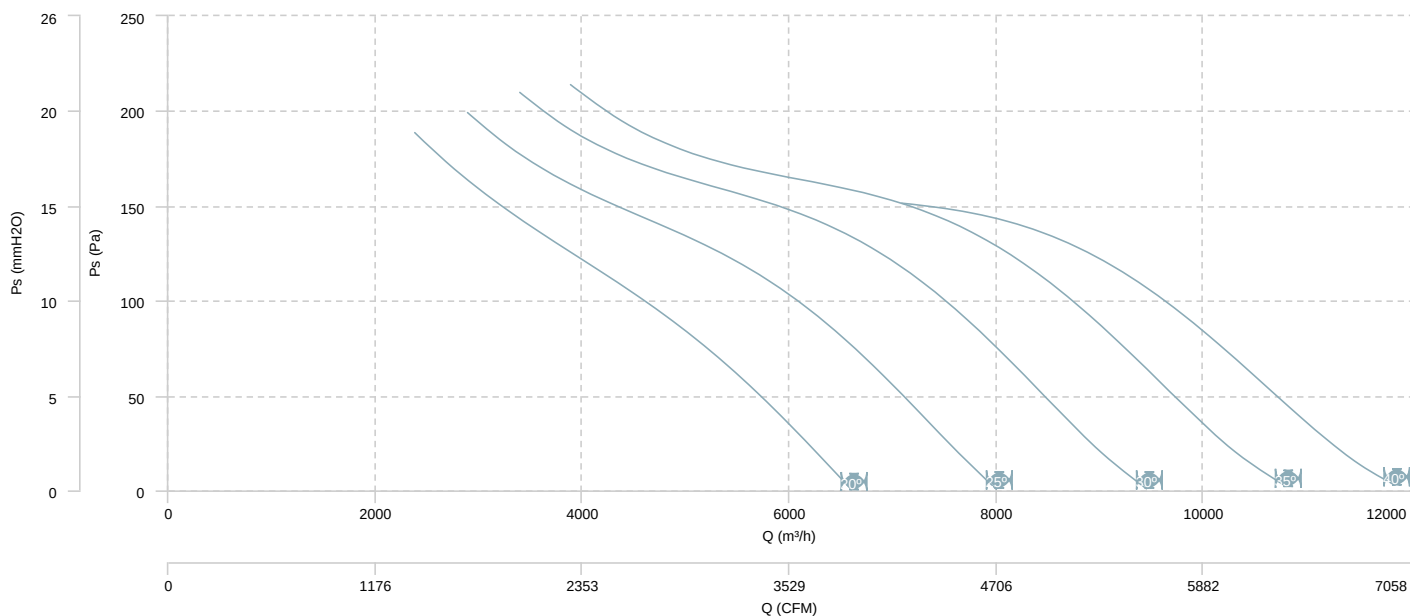


**AIR FLOW - MECHANICAL POWER (2 poles)**

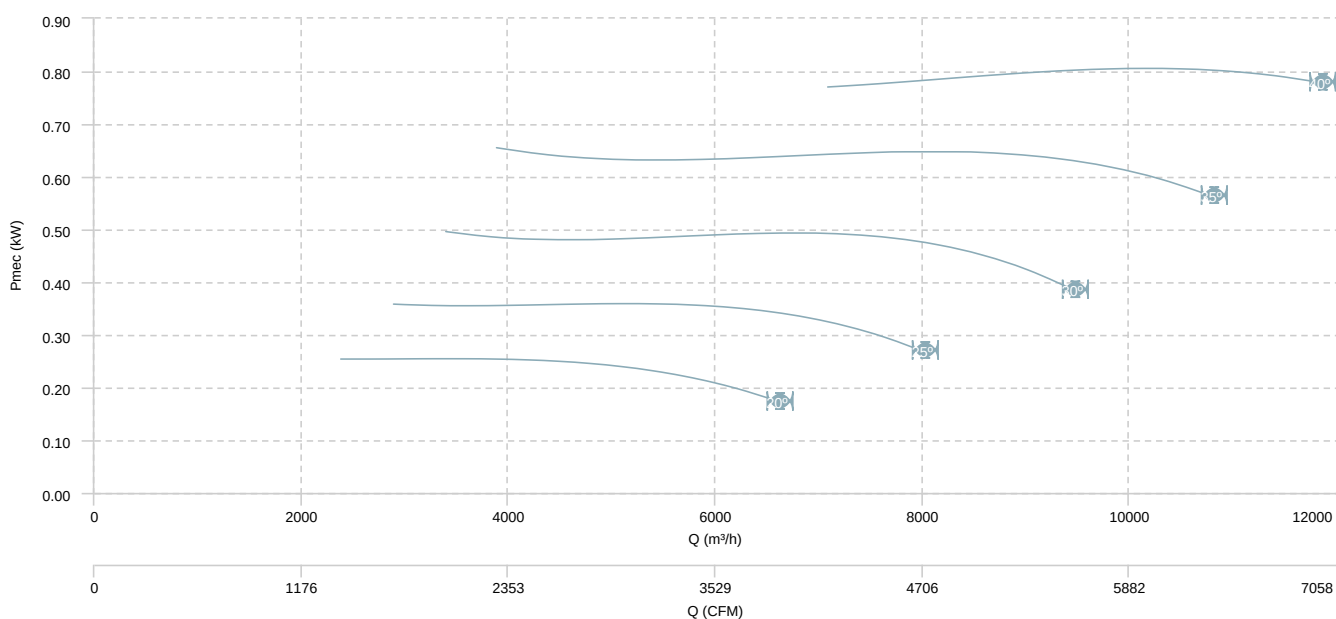


HMF 56 T2/T4 (A8:6) F400

**AIR FLOW - PRESSURE (4 poles)**

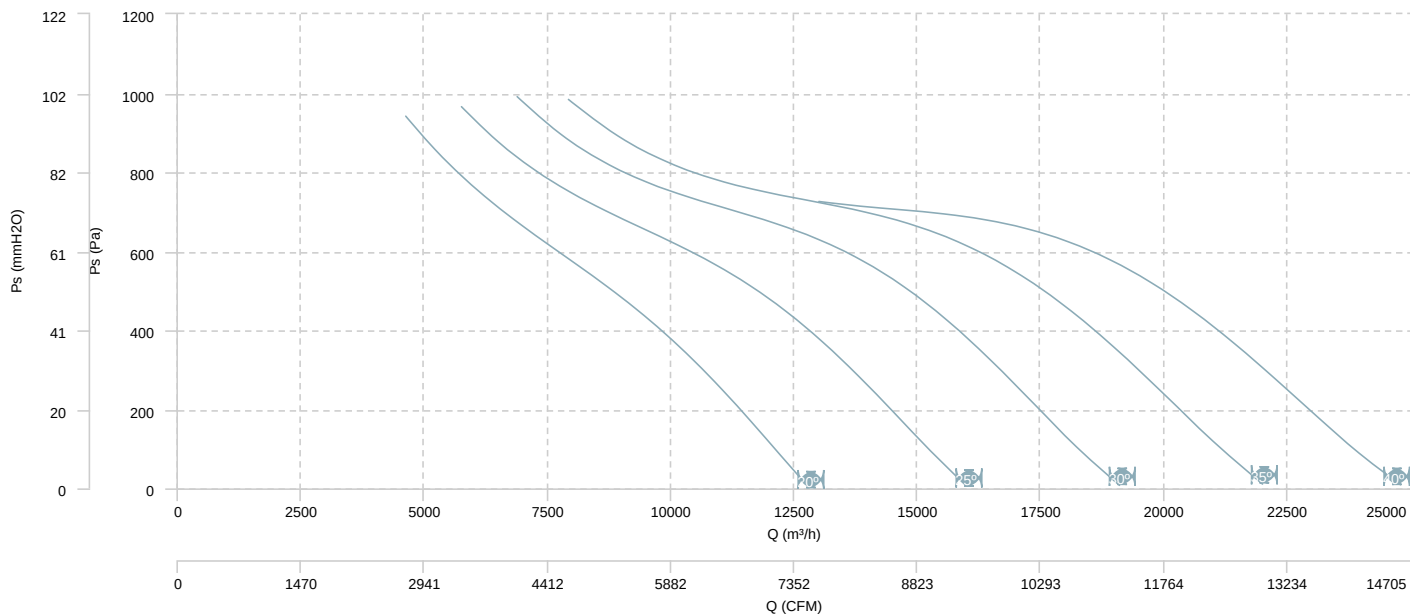


**AIR FLOW - MECHANICAL POWER (4 poles)**

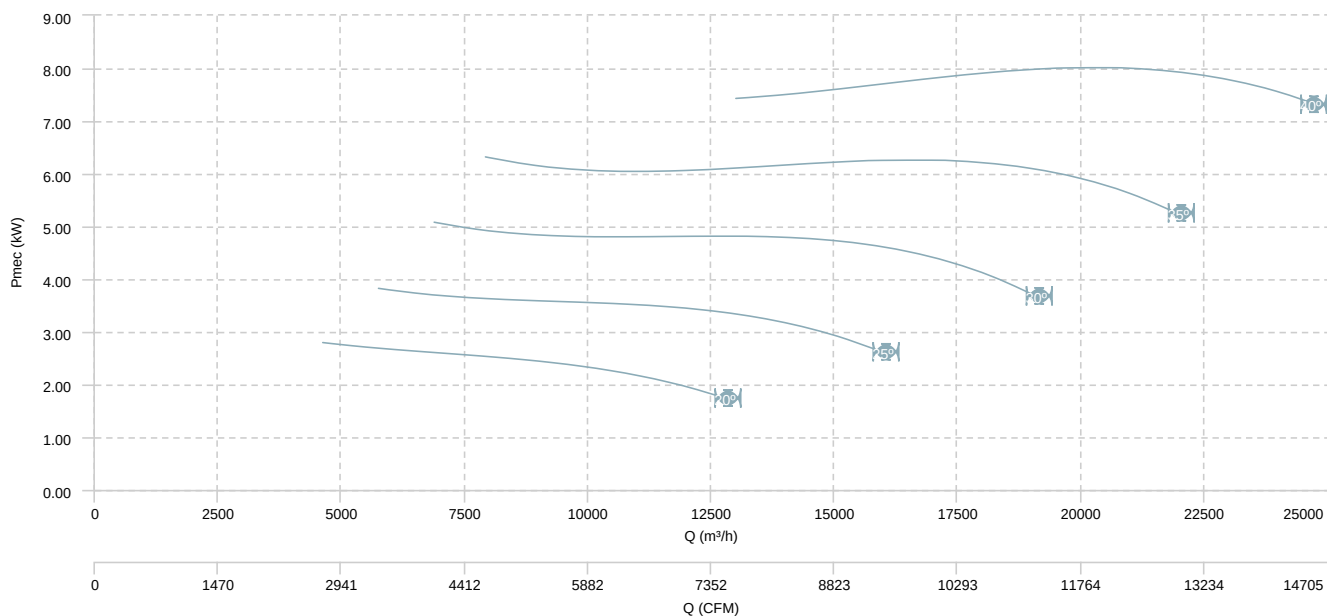


HMF 56 T2/T4 (A8:9) F400

**AIR FLOW - PRESSURE (2 poles)**

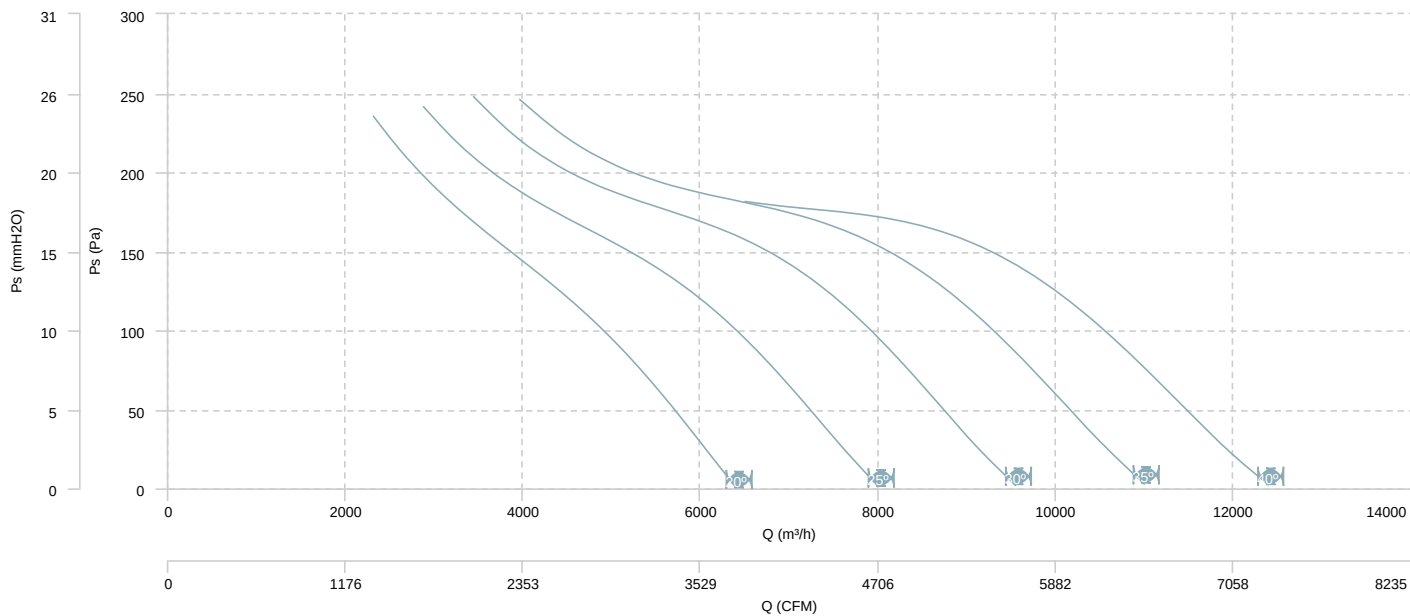


**AIR FLOW - MECHANICAL POWER (2 poles)**

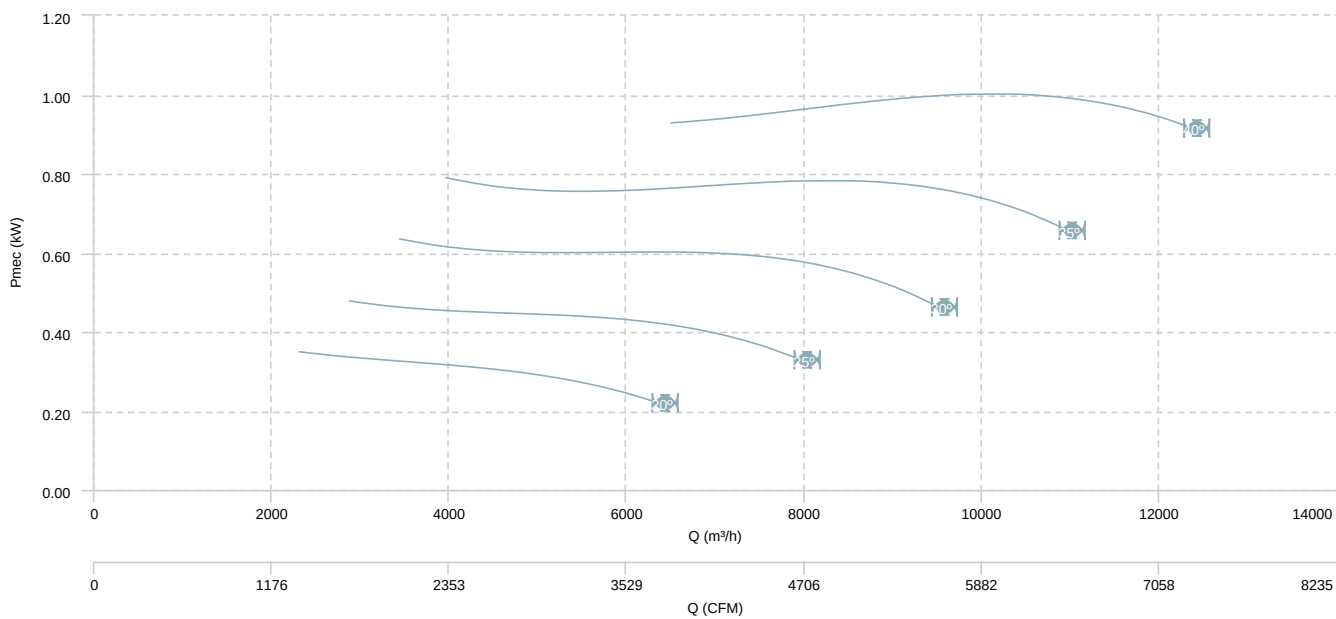


HMF 56 T2/T4 (A8:9) F400

**AIR FLOW - PRESSURE (4 poles)**

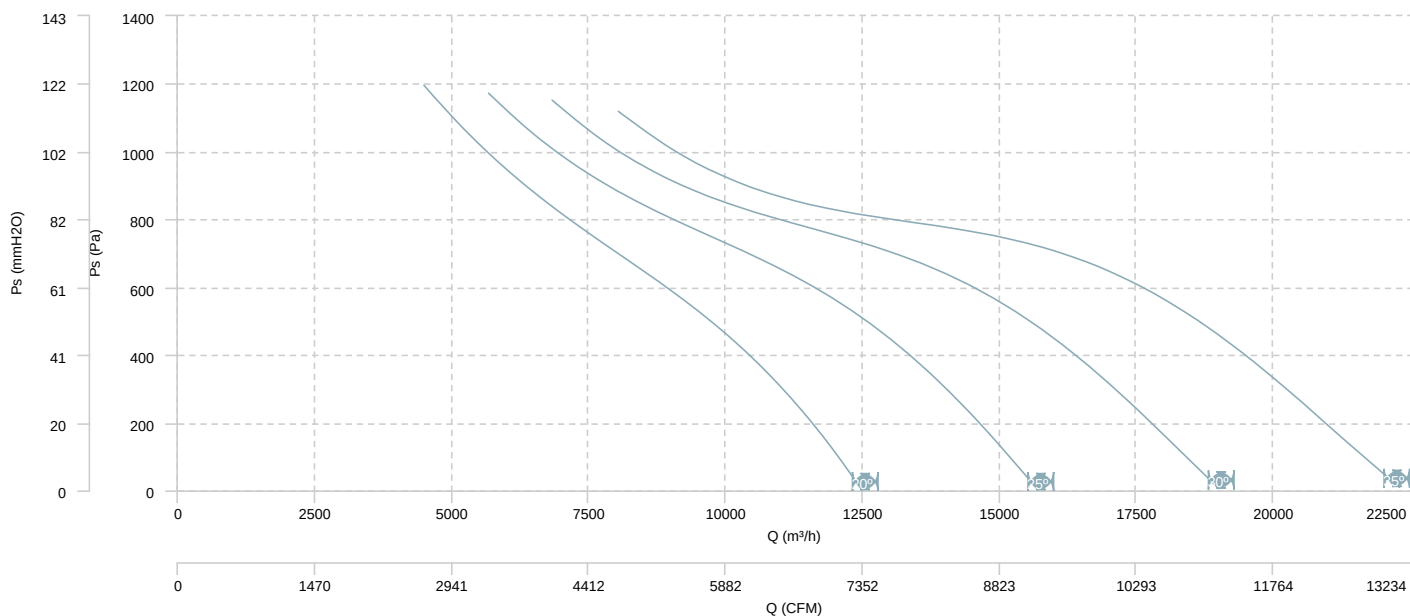


**AIR FLOW - MECHANICAL POWER (4 poles)**

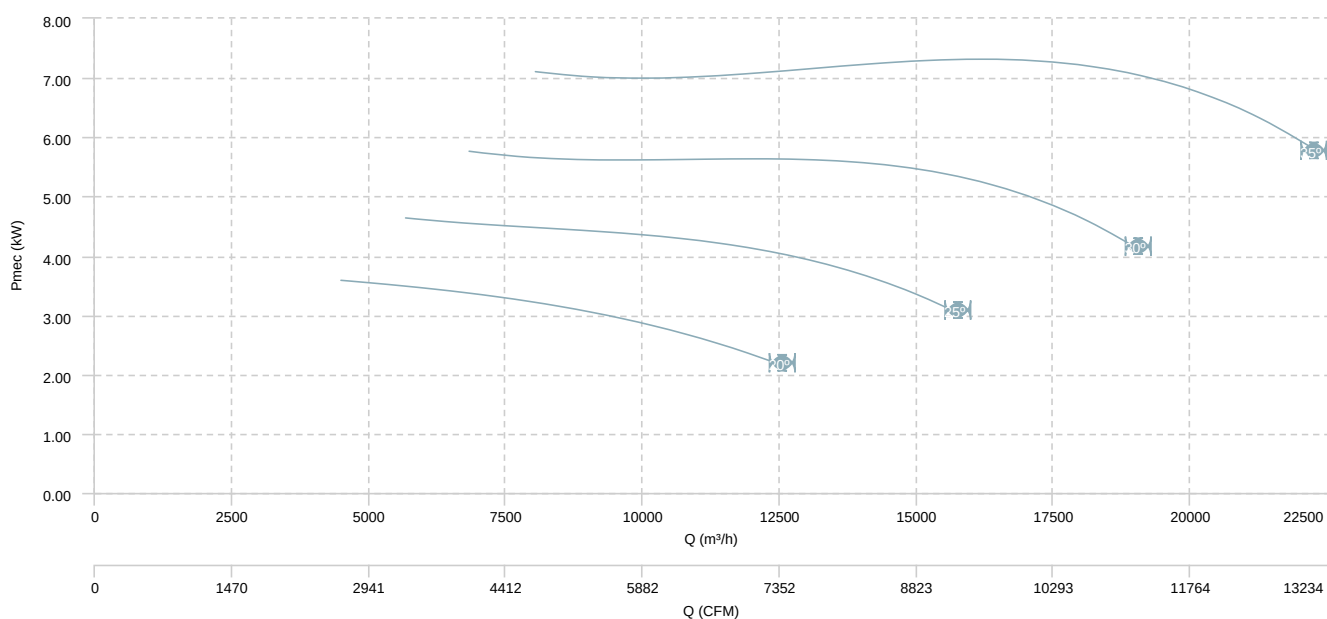


HMF 56 T2/T4 (A8:12) F400

**AIR FLOW - PRESSURE (2 poles)**

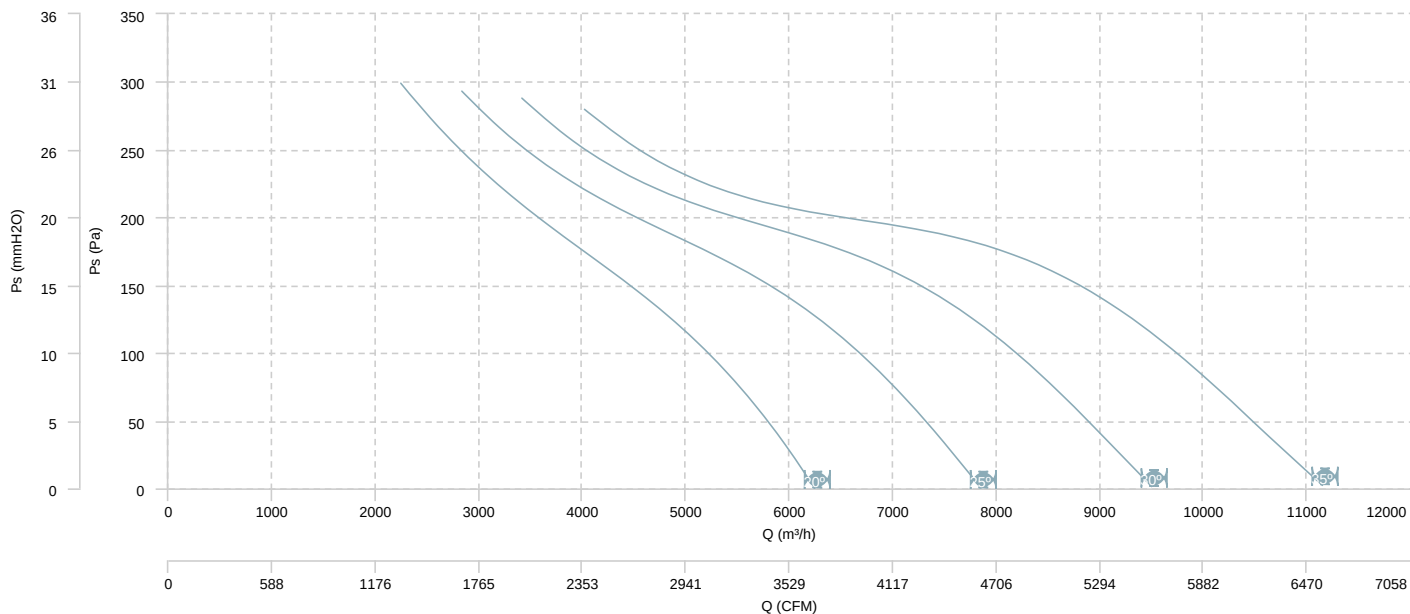


**AIR FLOW - MECHANICAL POWER (2 poles)**

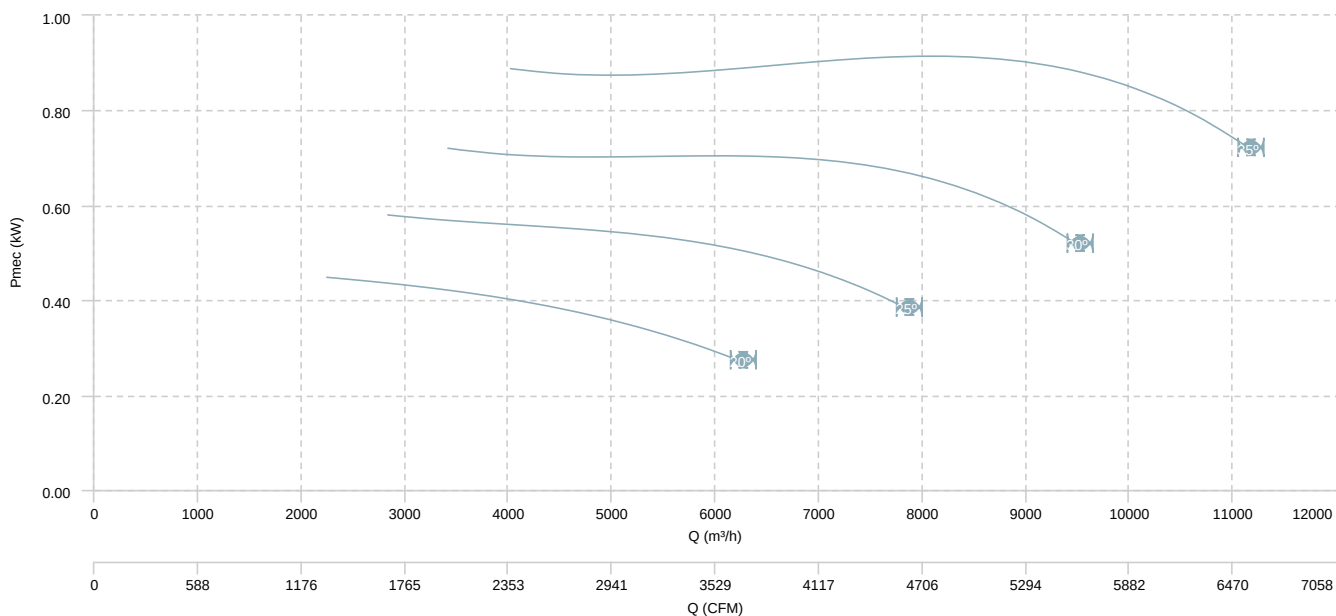


HMF 56 T2/T4 (A8:12) F400

**AIR FLOW - PRESSURE (4 poles)**

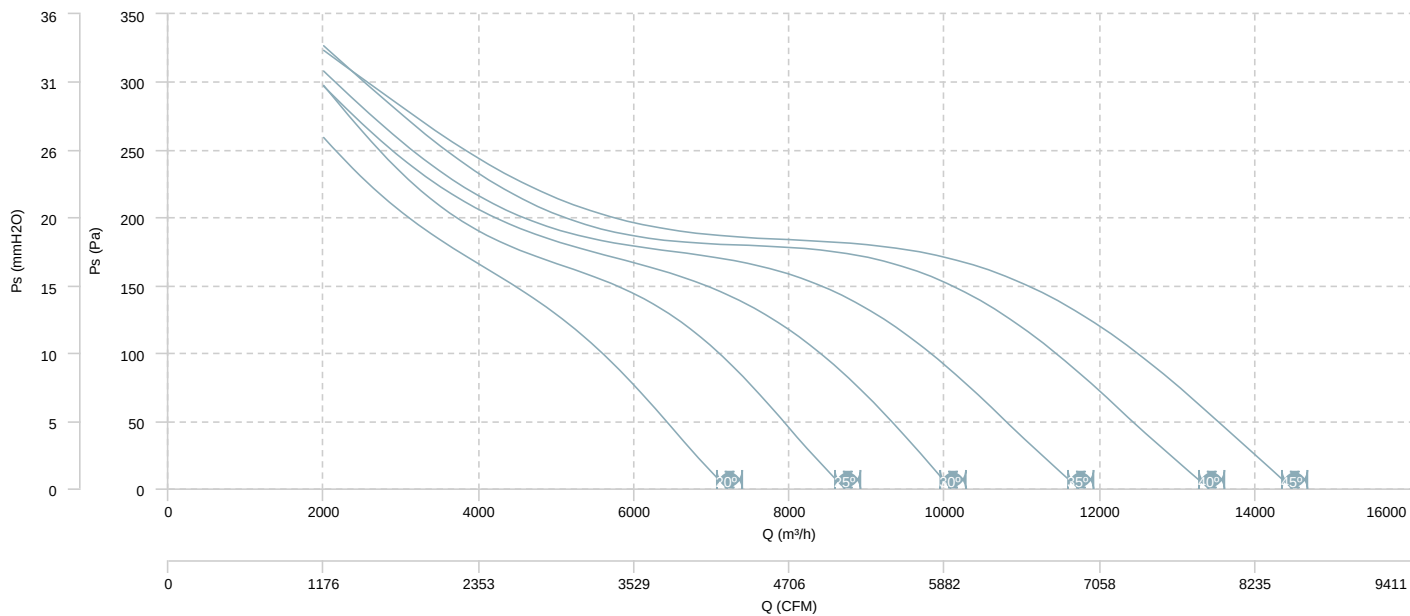


**AIR FLOW - MECHANICAL POWER (4 poles)**

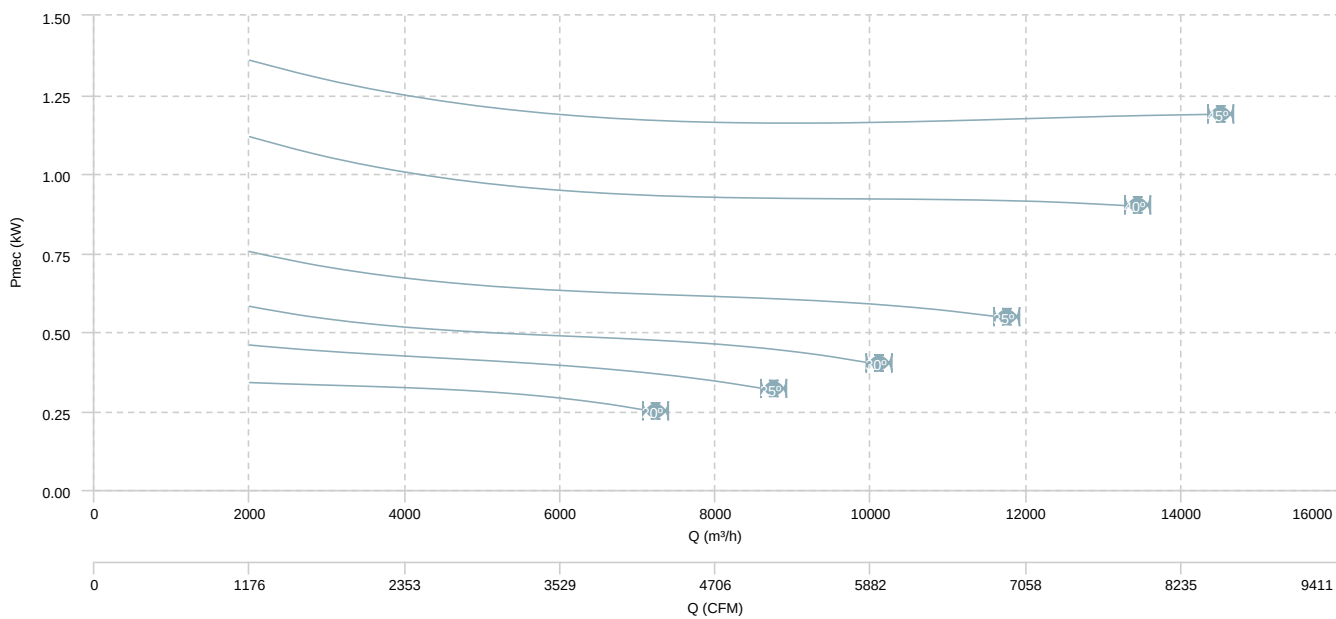


HMF 56 T4/T6 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

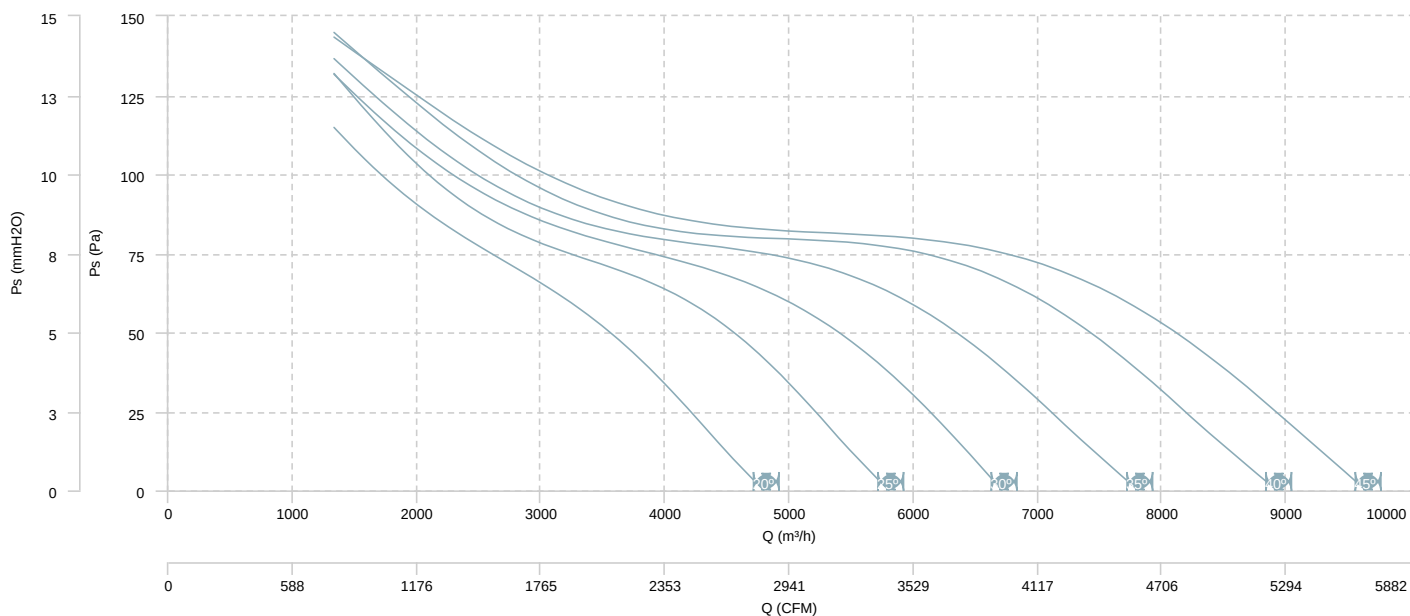


**AIR FLOW - MECHANICAL POWER (4 poles)**

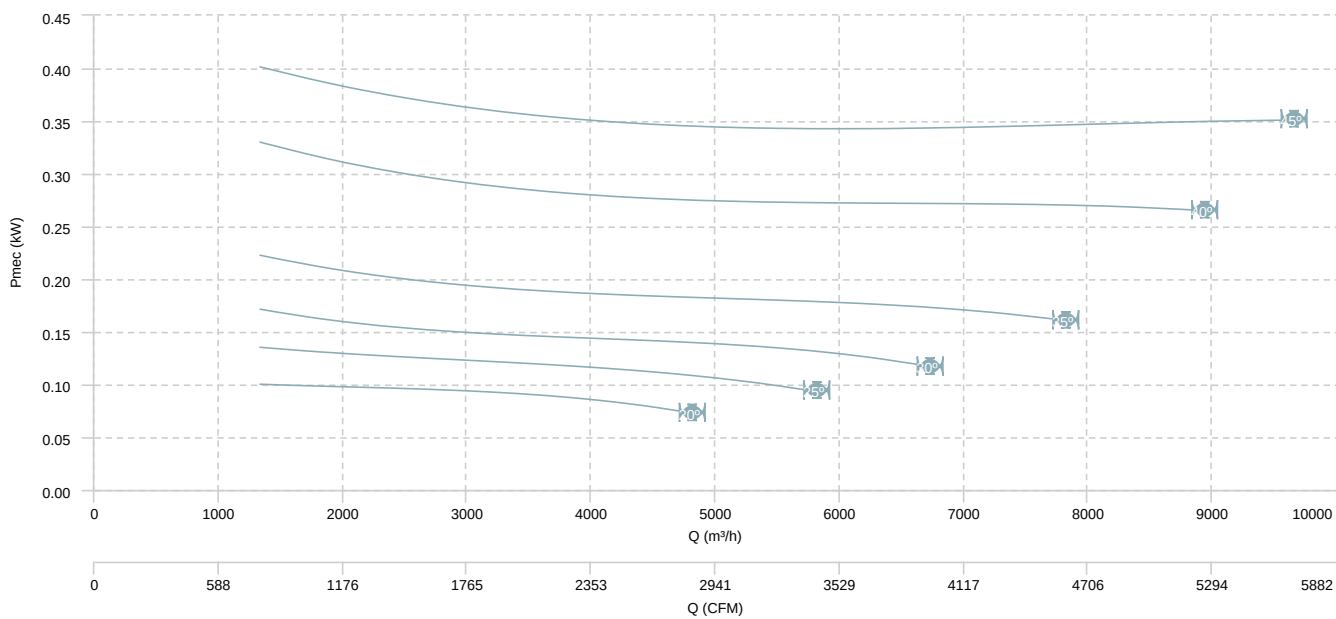


HMF 56 T4/T6 (A5:6) F400

**AIR FLOW - PRESSURE (6 poles)**



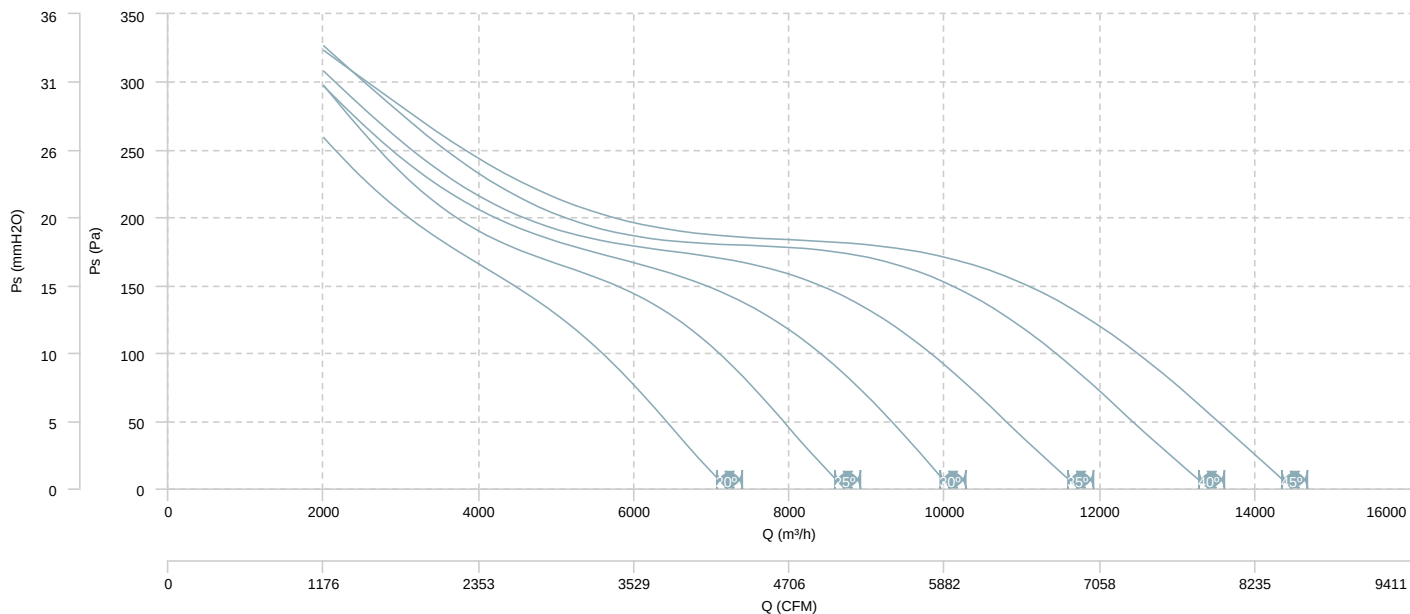
**AIR FLOW - MECHANICAL POWER (6 poles)**



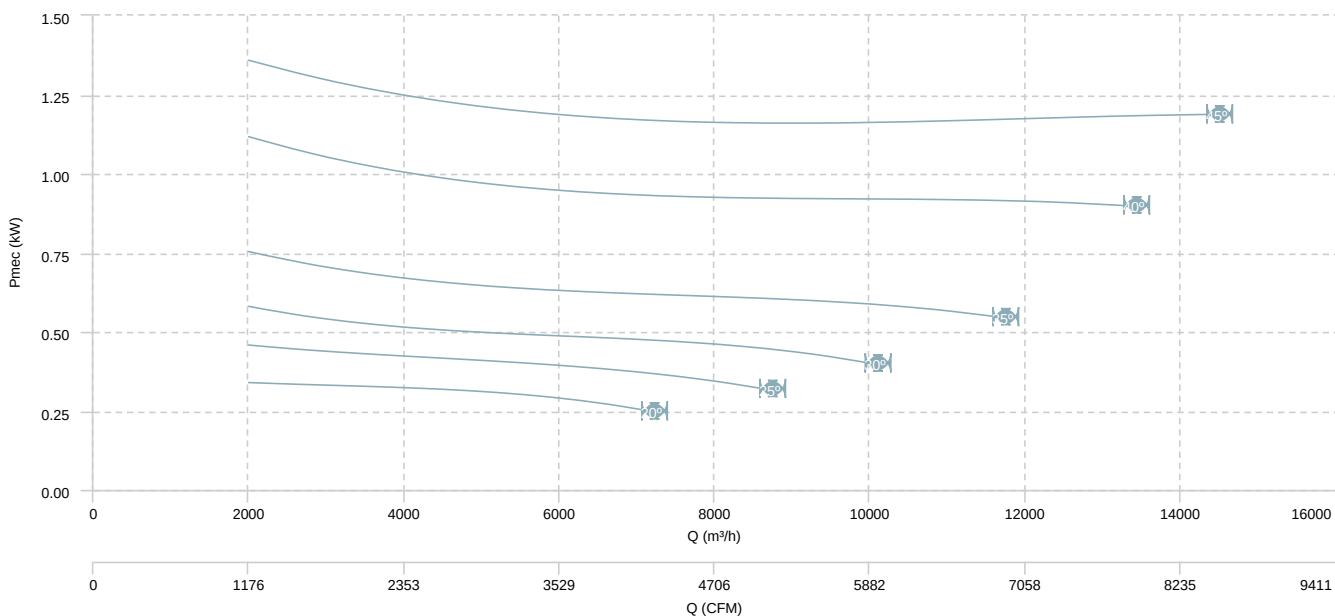


HMF 56 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

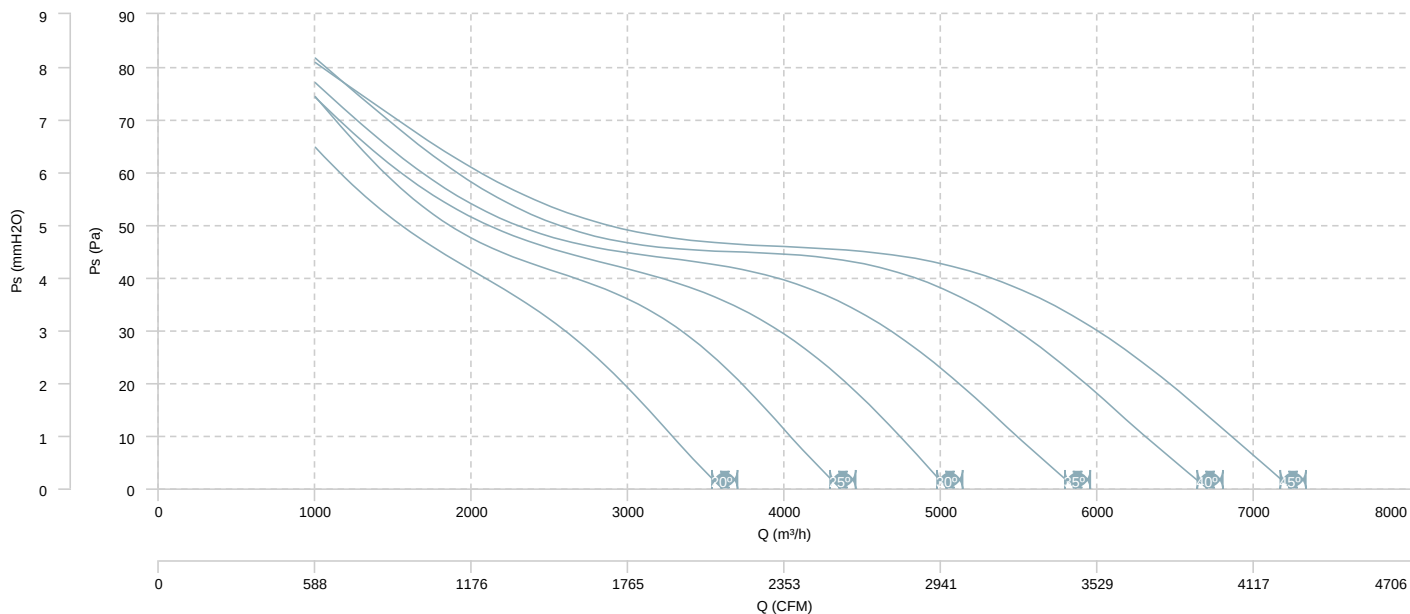


**AIR FLOW - MECHANICAL POWER (4 poles)**

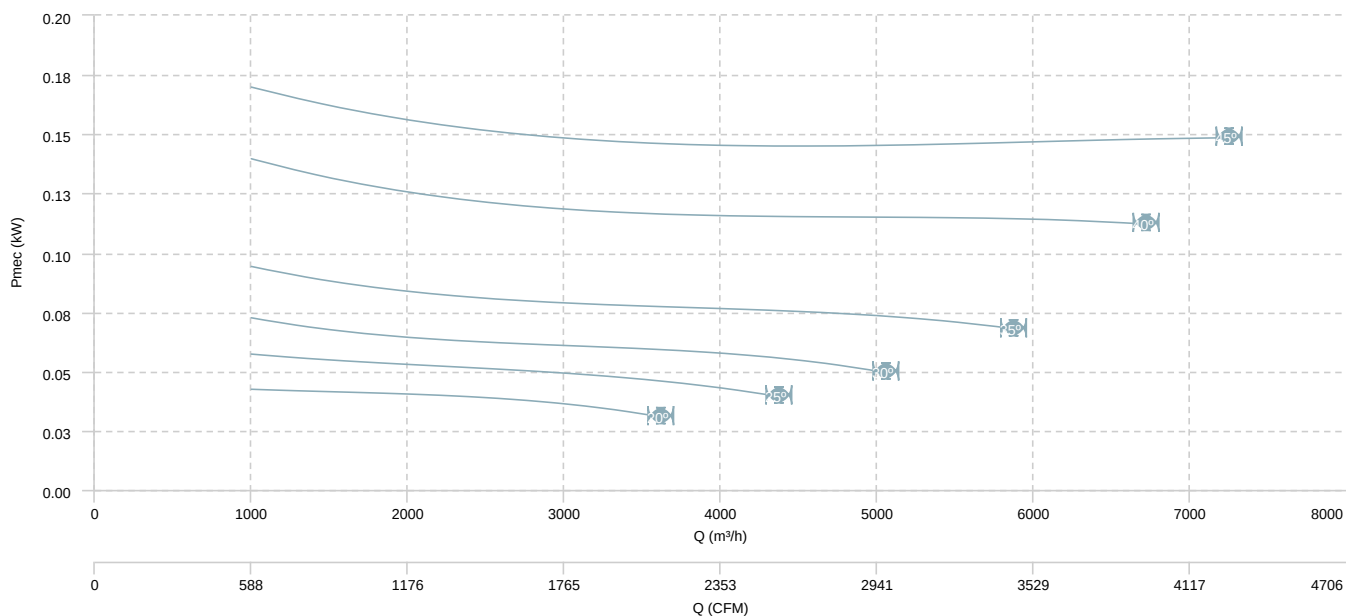


HMF 56 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (8 poles)**

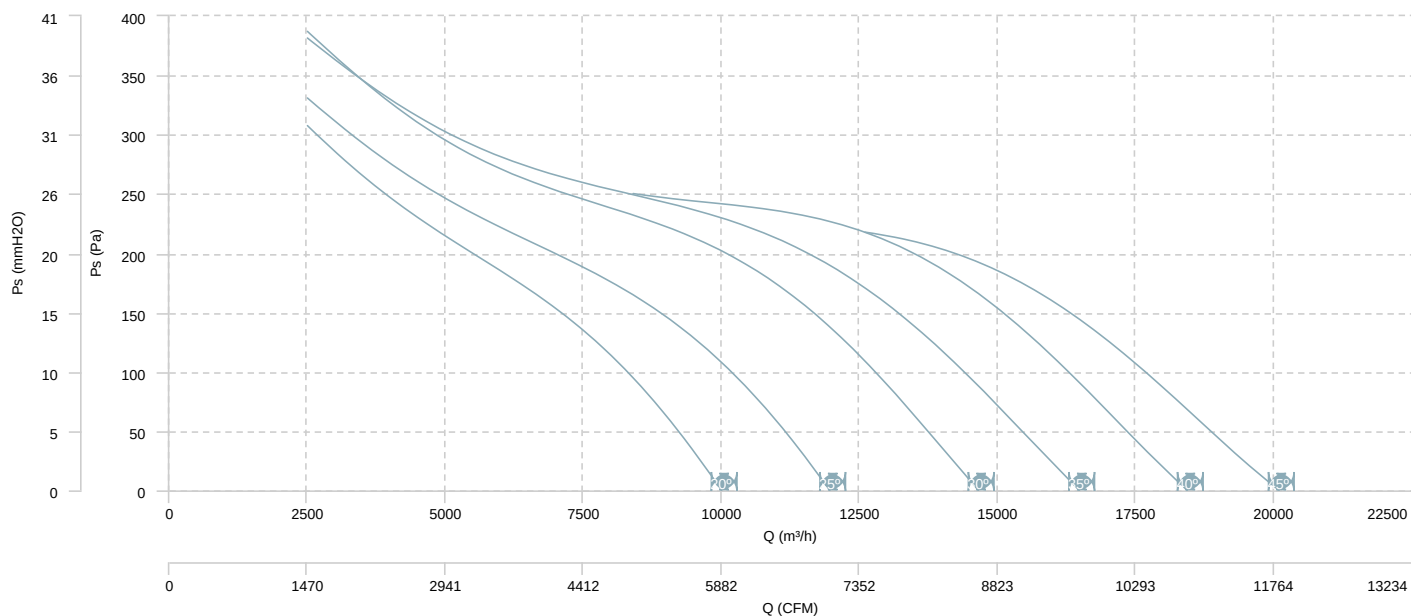


**AIR FLOW - MECHANICAL POWER (8 poles)**

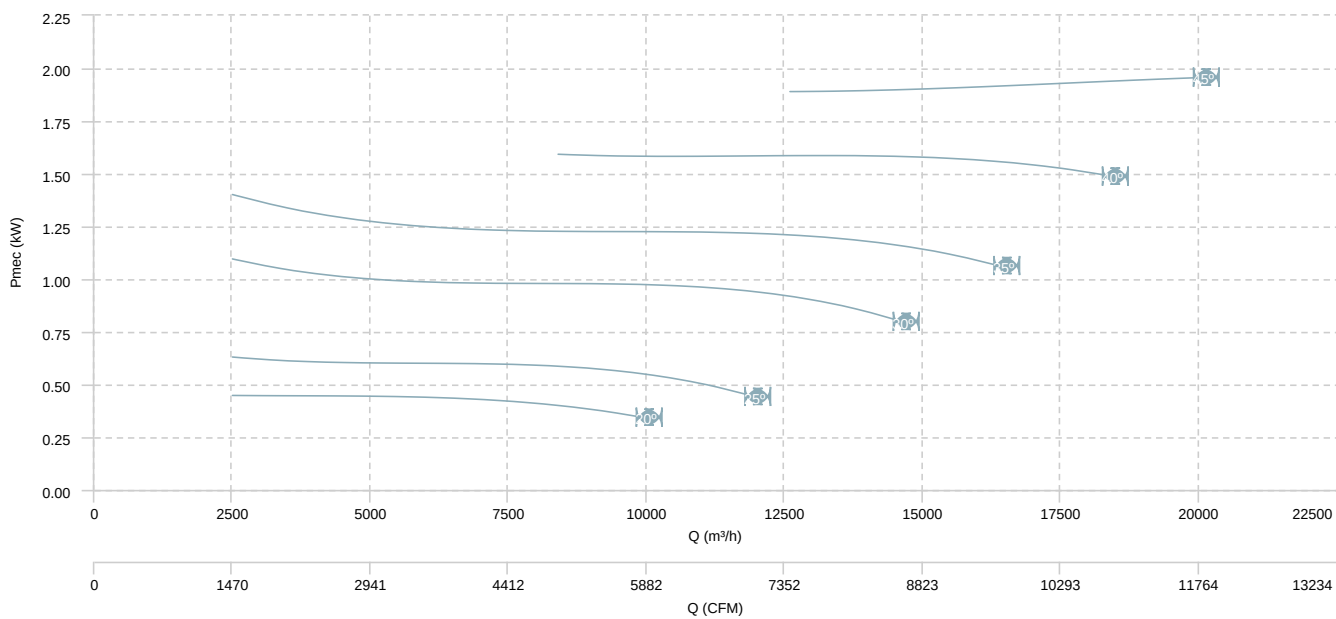


HMF 63 T4 (A5:6) F400

**AIR FLOW - PRESSURE**

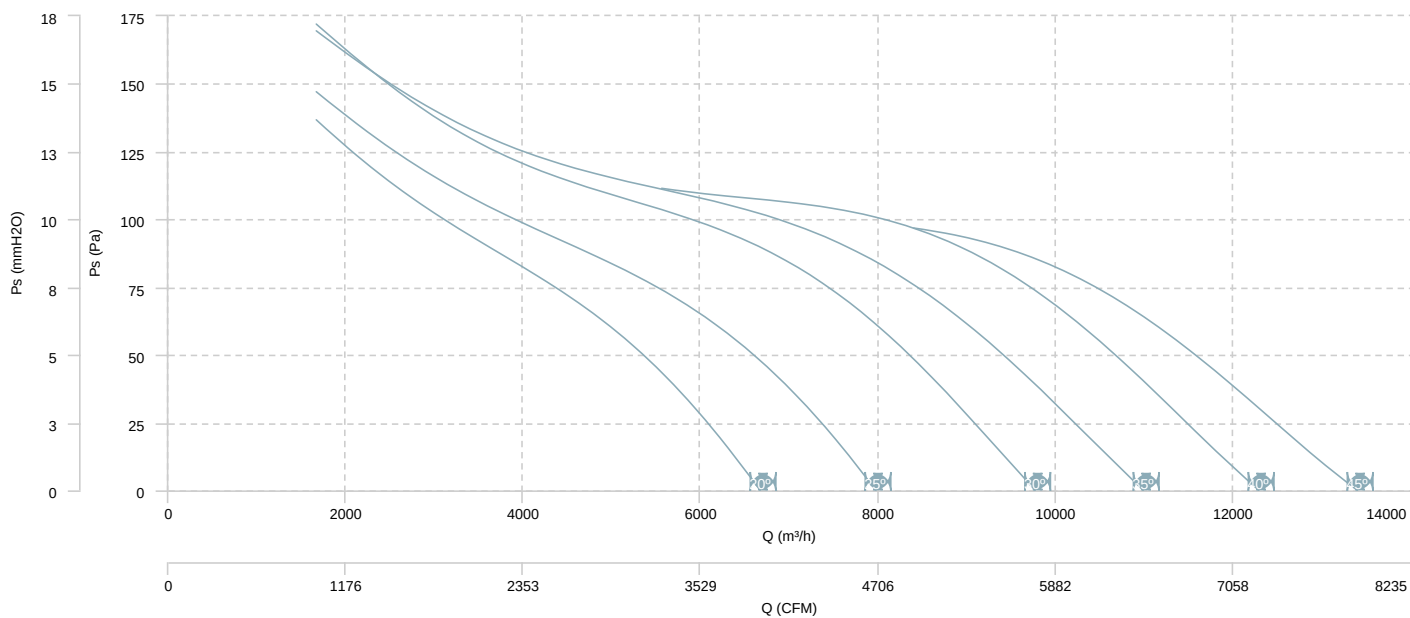


**AIR FLOW - MECHANICAL POWER**

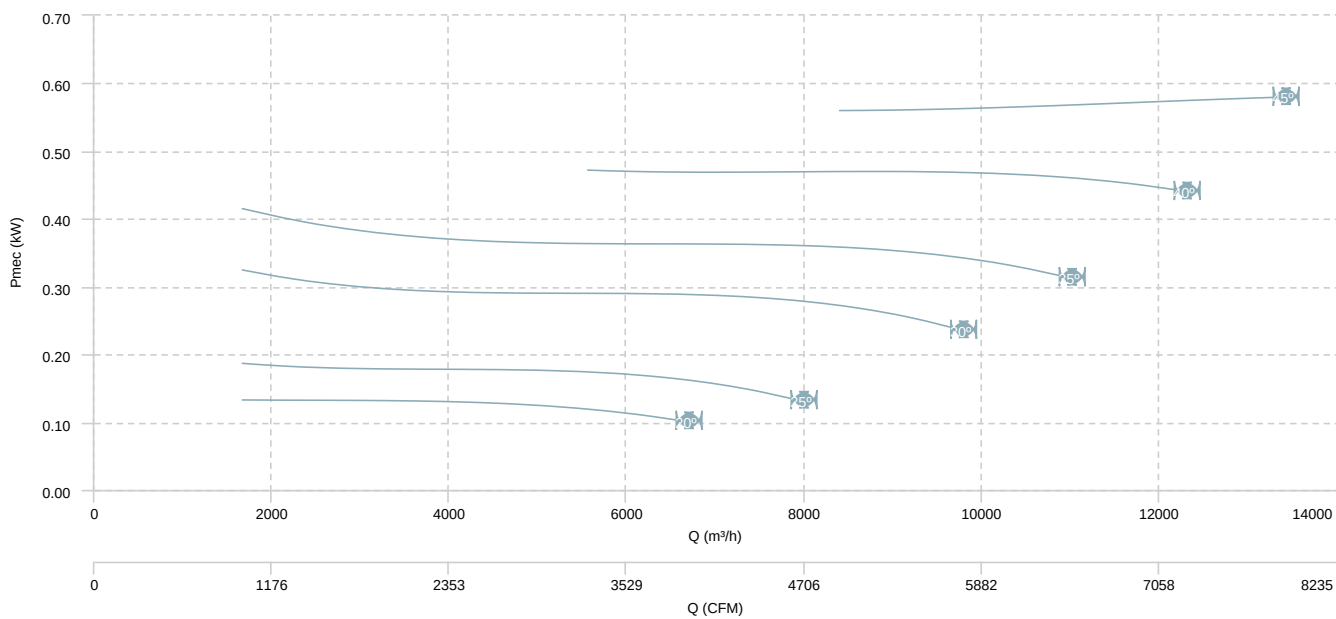


HMF 63 T6 (A5:6) F400

## AIR FLOW - PRESSURE

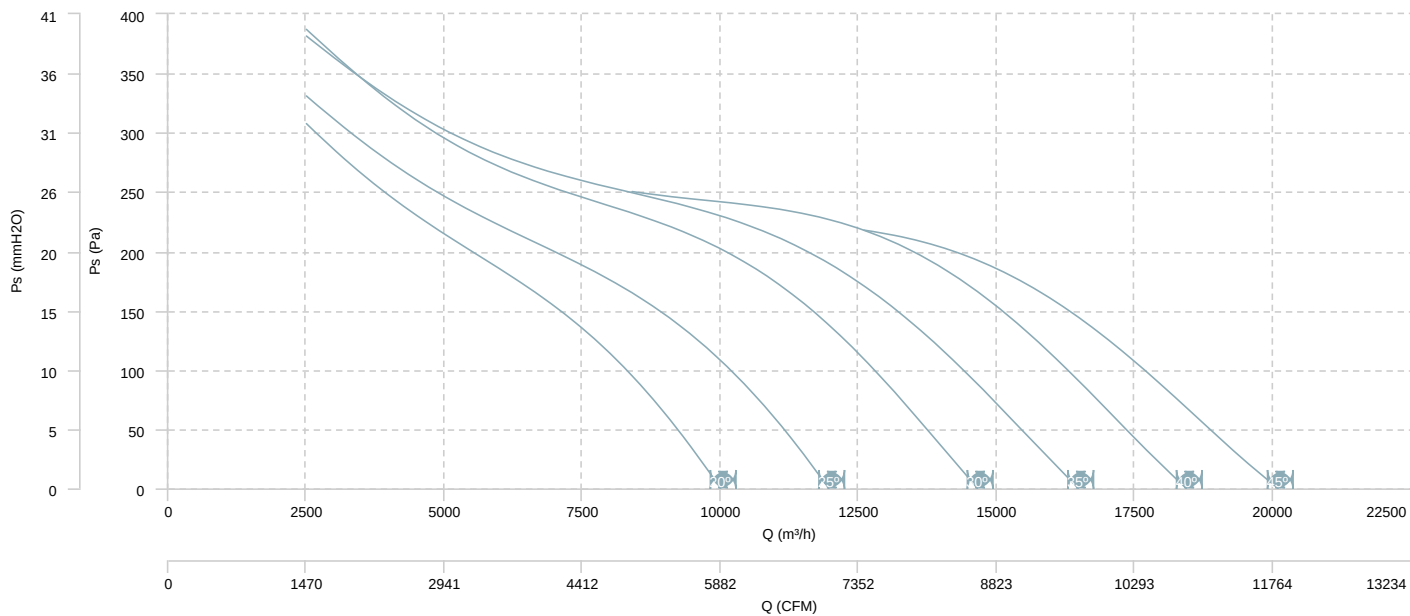


## AIR FLOW - MECHANICAL POWER

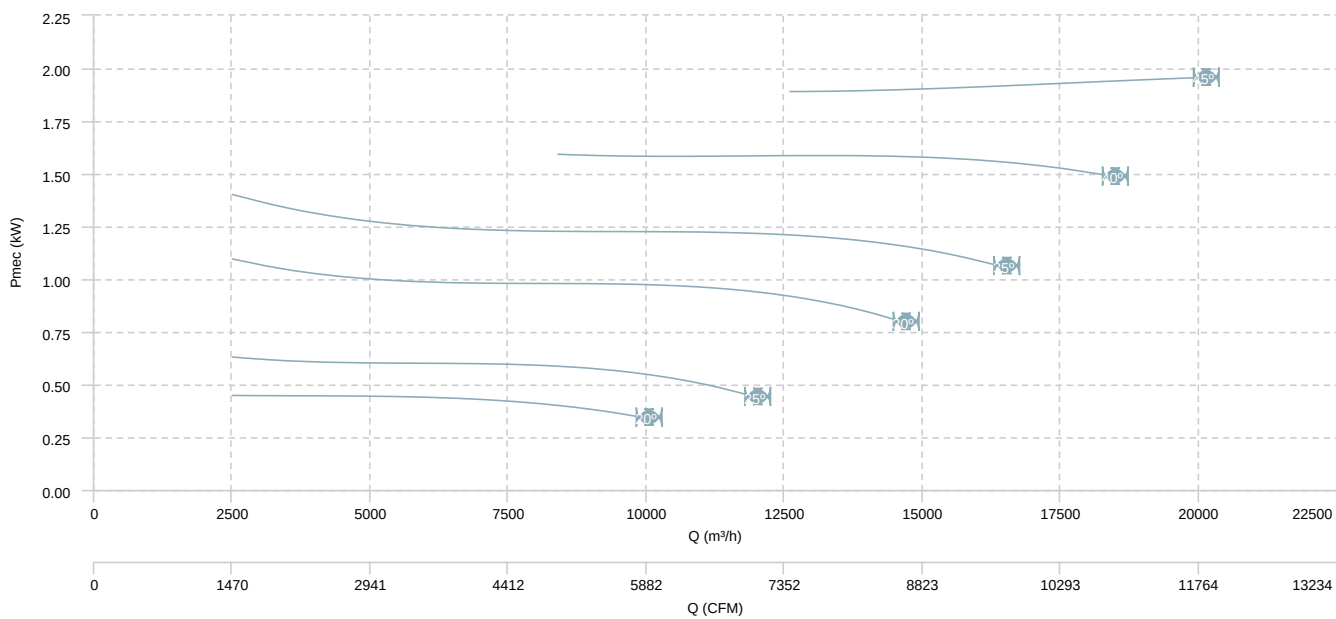


HMF 63 T4/T6 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

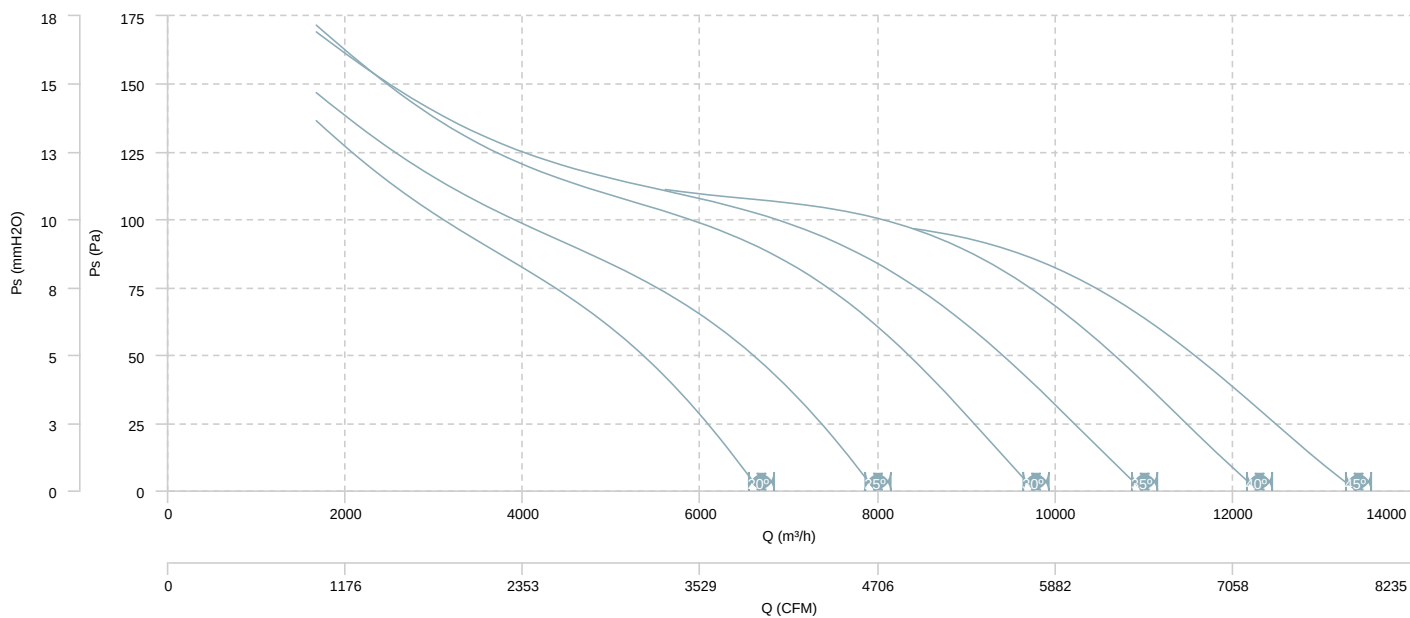


**AIR FLOW - MECHANICAL POWER (4 poles)**

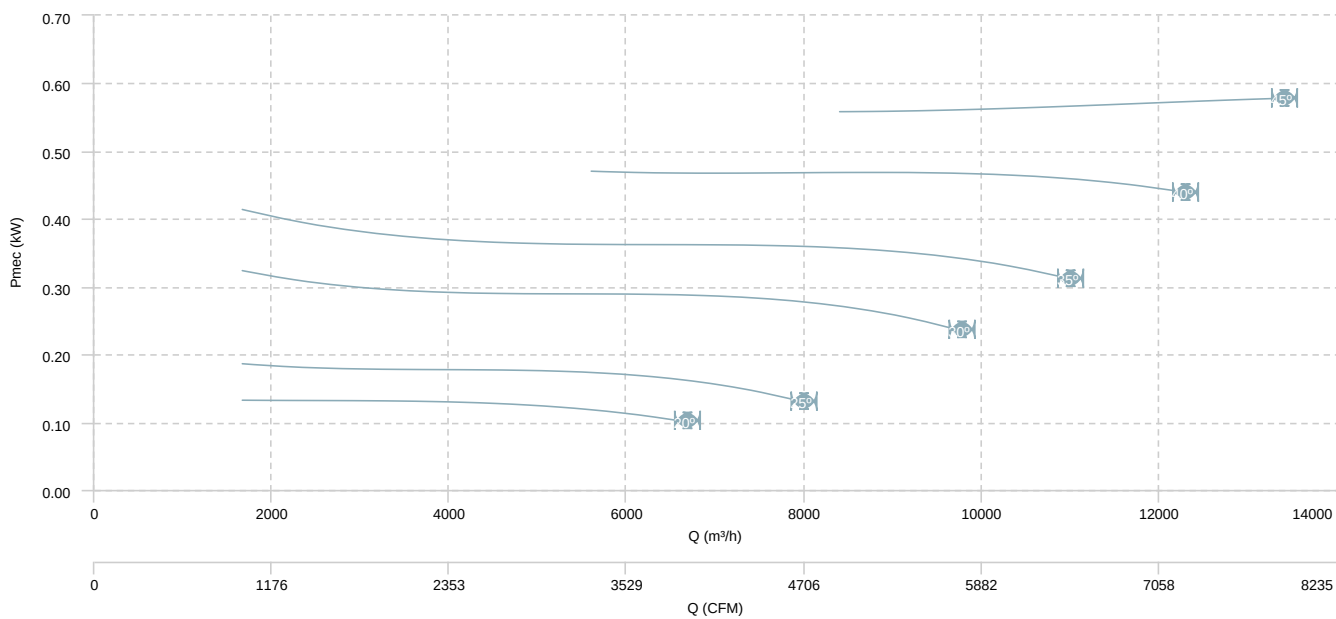


HMF 63 T4/T6 (A5:6) F400

**AIR FLOW - PRESSURE (6 poles)**

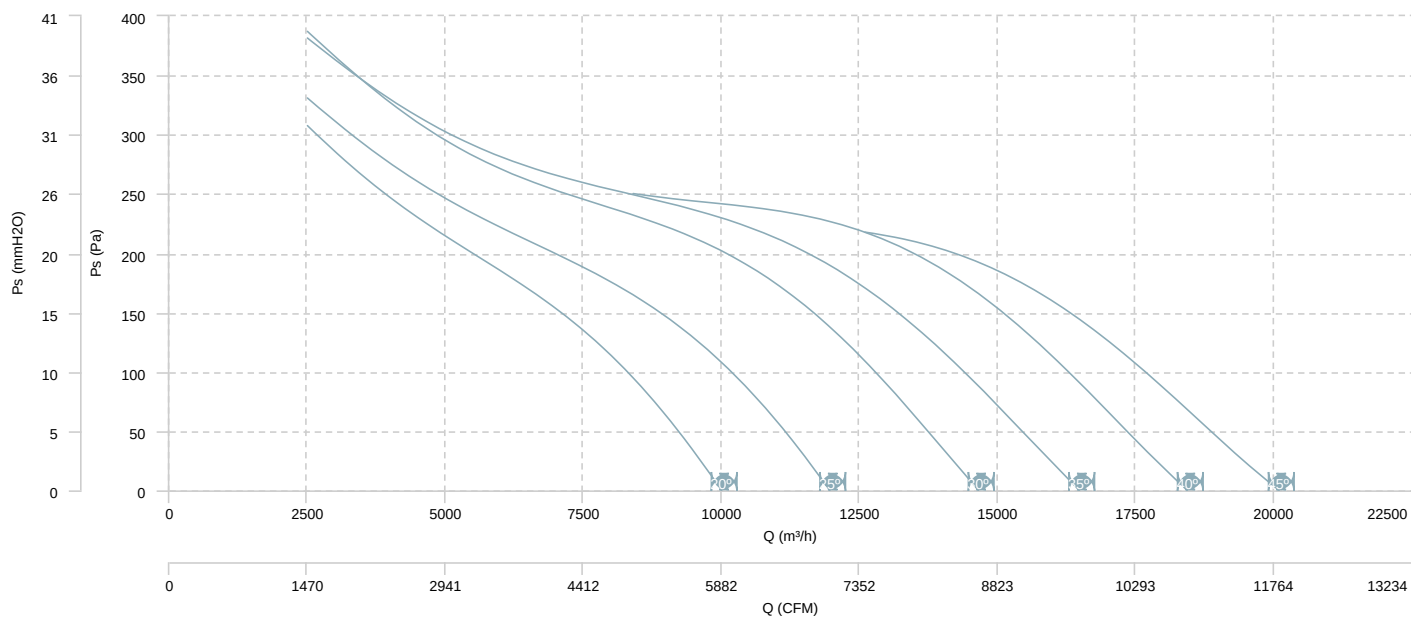


**AIR FLOW - MECHANICAL POWER (6 poles)**

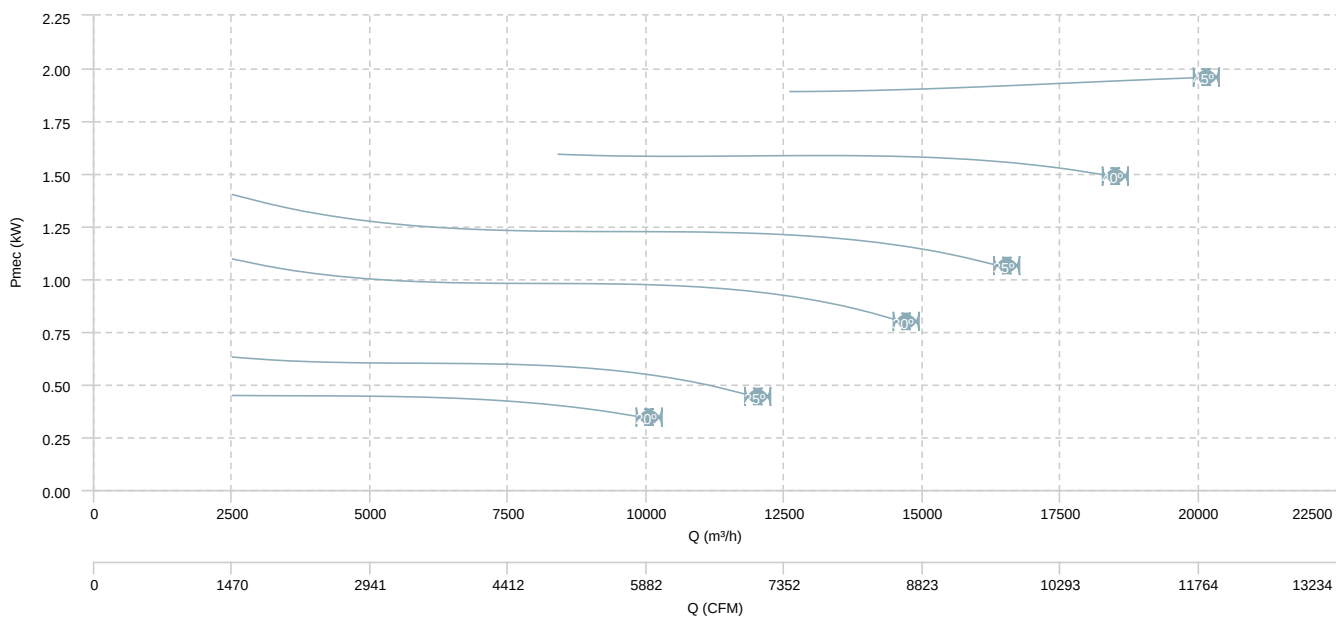


HMF 63 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

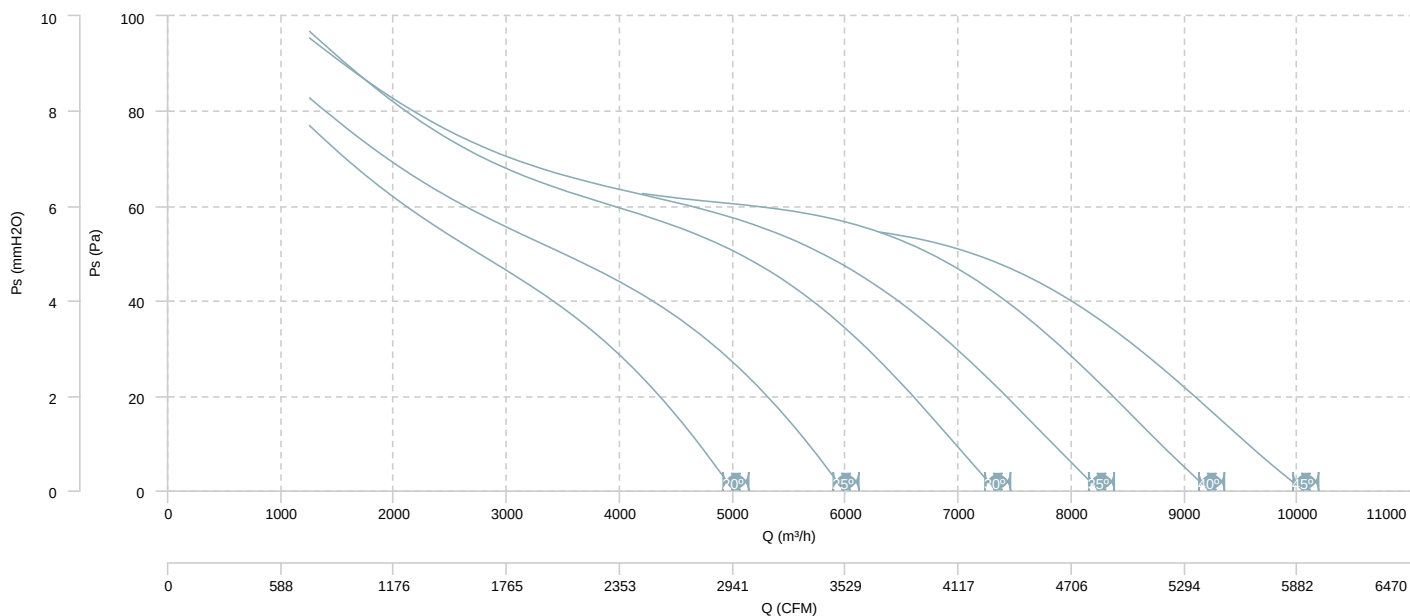


**AIR FLOW - MECHANICAL POWER (4 poles)**

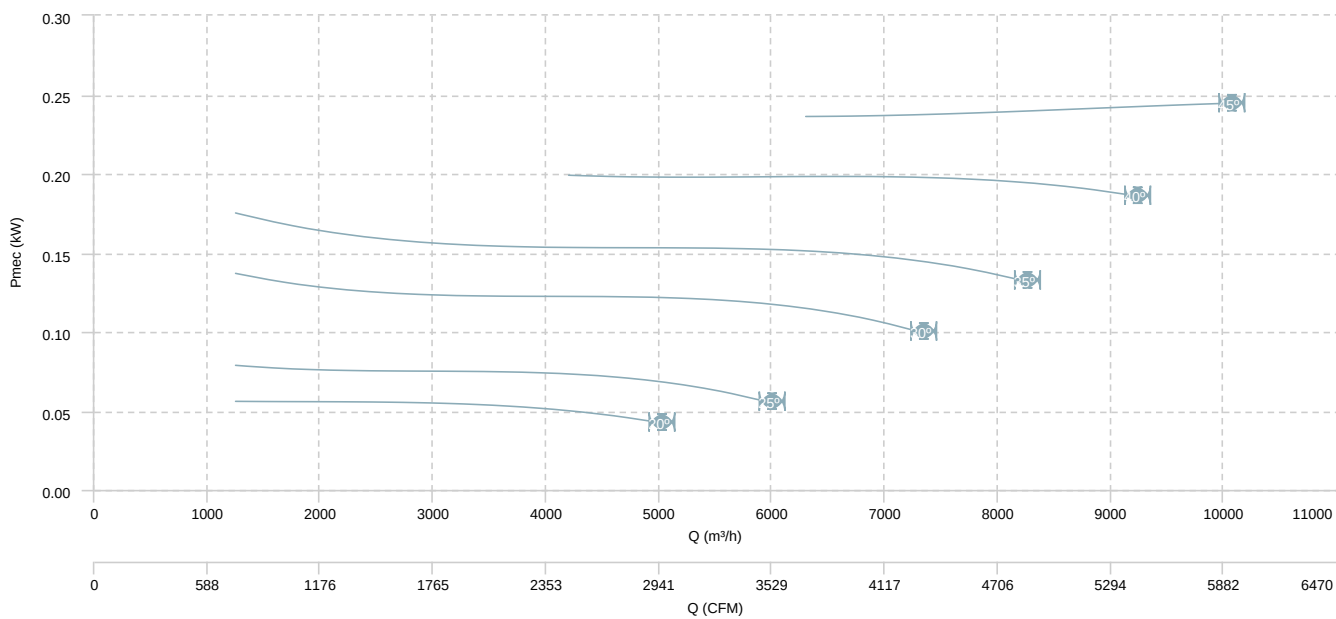


HMF 63 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (8 poles)**



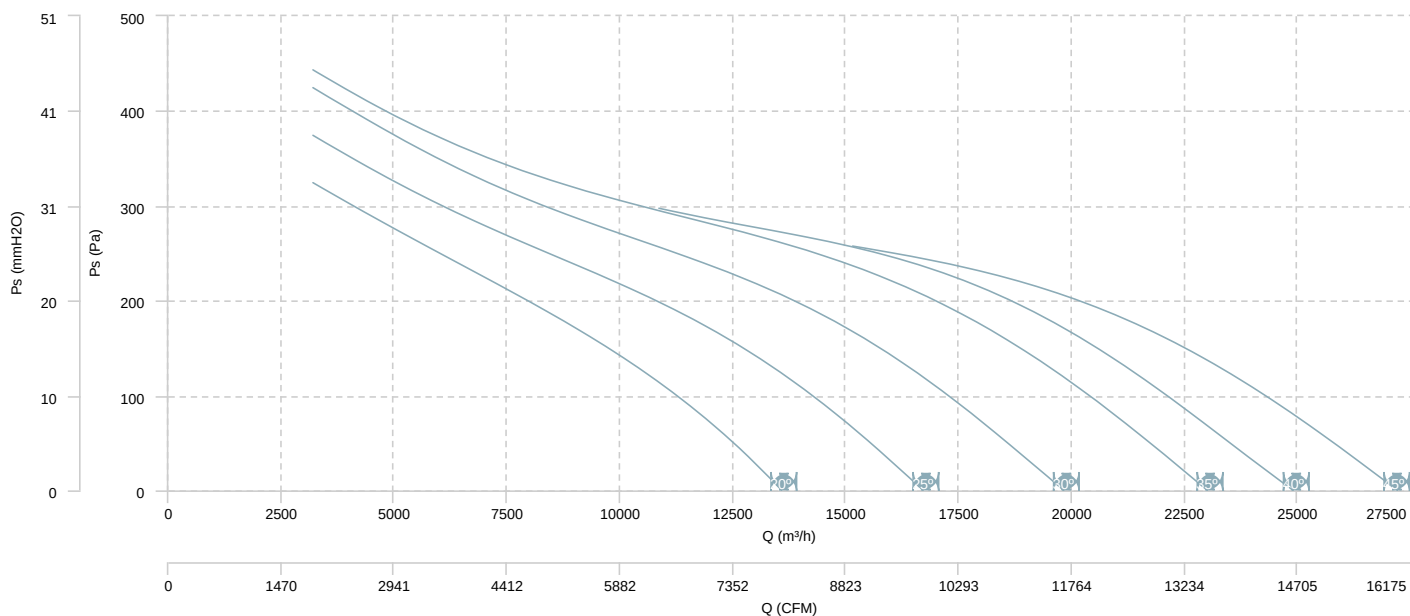
**AIR FLOW - MECHANICAL POWER (8 poles)**



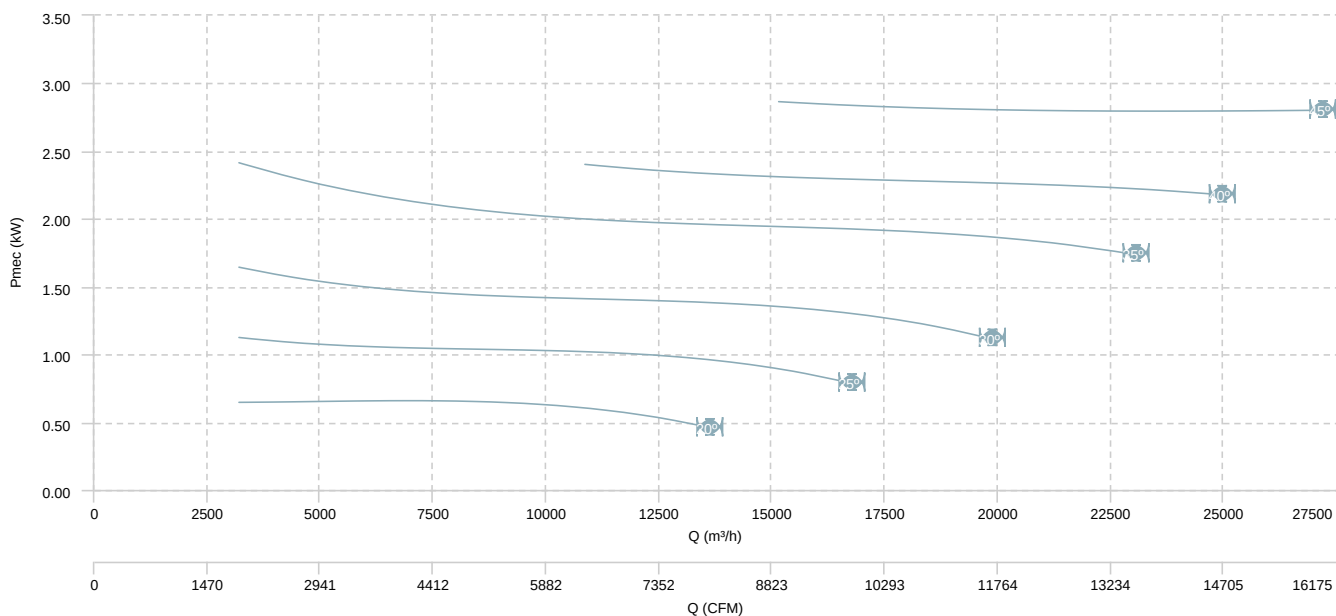


HMF 71 T4 (A5:6) F400

**AIR FLOW - PRESSURE**

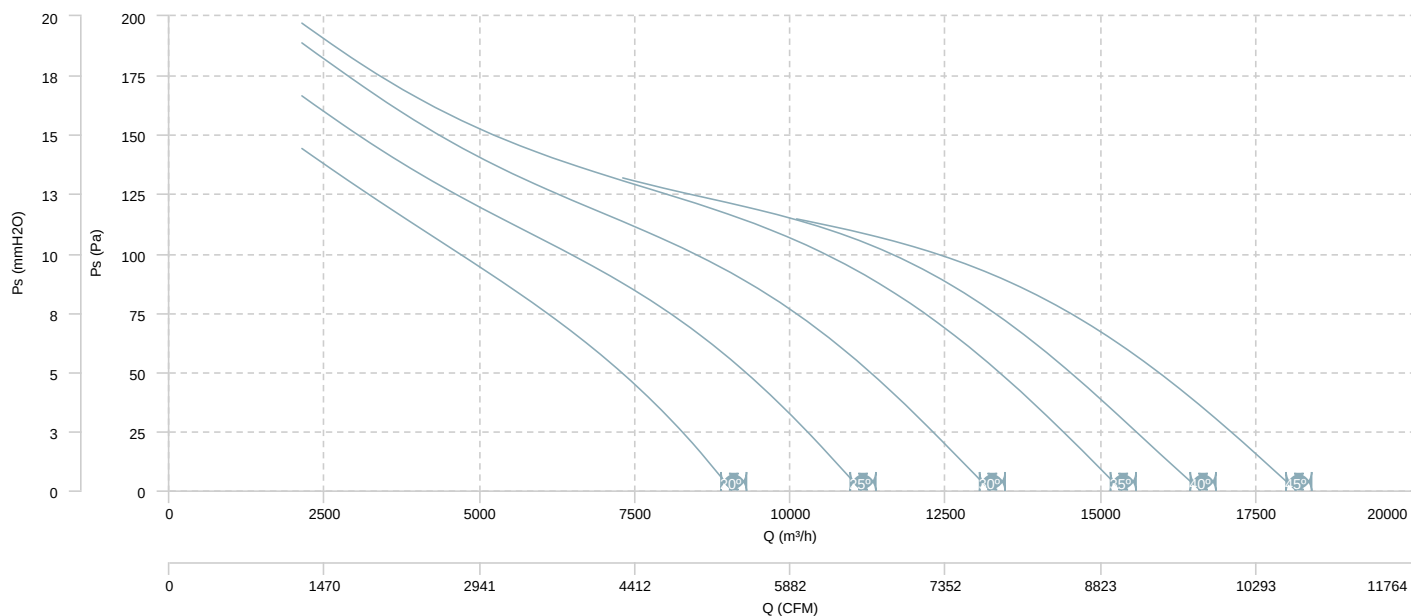


**AIR FLOW - MECHANICAL POWER**

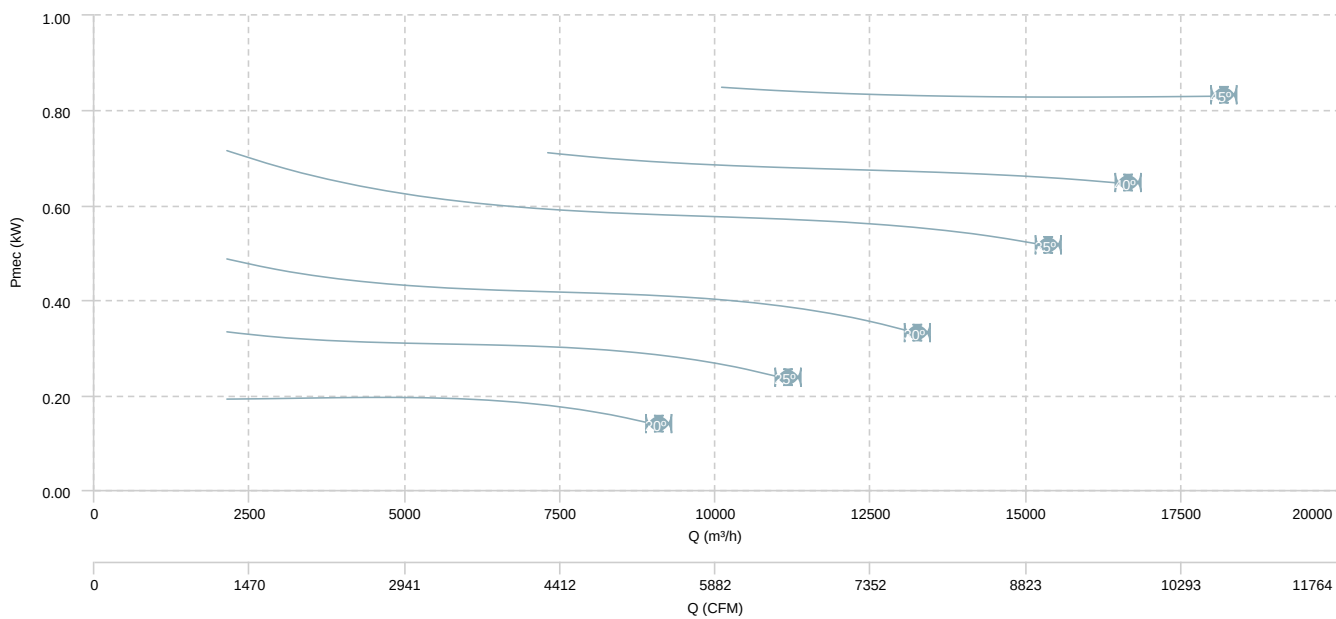


HMF 71 T6 (A5:6) F400

**AIR FLOW - PRESSURE**

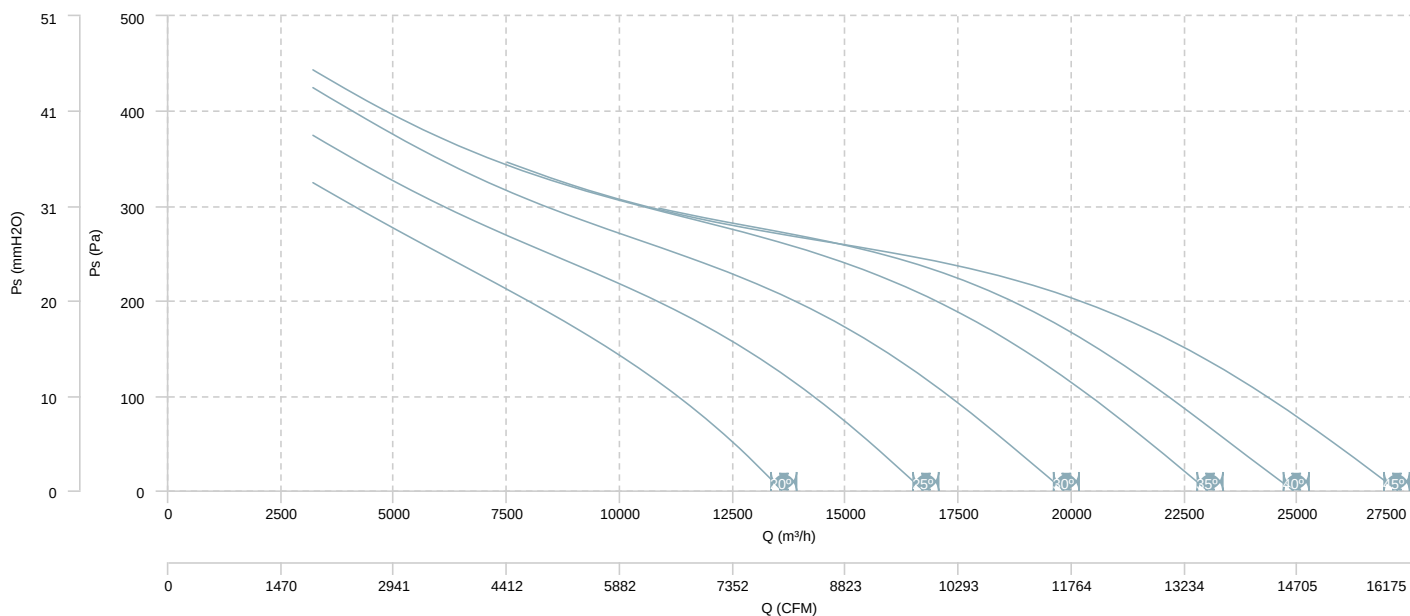


**AIR FLOW - MECHANICAL POWER**

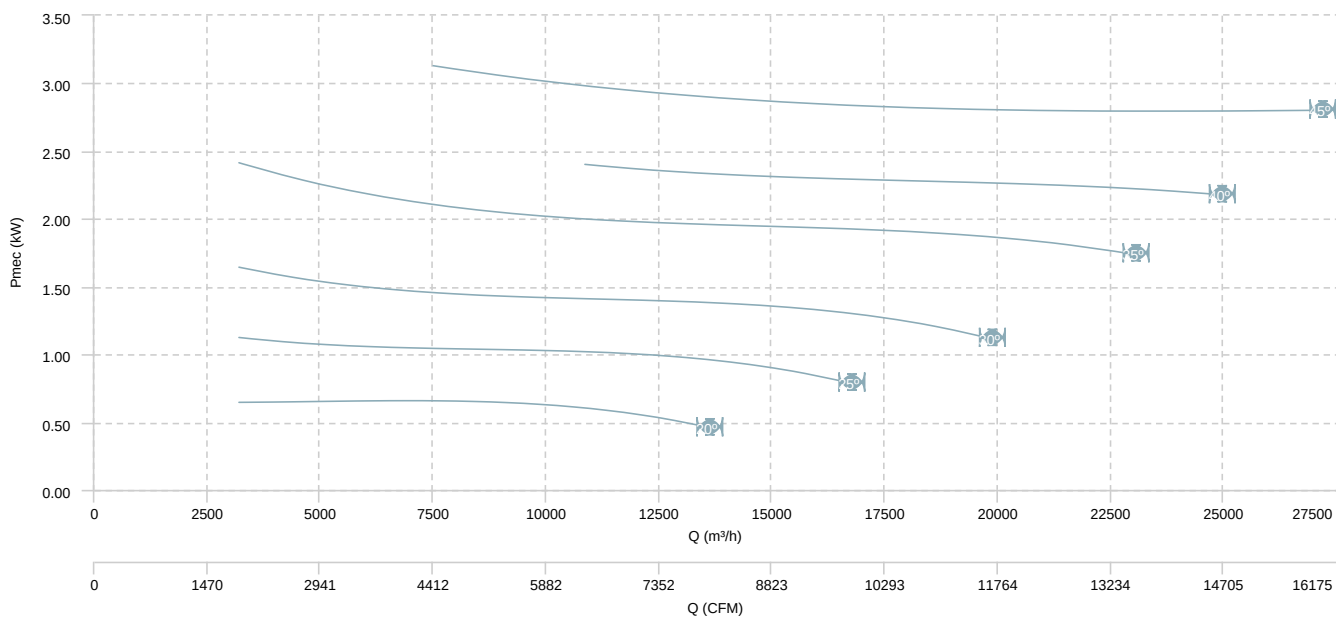


HMF 71 T4/T6 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

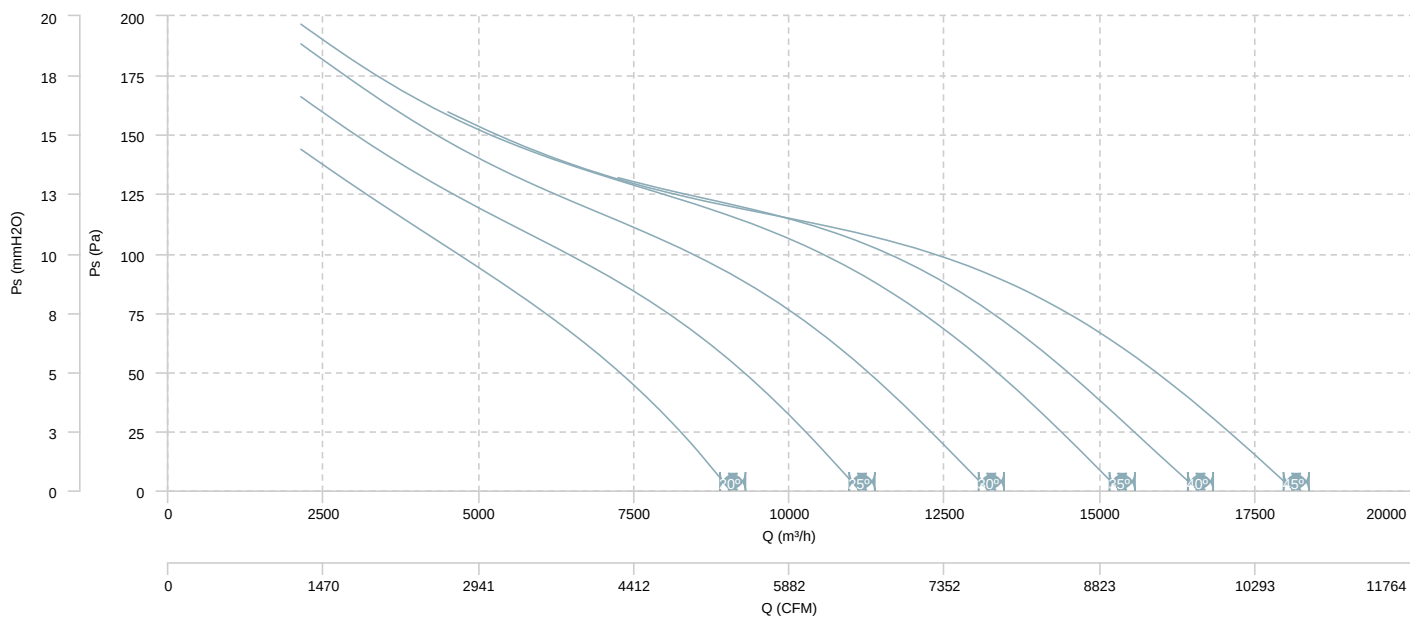


**AIR FLOW - MECHANICAL POWER (4 poles)**

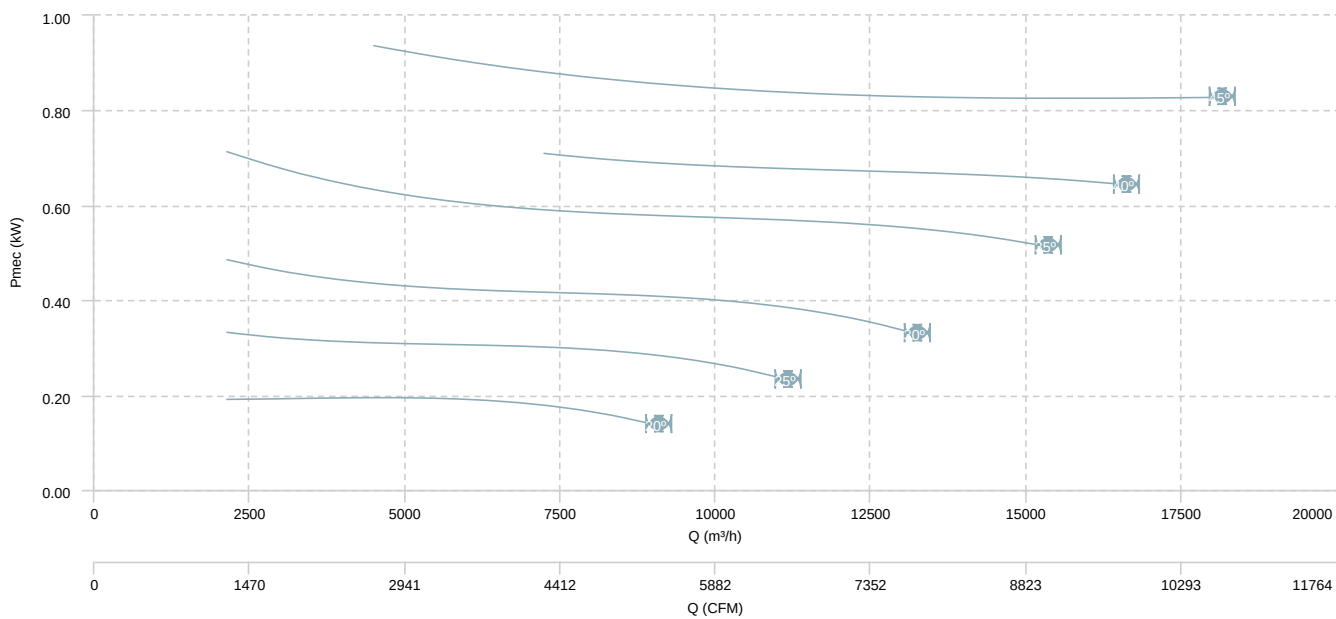


HMF 71 T4/T6 (A5:6) F400

**AIR FLOW - PRESSURE (6 poles)**

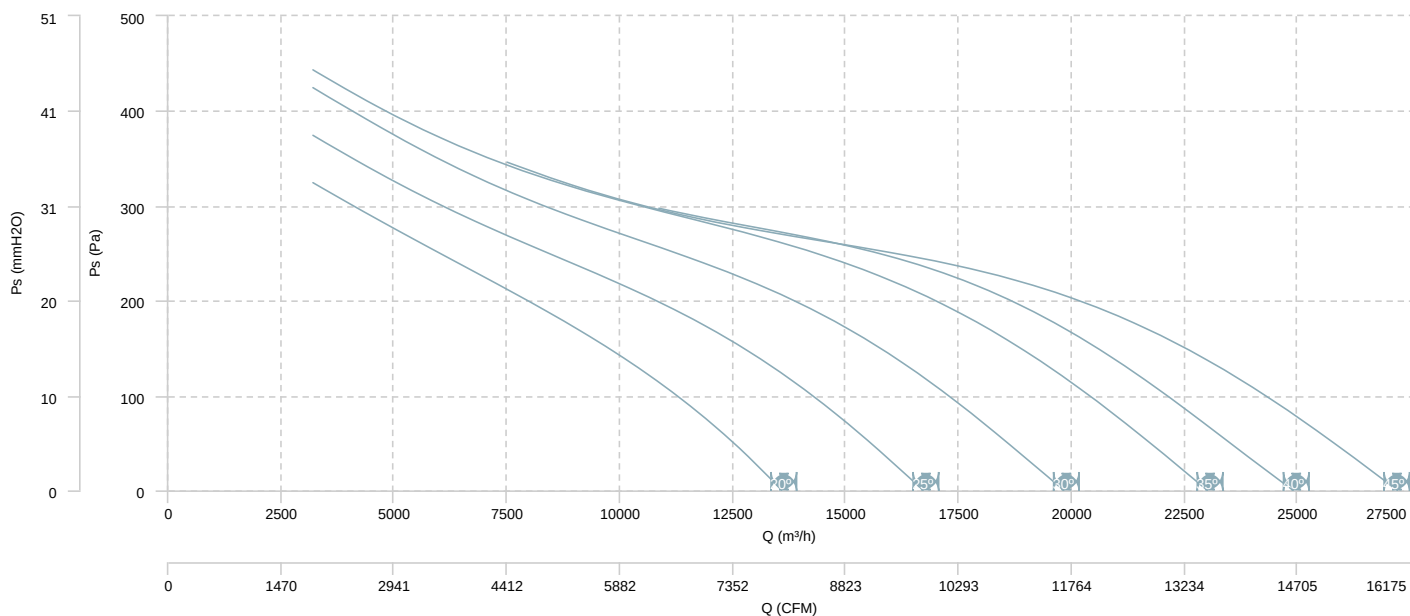


**AIR FLOW - MECHANICAL POWER (6 poles)**

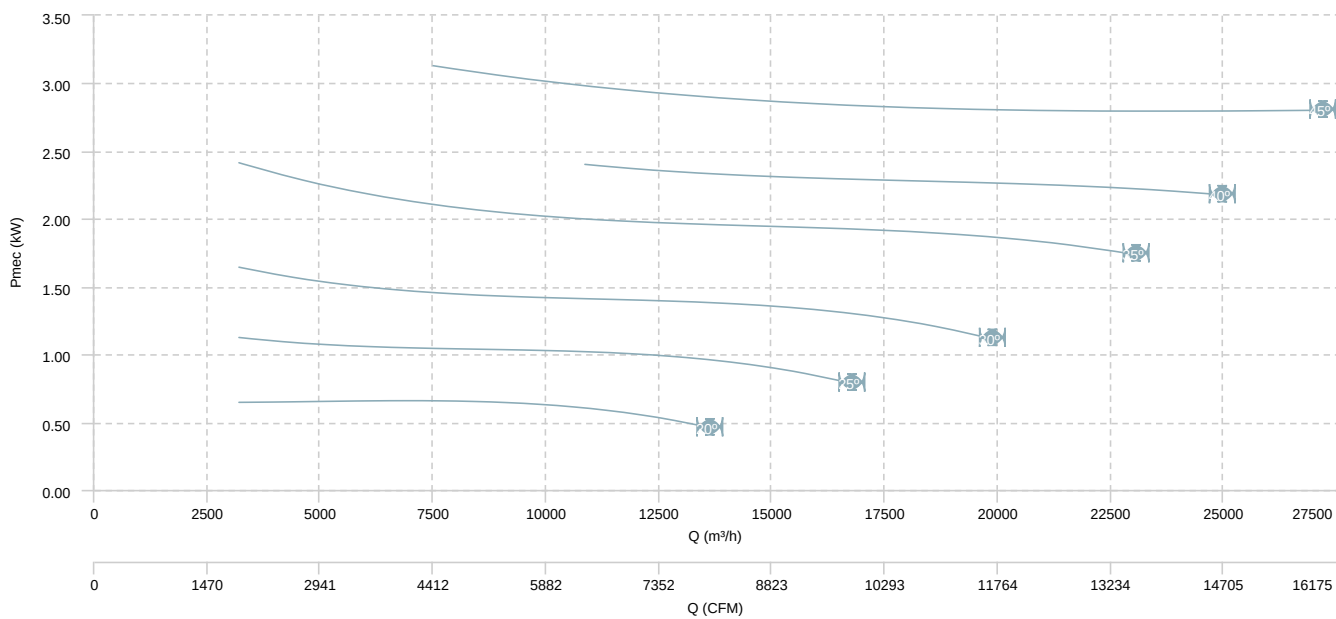


HMF 71 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

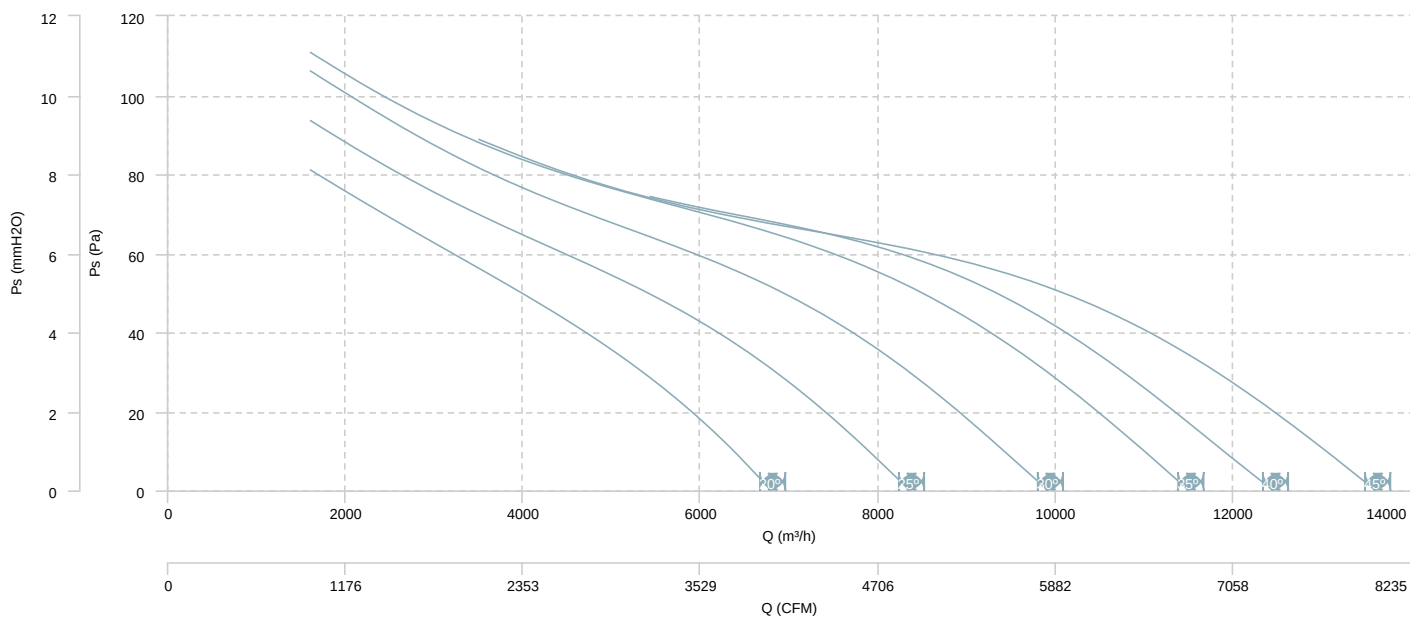


**AIR FLOW - MECHANICAL POWER (4 poles)**

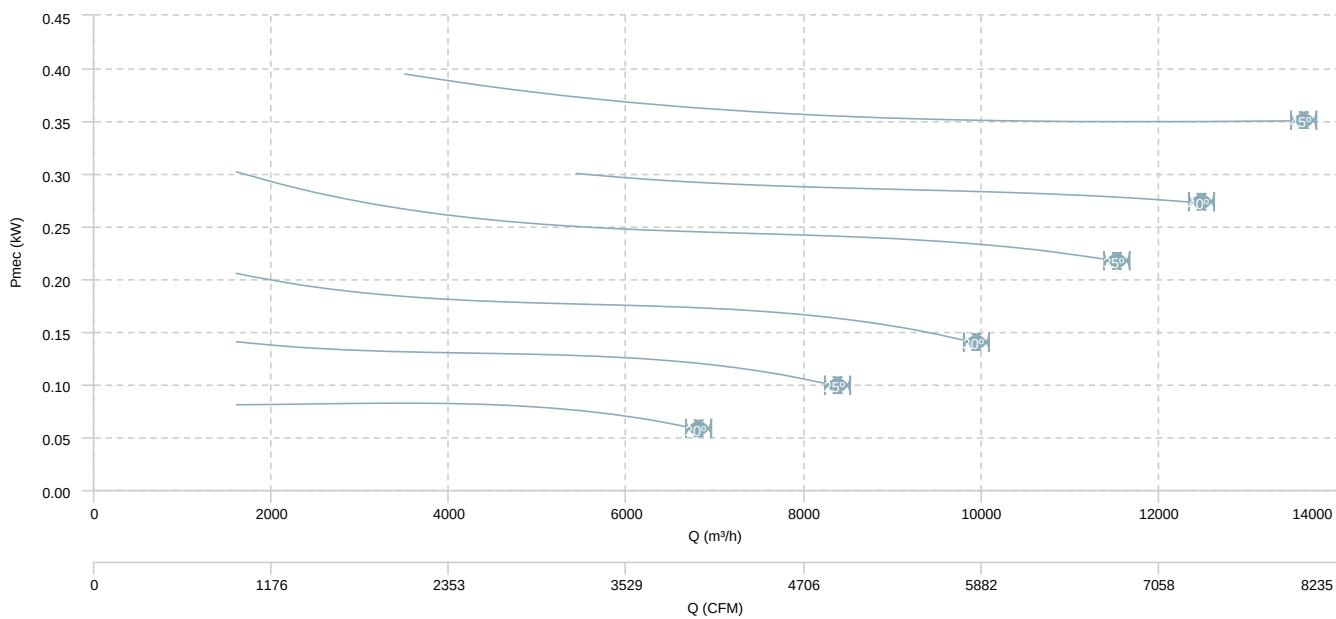


HMF 71 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (8 poles)**

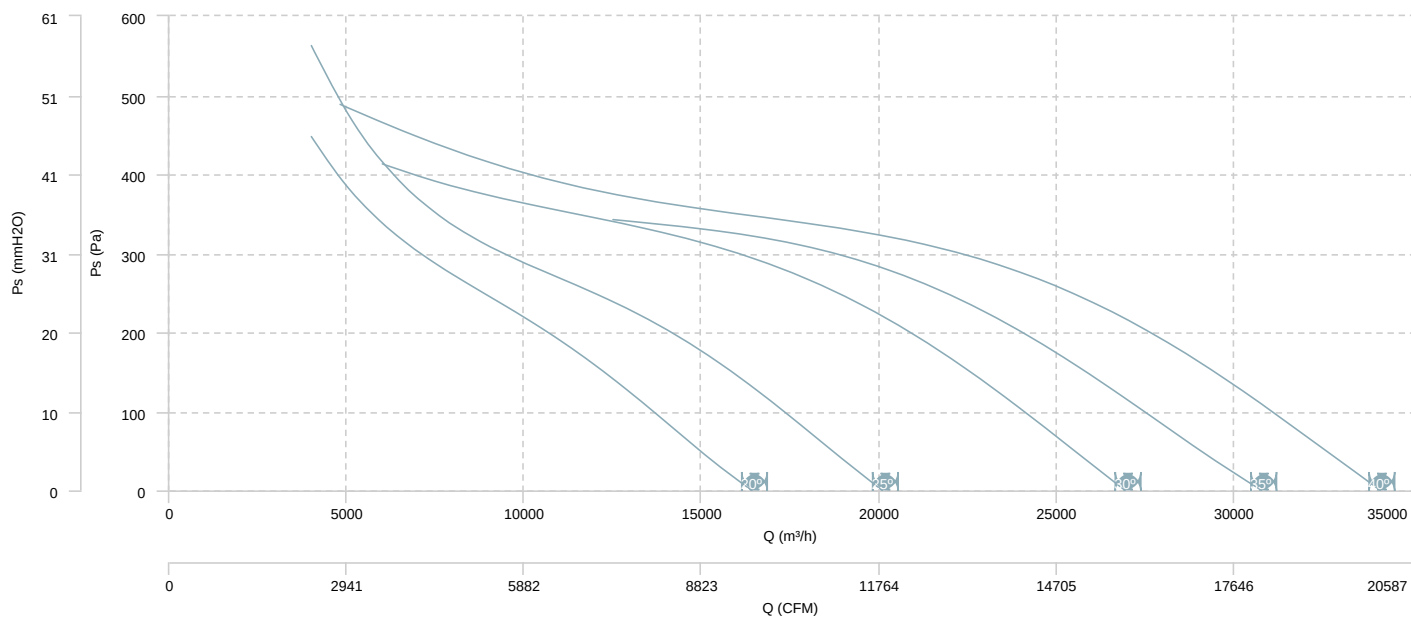


**AIR FLOW - MECHANICAL POWER (8 poles)**

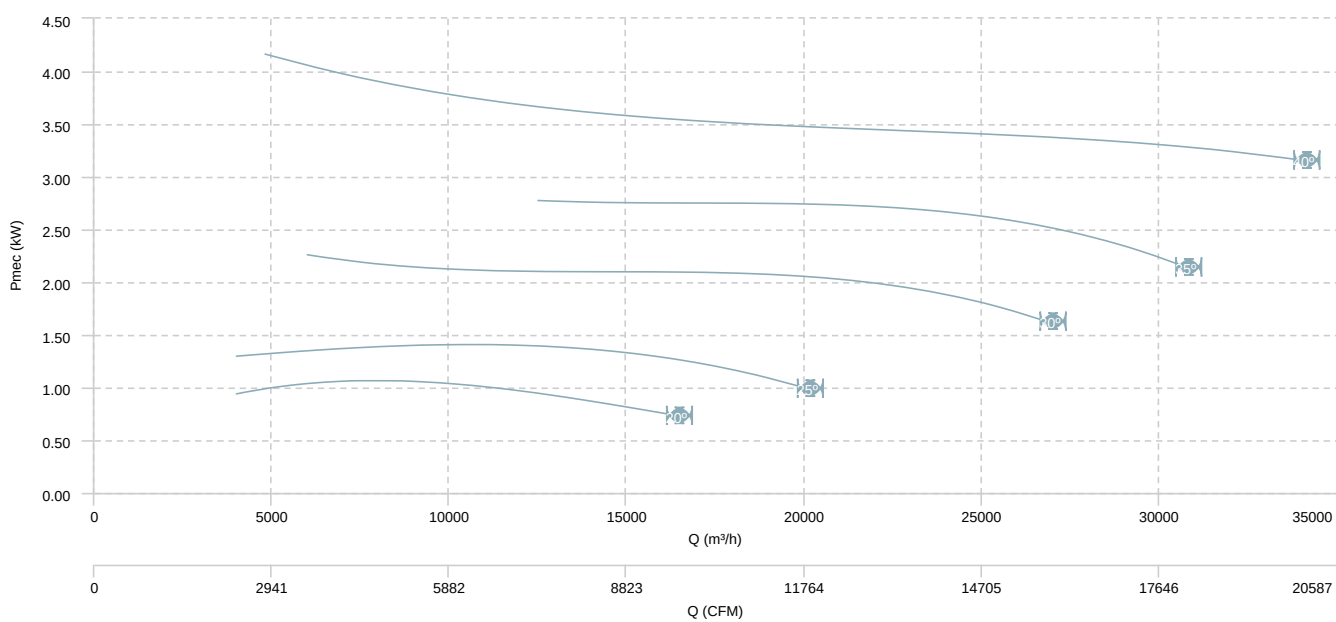


HMF 80 T4 (A5:6) F400

**AIR FLOW - PRESSURE**

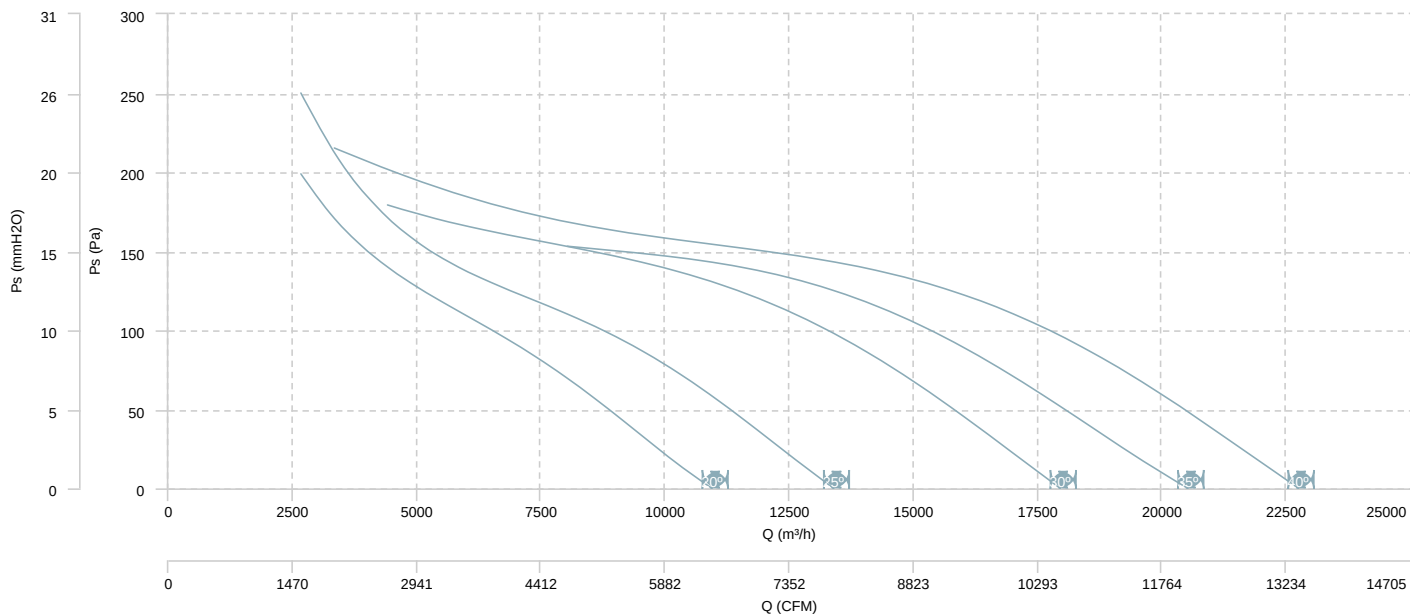


**AIR FLOW - MECHANICAL POWER**

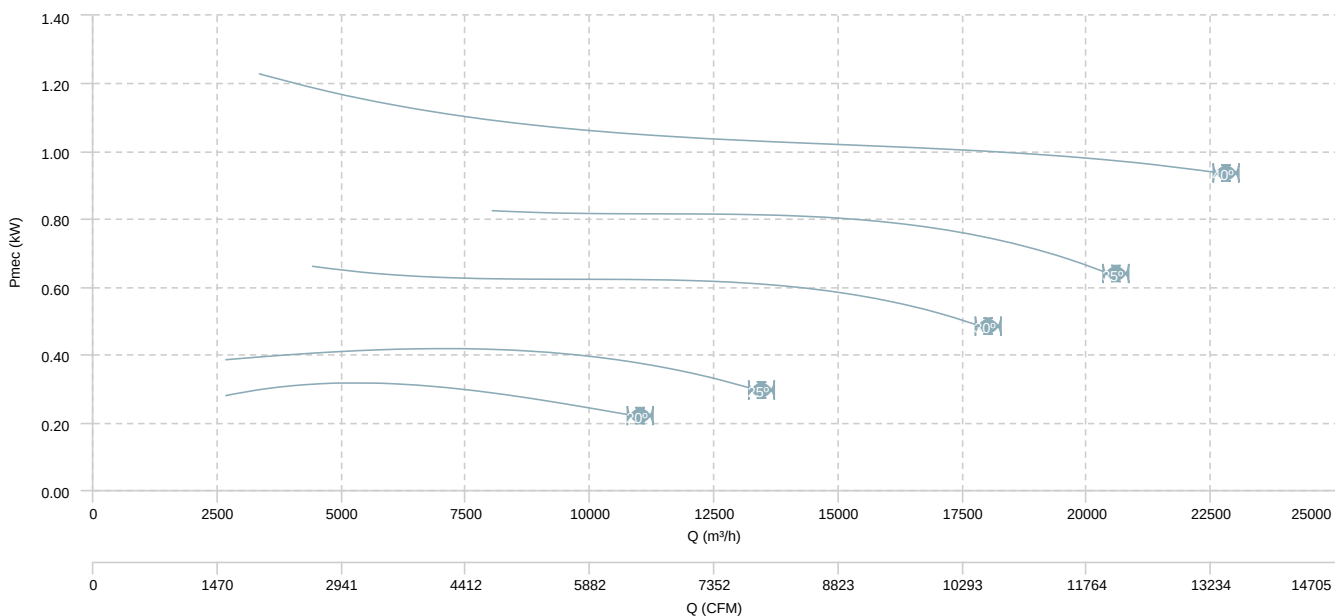


HMF 80 T6 (A5:6) F400

AIR FLOW - PRESSURE



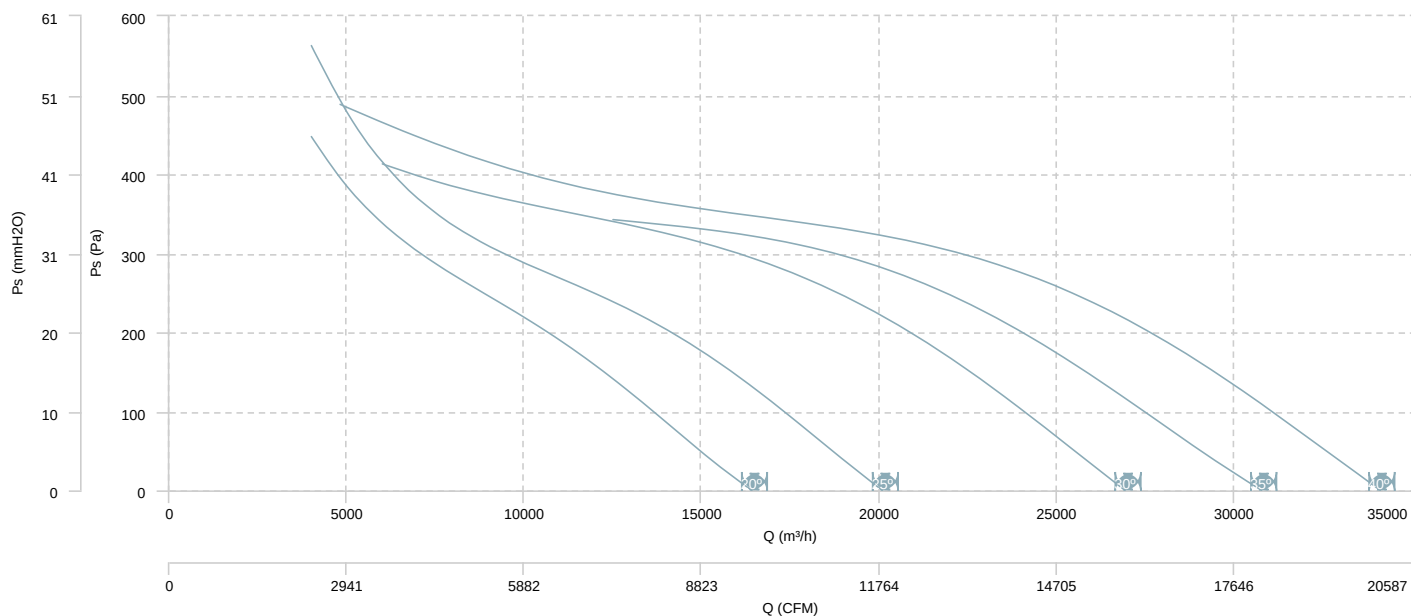
AIR FLOW - MECHANICAL POWER



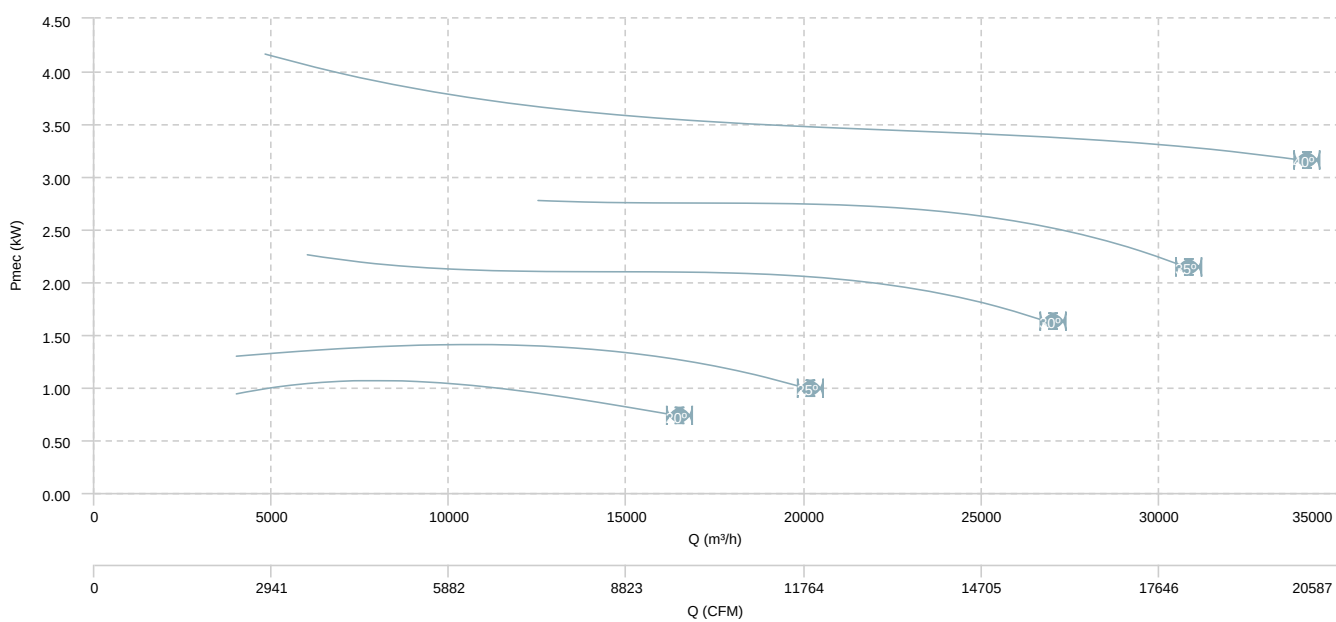


**HMF 80 T4/T6 (A5:6) F400**

**AIR FLOW - PRESSURE (4 poles)**

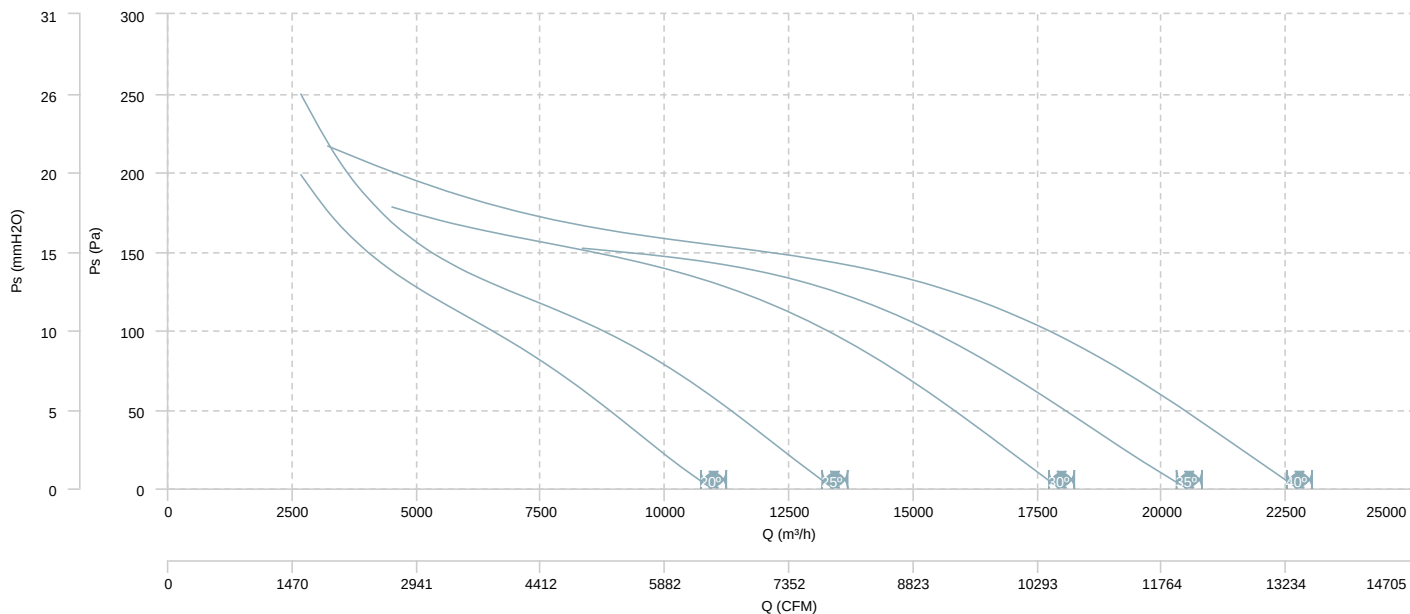


**AIR FLOW - MECHANICAL POWER (4 poles)**

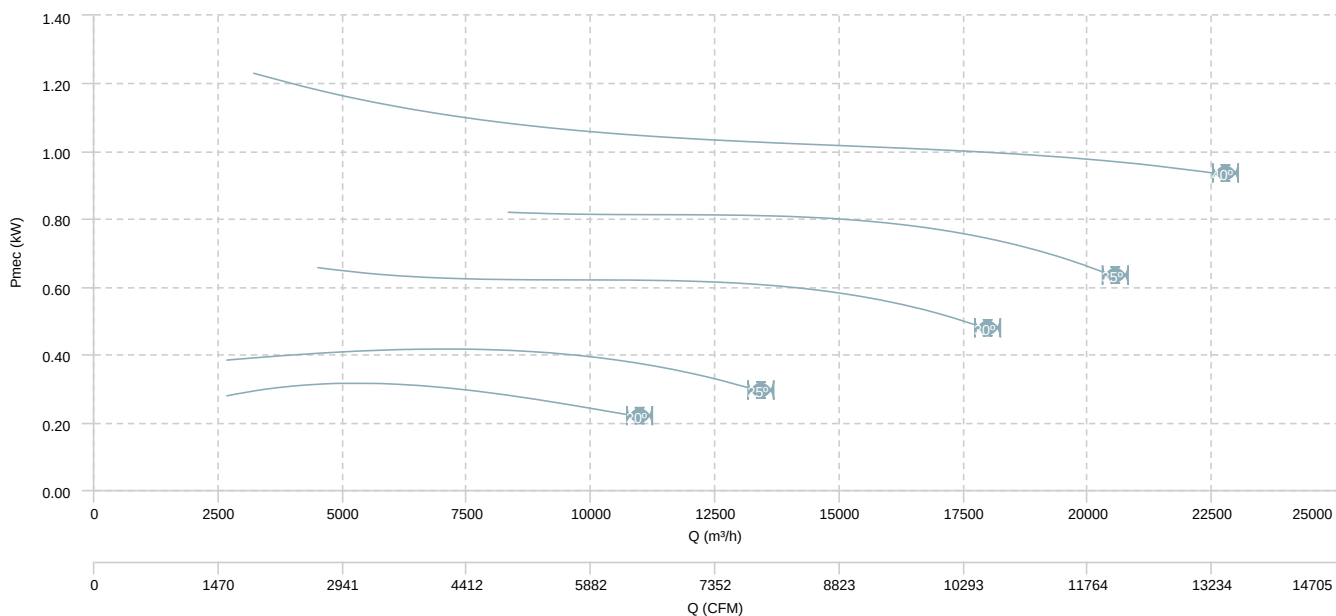


**HMF 80 T4/T6 (A5:6) F400**

**AIR FLOW - PRESSURE (6 poles)**

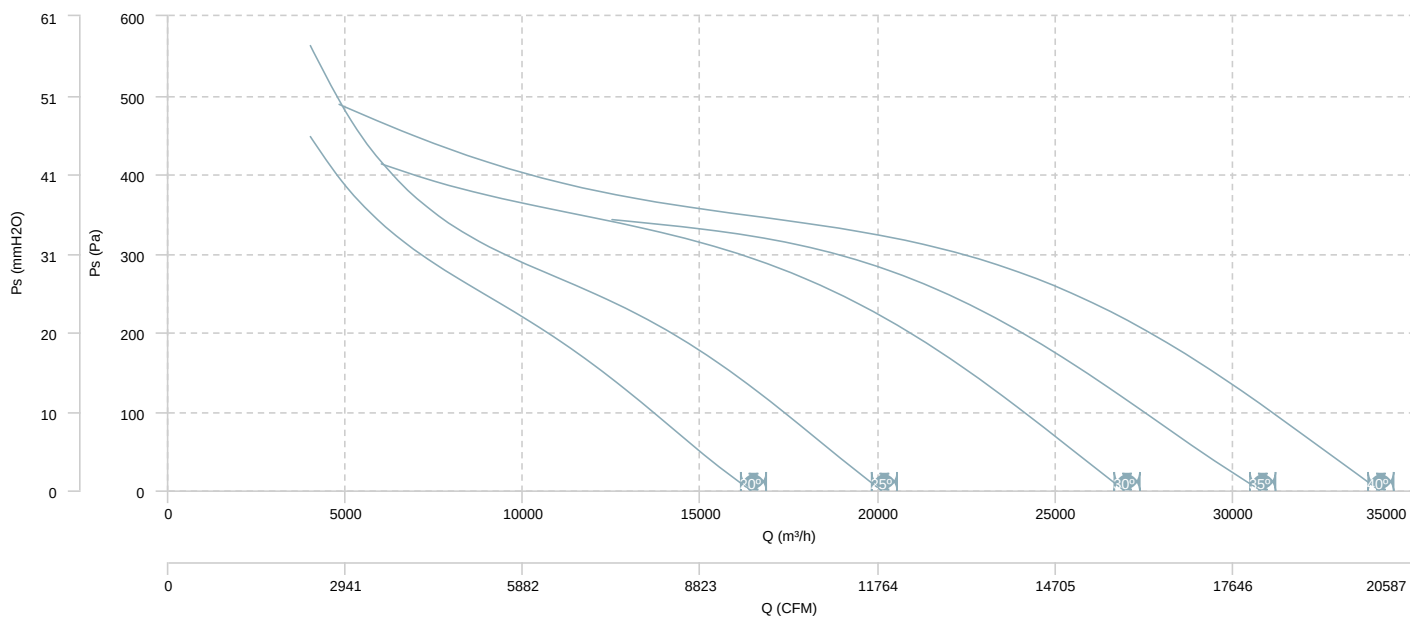


**AIR FLOW - MECHANICAL POWER (6 poles)**

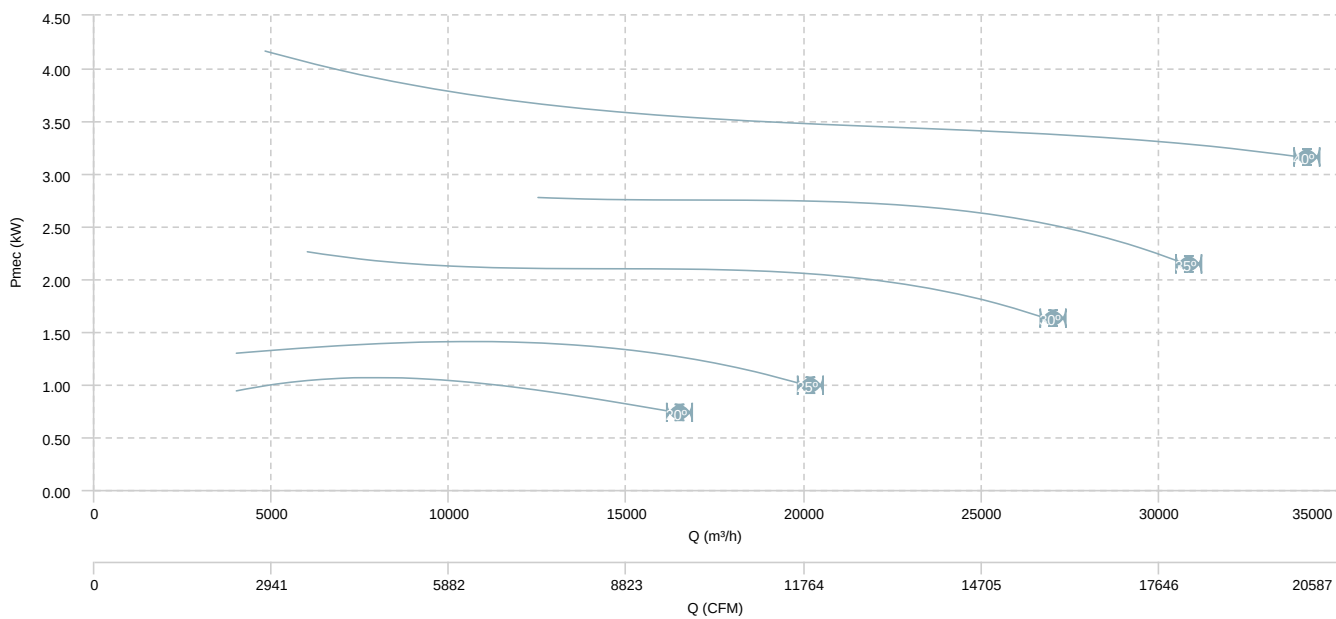


HMF 80 T4/T8 (A5:6) F400

**AIR FLOW - PRESSURE (4 poles)**

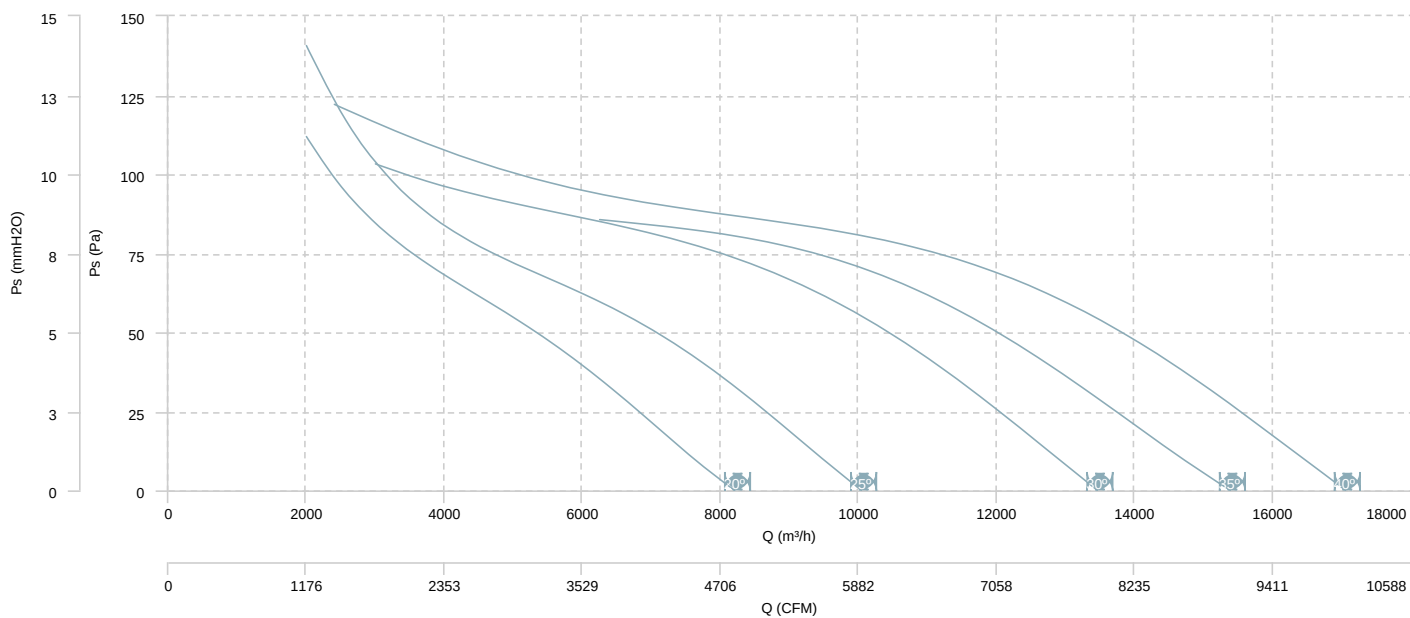


**AIR FLOW - MECHANICAL POWER (4 poles)**

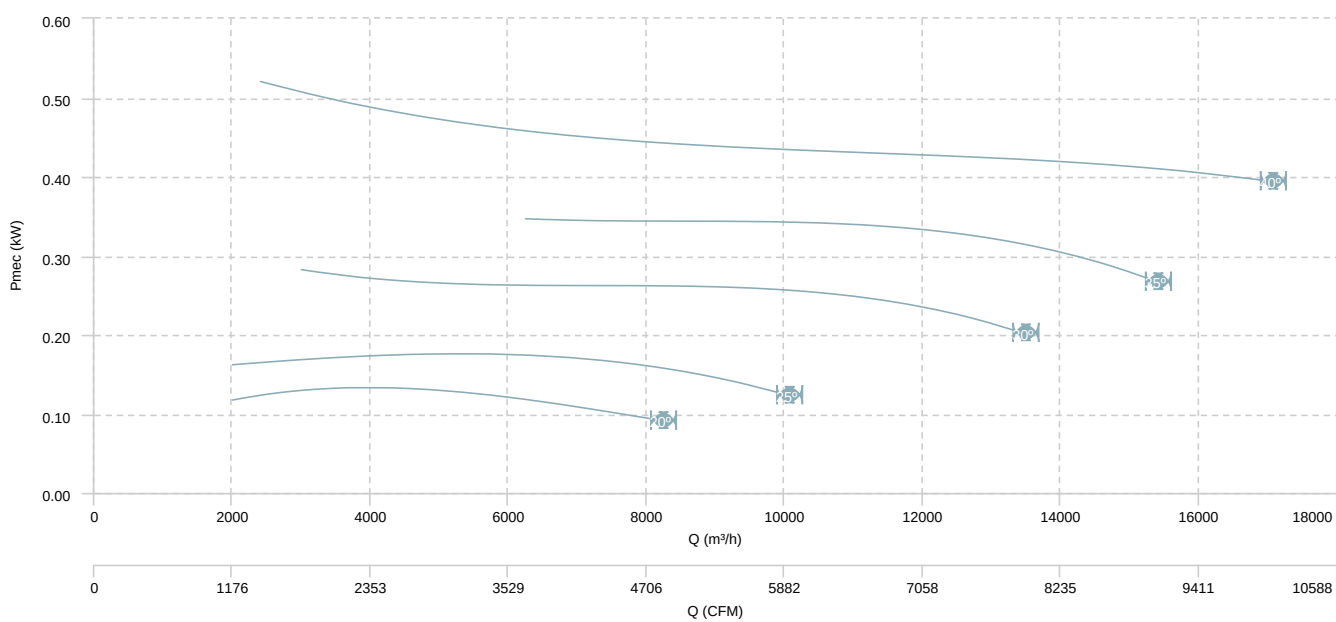


**HMF 80 T4/T8 (A5:6) F400**

**AIR FLOW - PRESSURE (8 poles)**

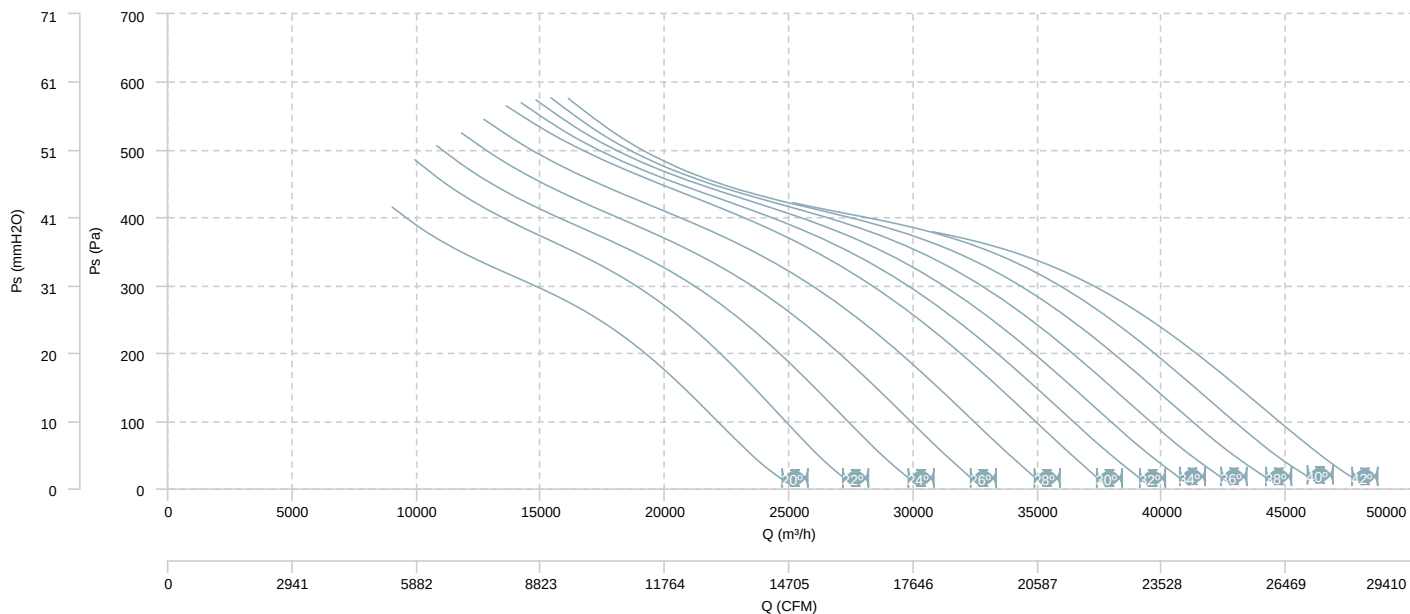


**AIR FLOW - MECHANICAL POWER (8 poles)**

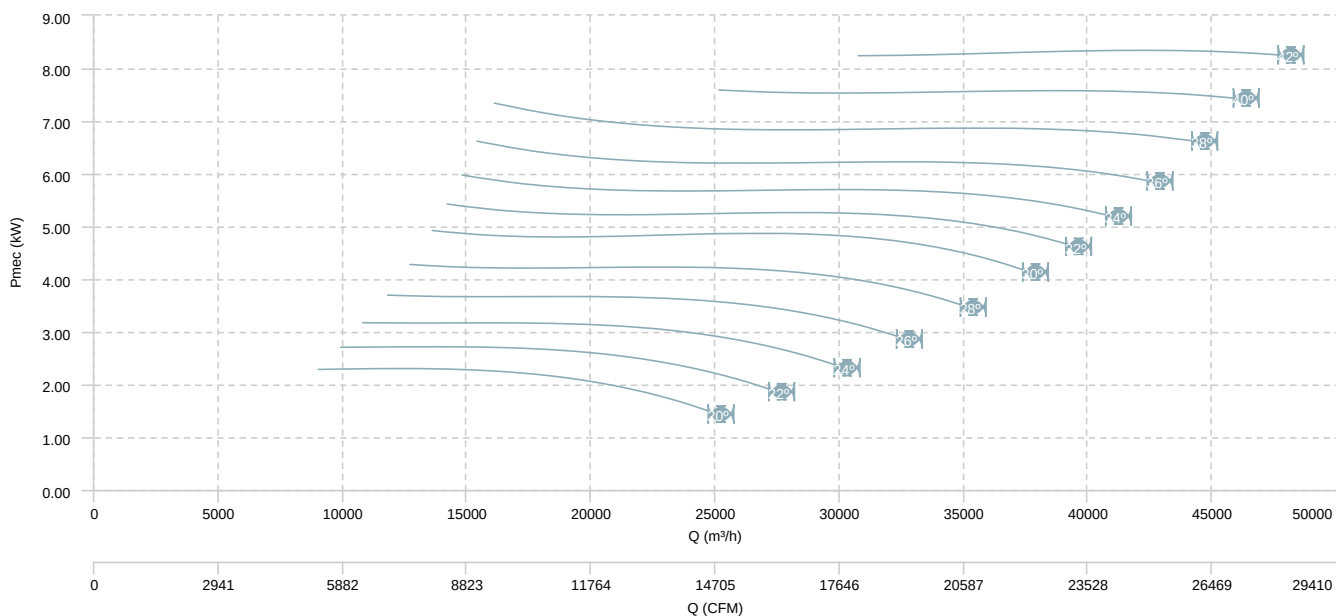


HMF 90 T4 (A3:4) F400

## AIR FLOW - PRESSURE

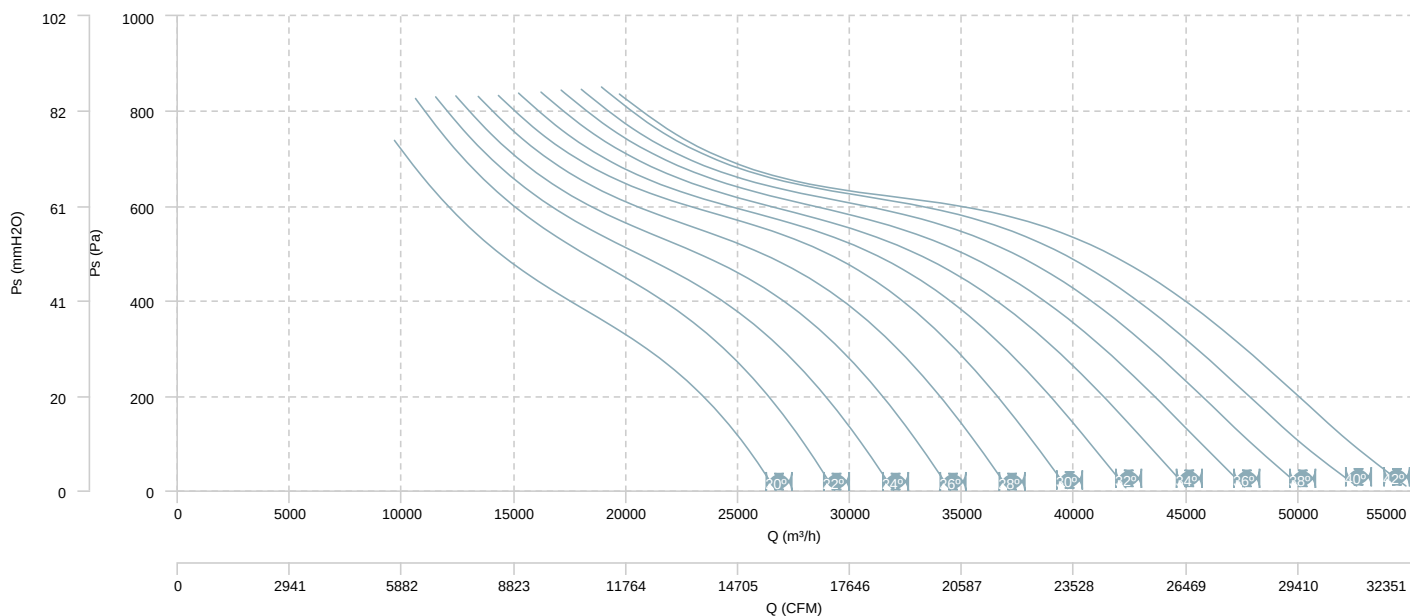


## AIR FLOW - MECHANICAL POWER

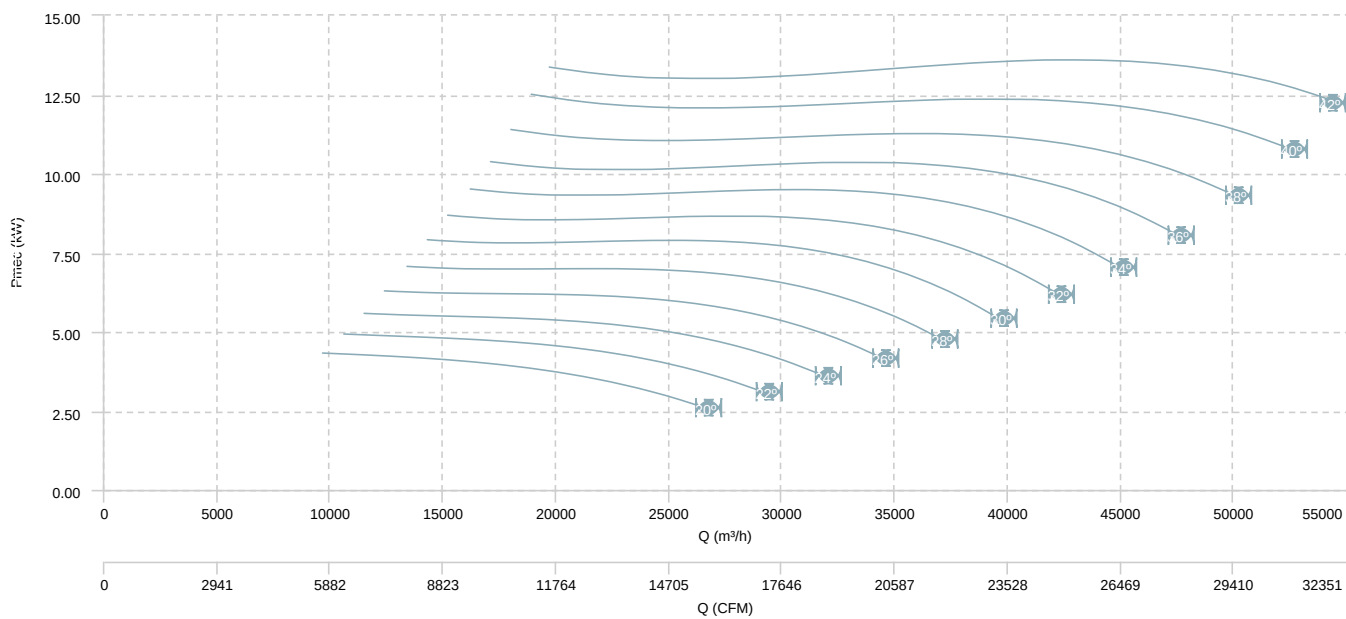


HMF 90 T4 (A3:8) F400

AIR FLOW - PRESSURE

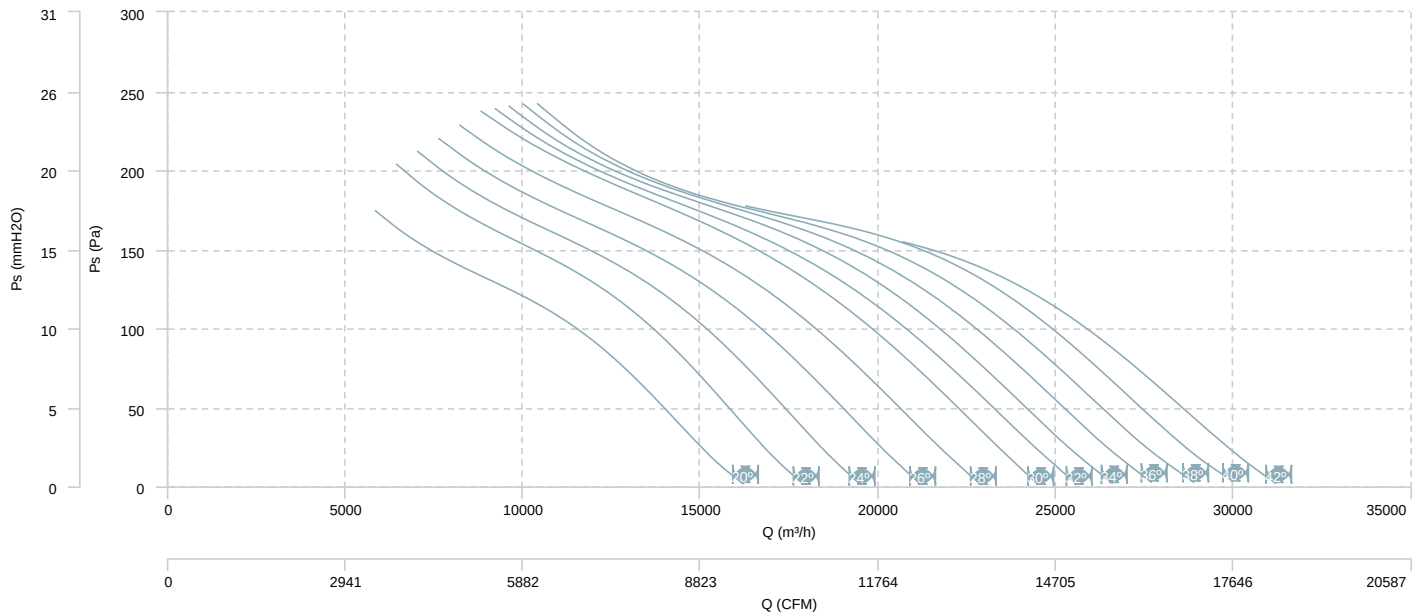


AIR FLOW - MECHANICAL POWER

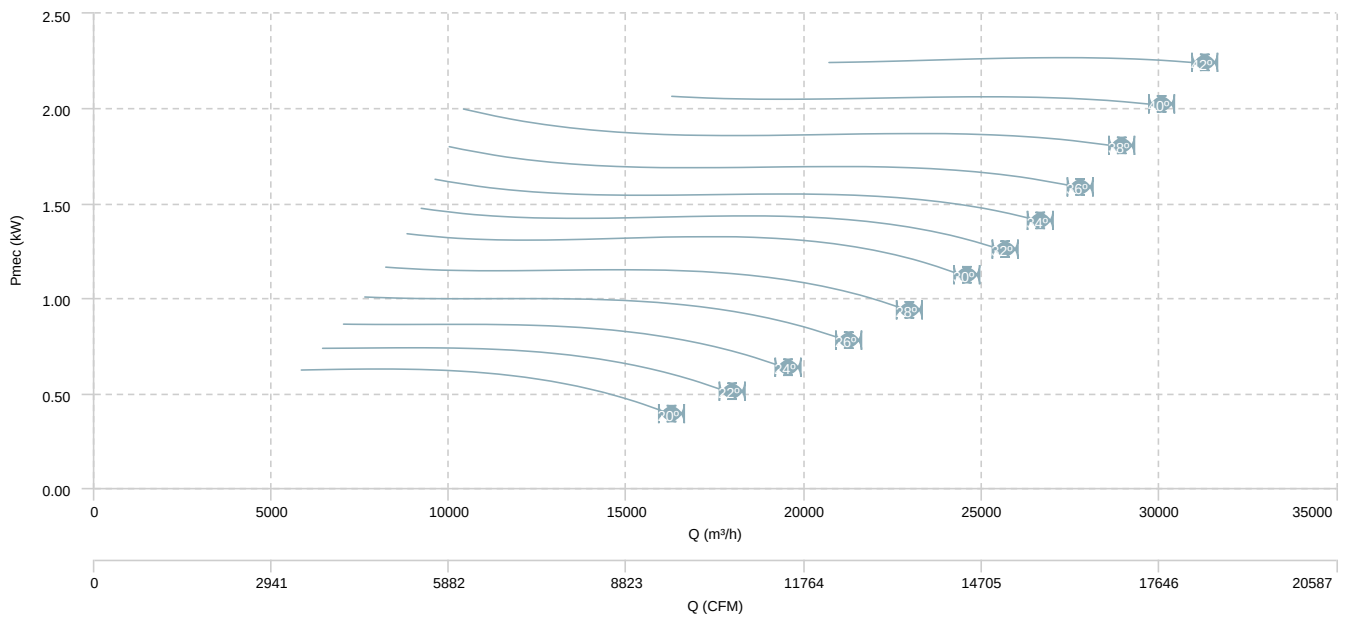


HMF 90 T6 (A3:4) F400

**AIR FLOW - PRESSURE**

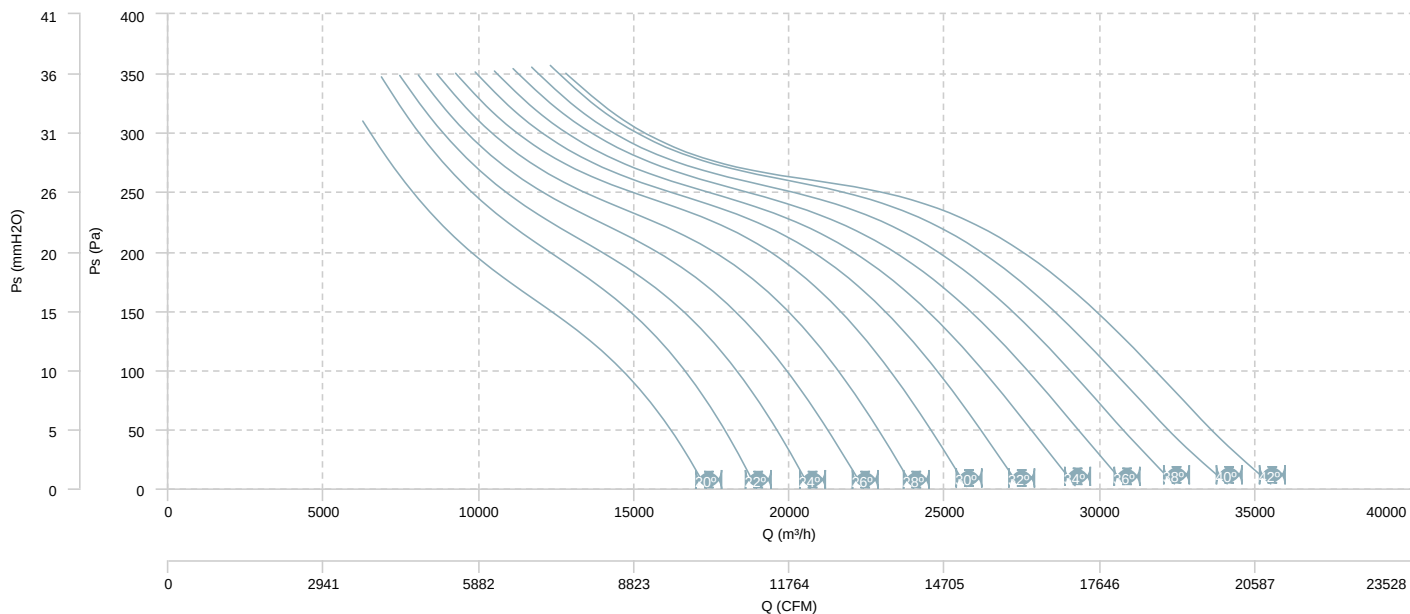


**AIR FLOW - MECHANICAL POWER**

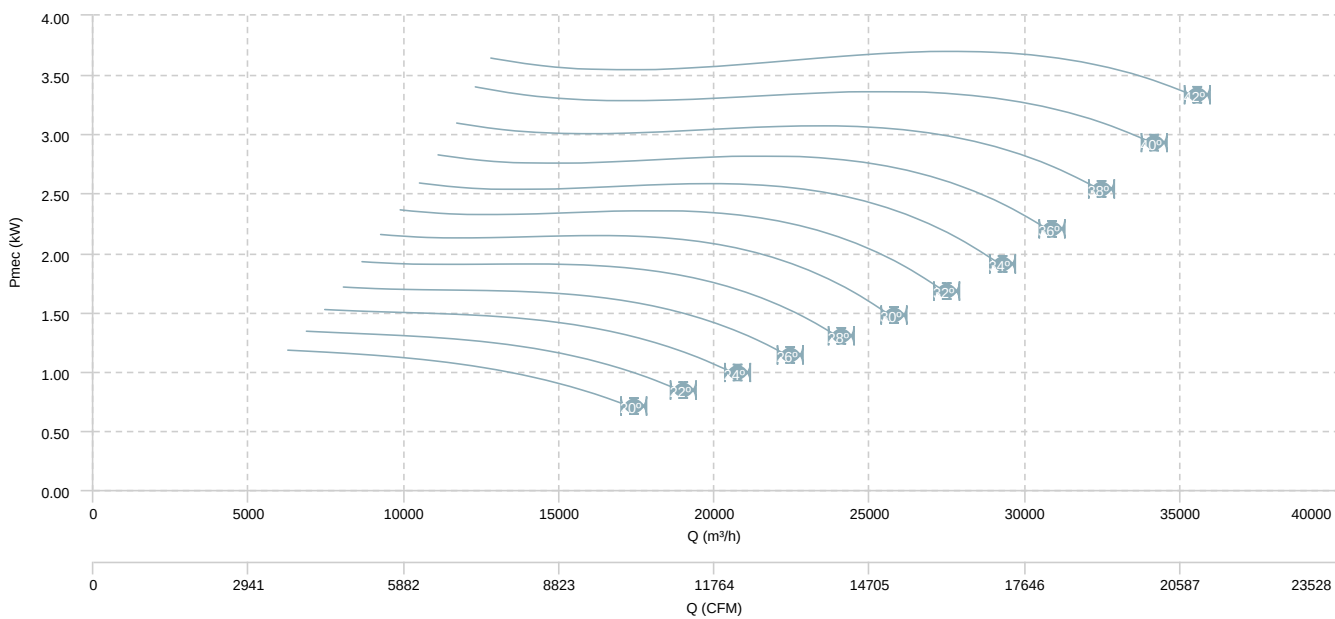


HMF 90 T6 (A3:8) F400

**AIR FLOW - PRESSURE**



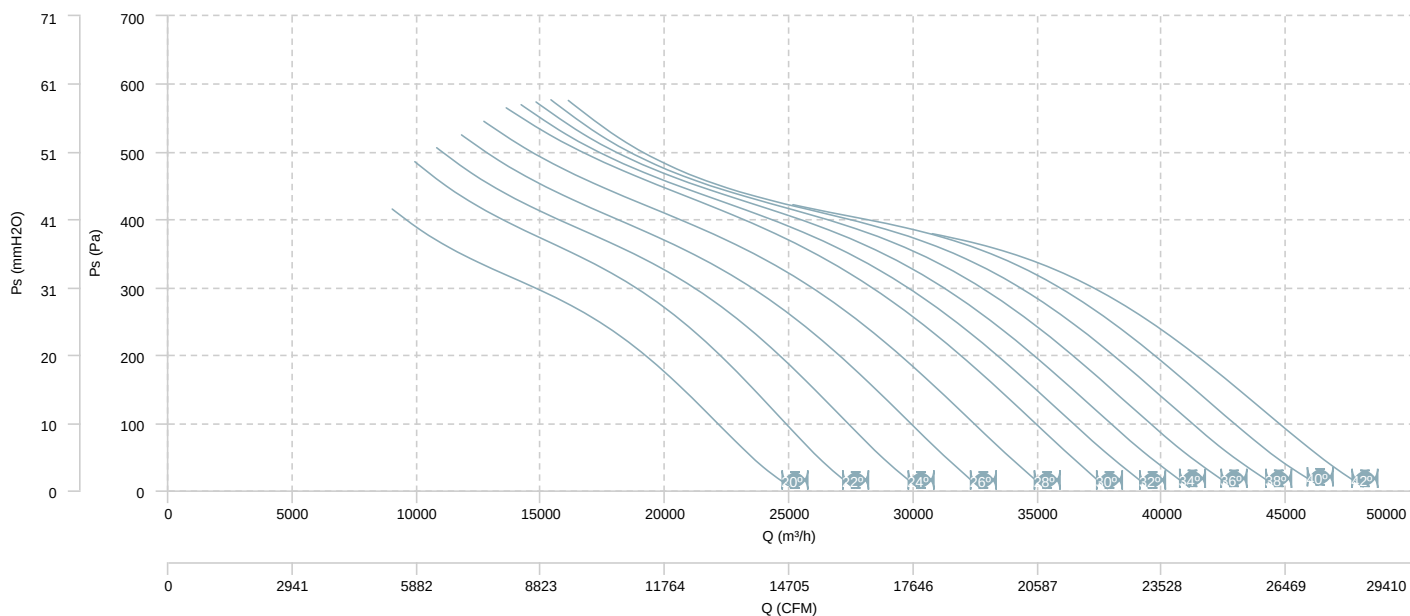
**AIR FLOW - MECHANICAL POWER**



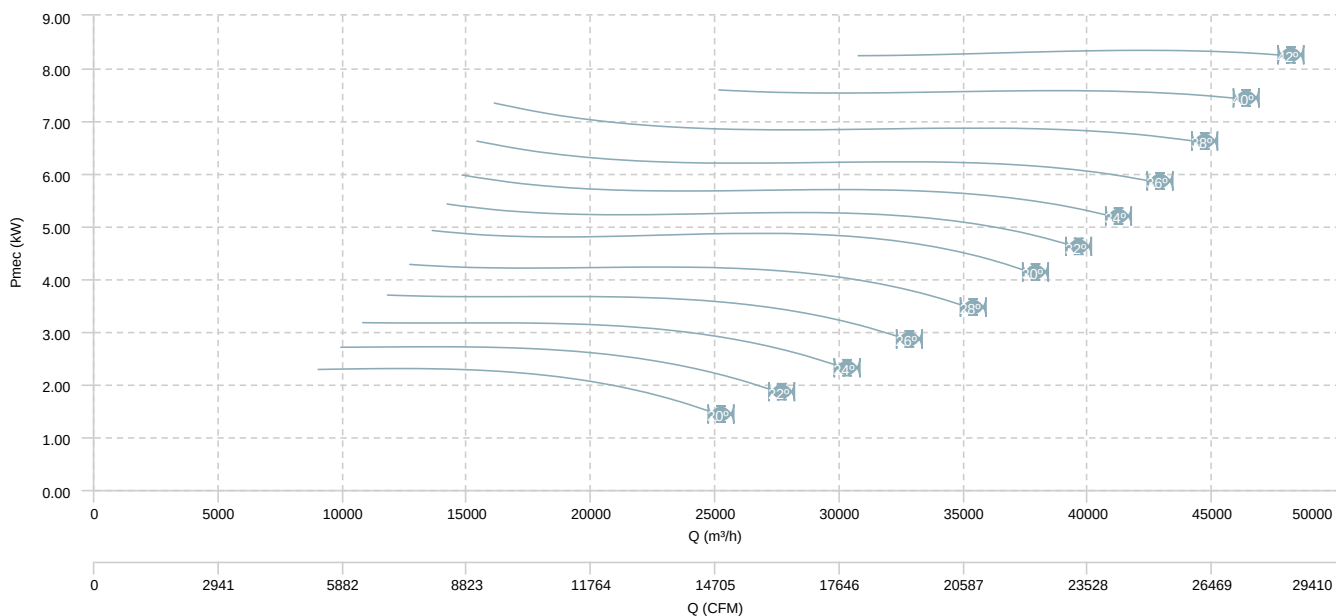


HMF 90 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

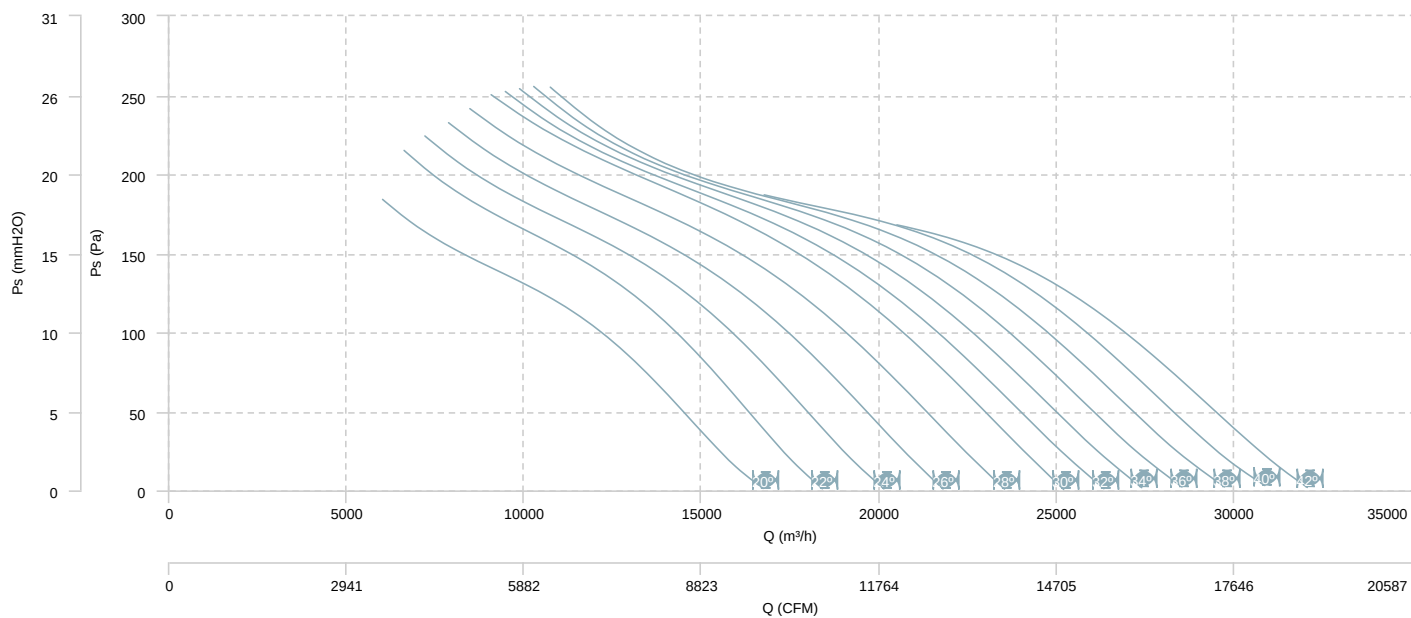


**AIR FLOW - MECHANICAL POWER (4 poles)**

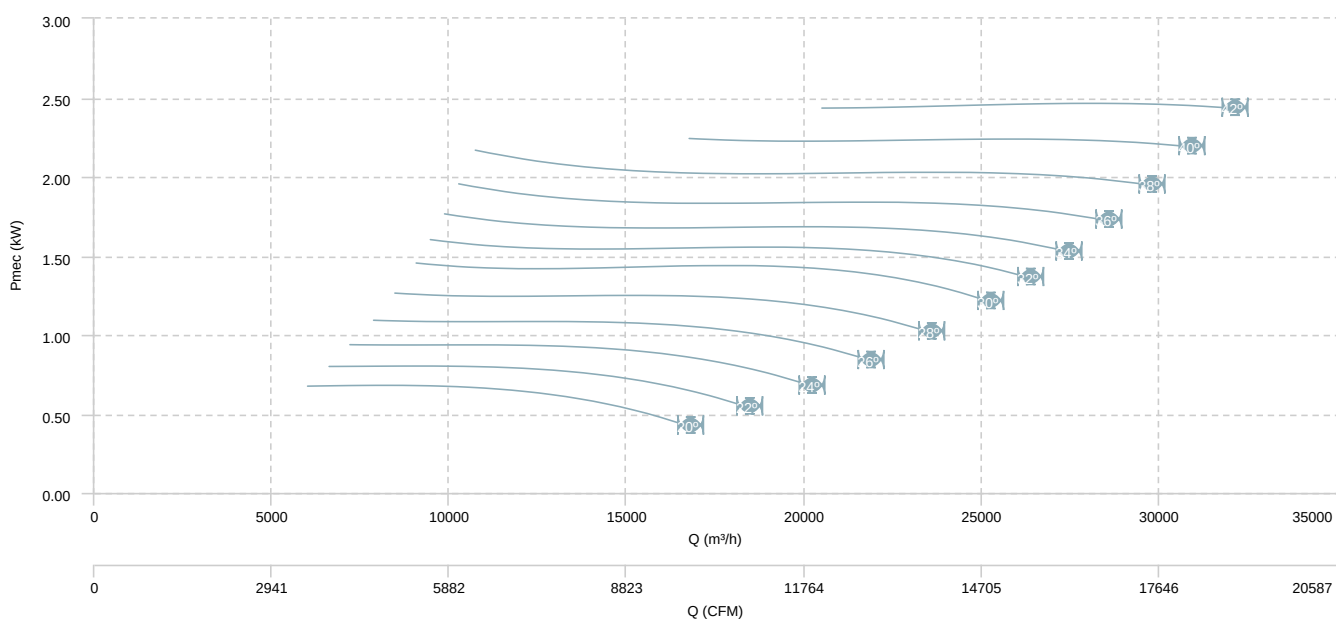


HMF 90 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (6 poles)**

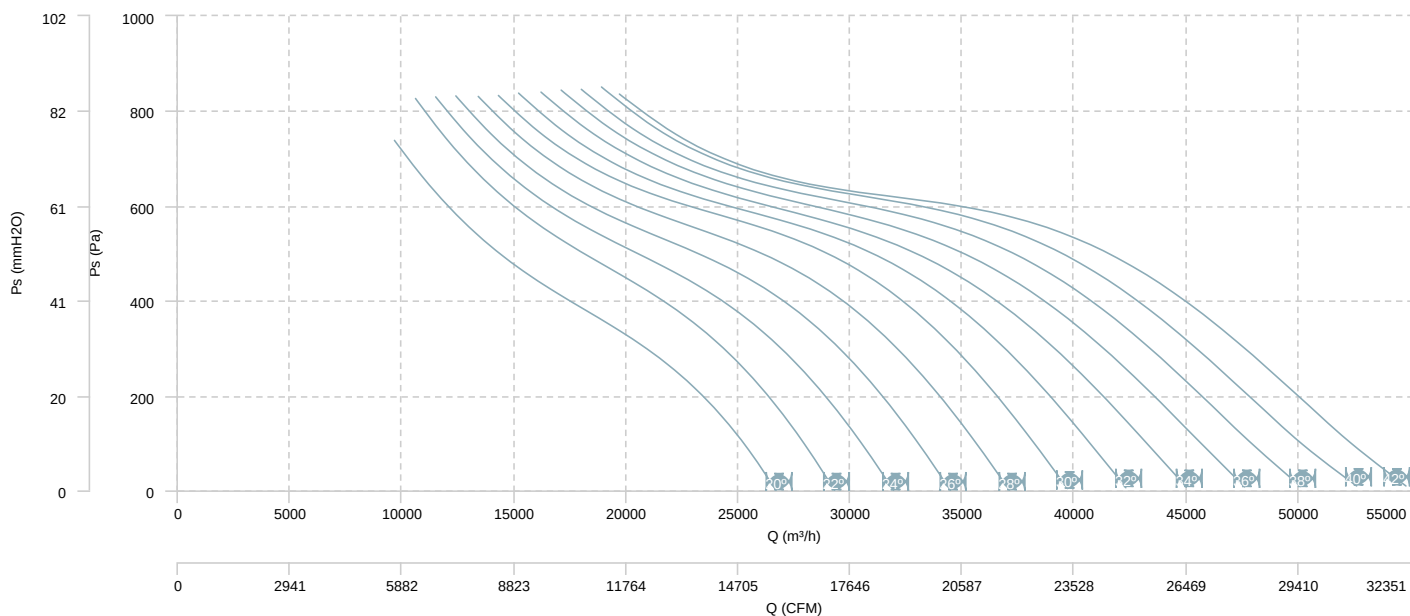


**AIR FLOW - MECHANICAL POWER (6 poles)**

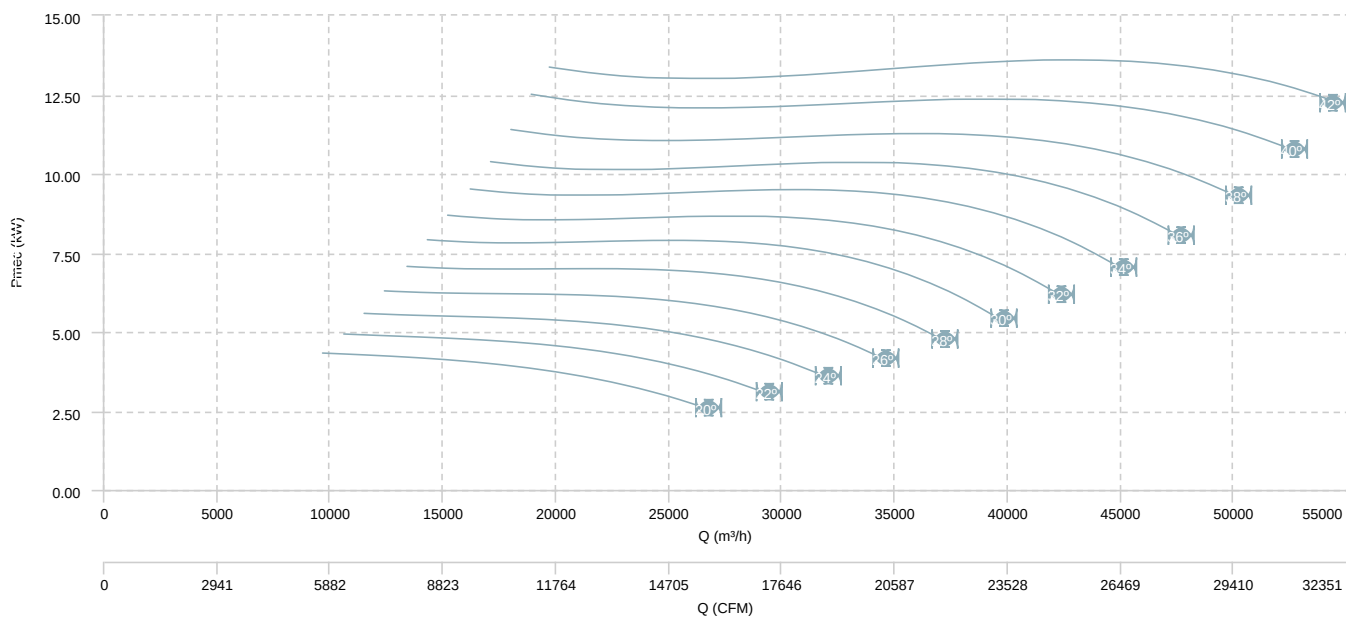


HMF 90 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

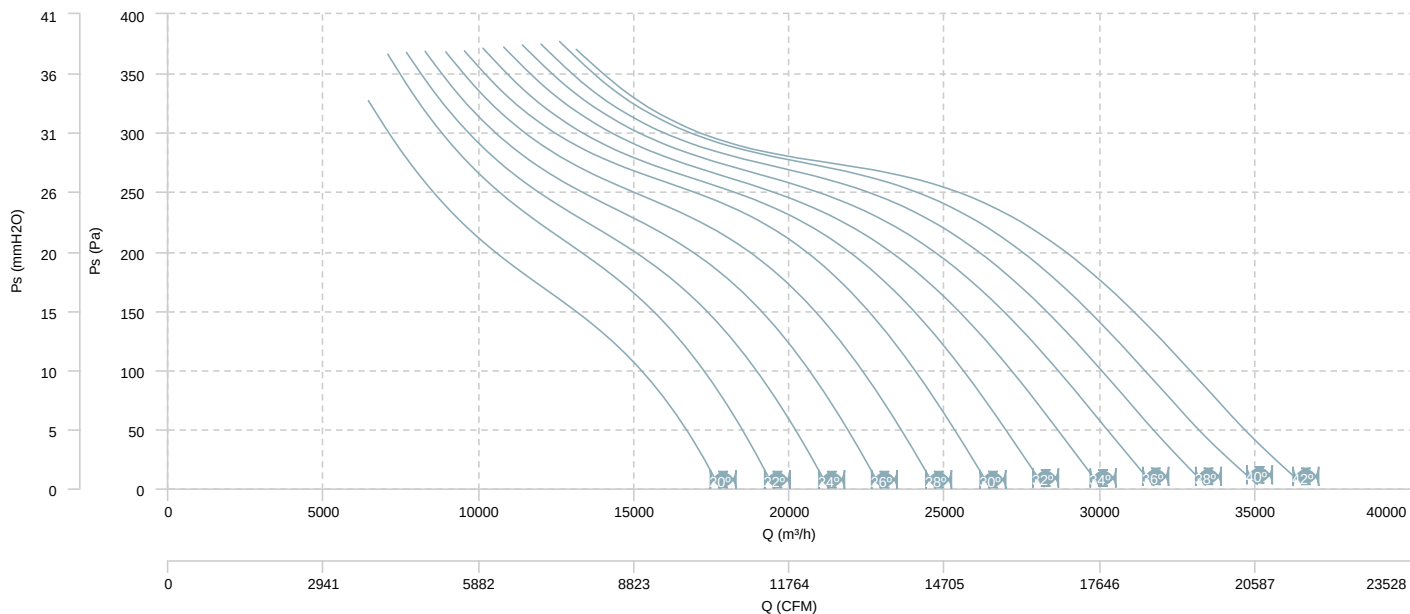


**AIR FLOW - MECHANICAL POWER (4 poles)**

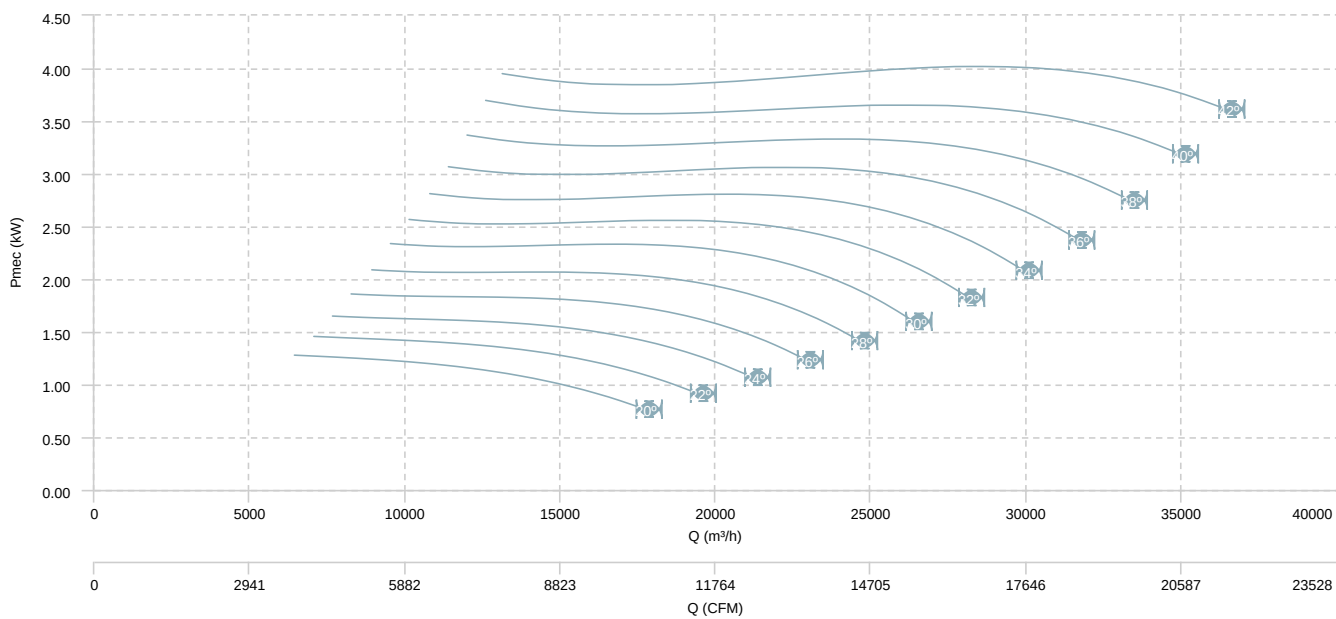


HMF 90 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (6 poles)**

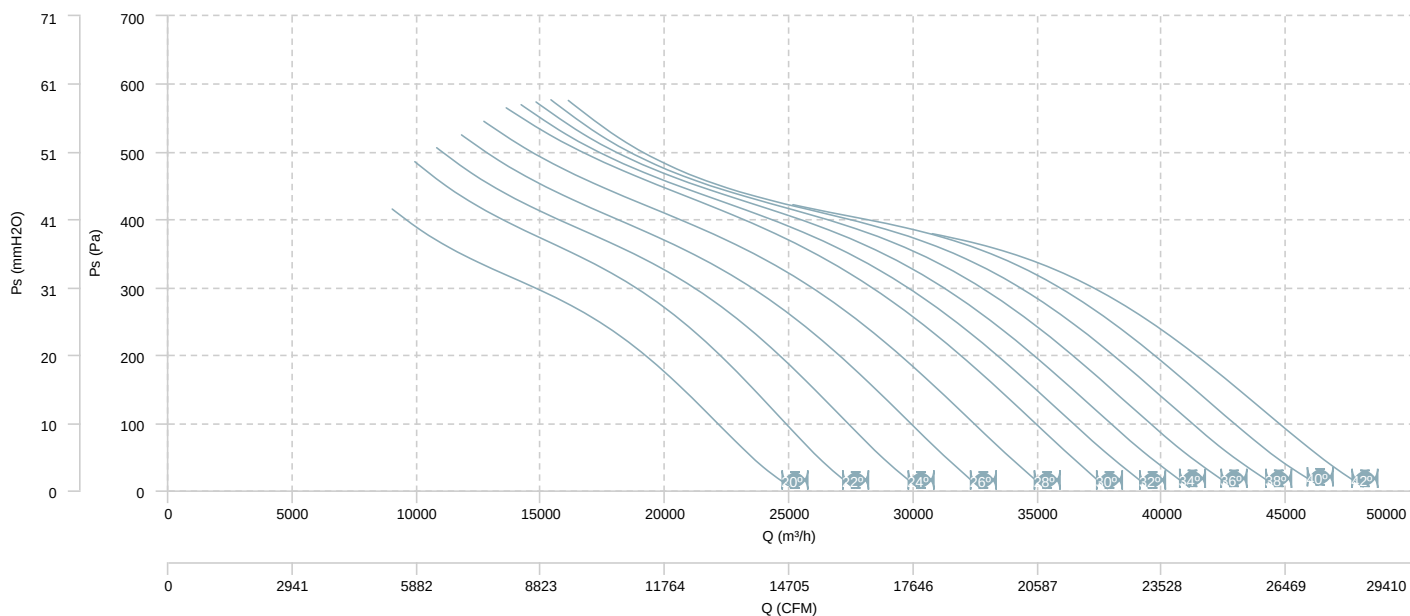


**AIR FLOW - MECHANICAL POWER (6 poles)**

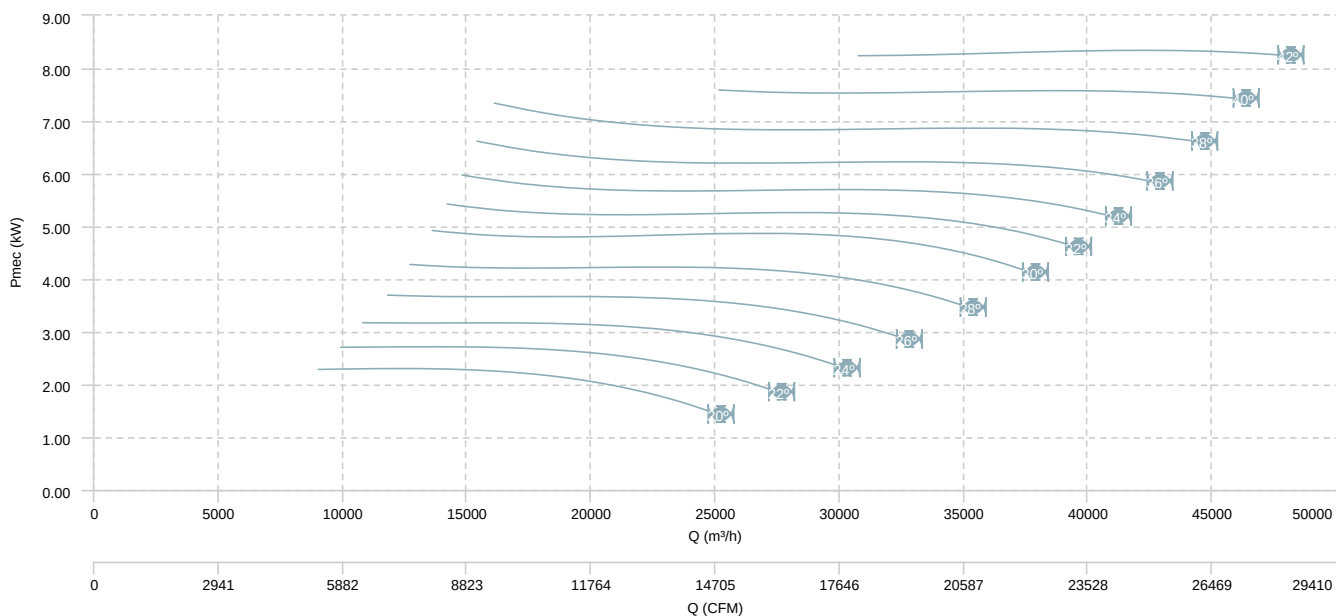


HMF 90 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

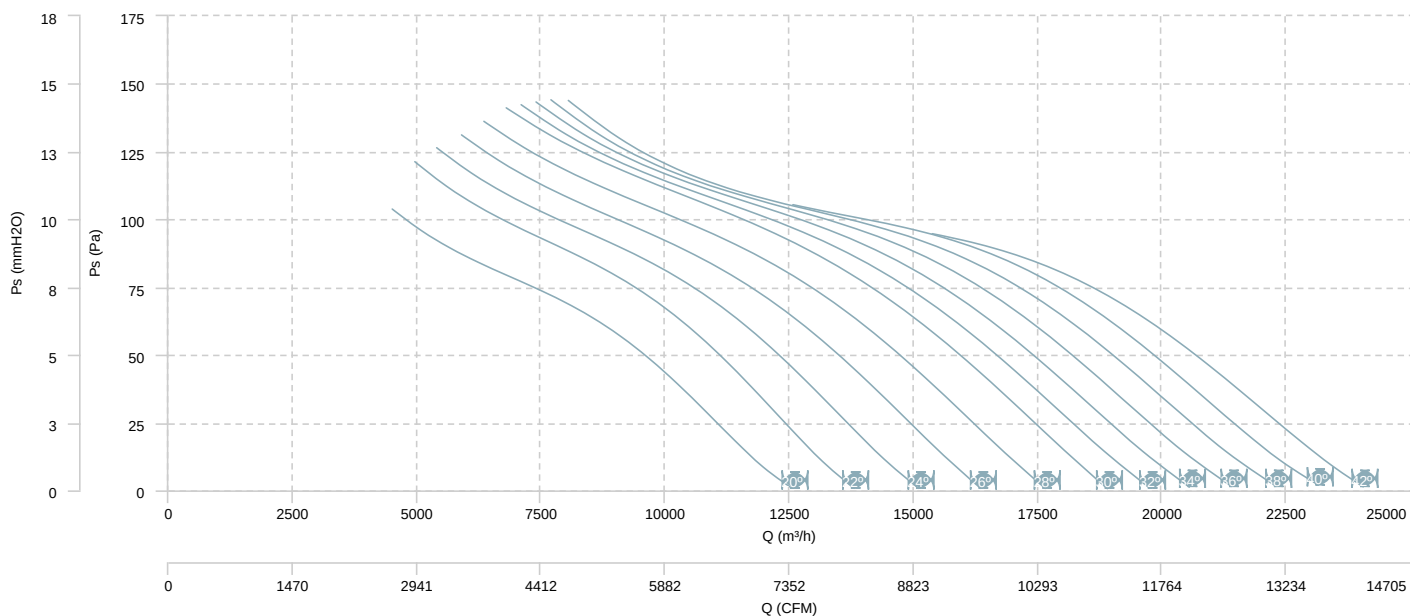


**AIR FLOW - MECHANICAL POWER (4 poles)**

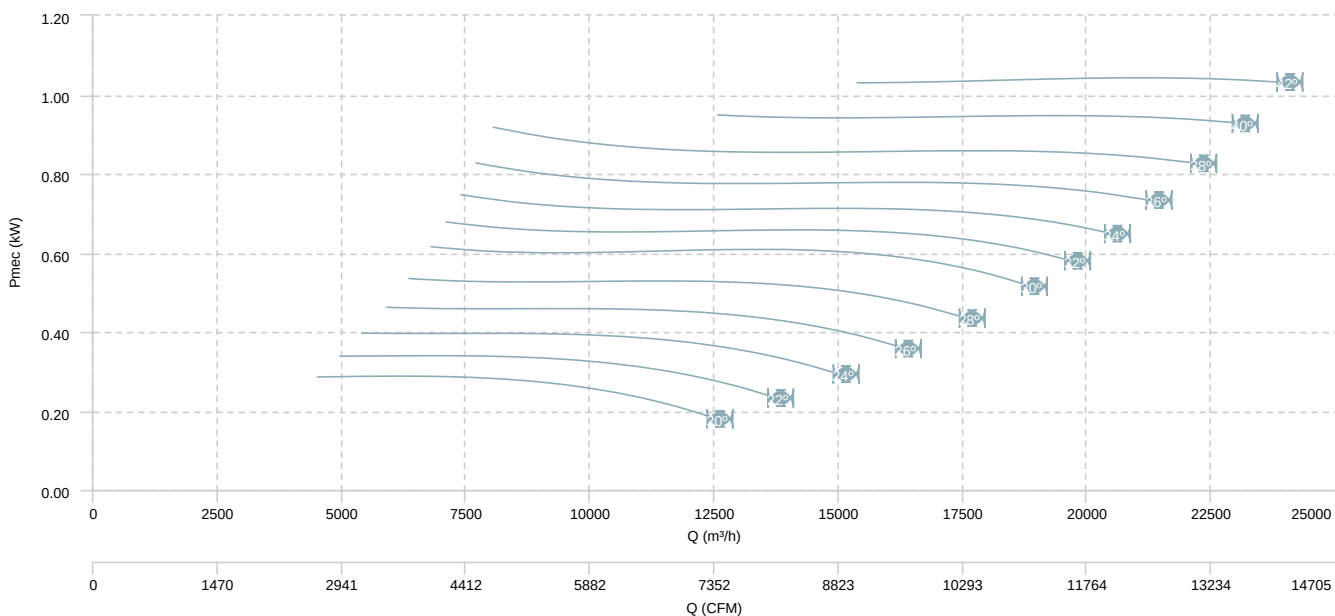


HMF 90 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (8 poles)**

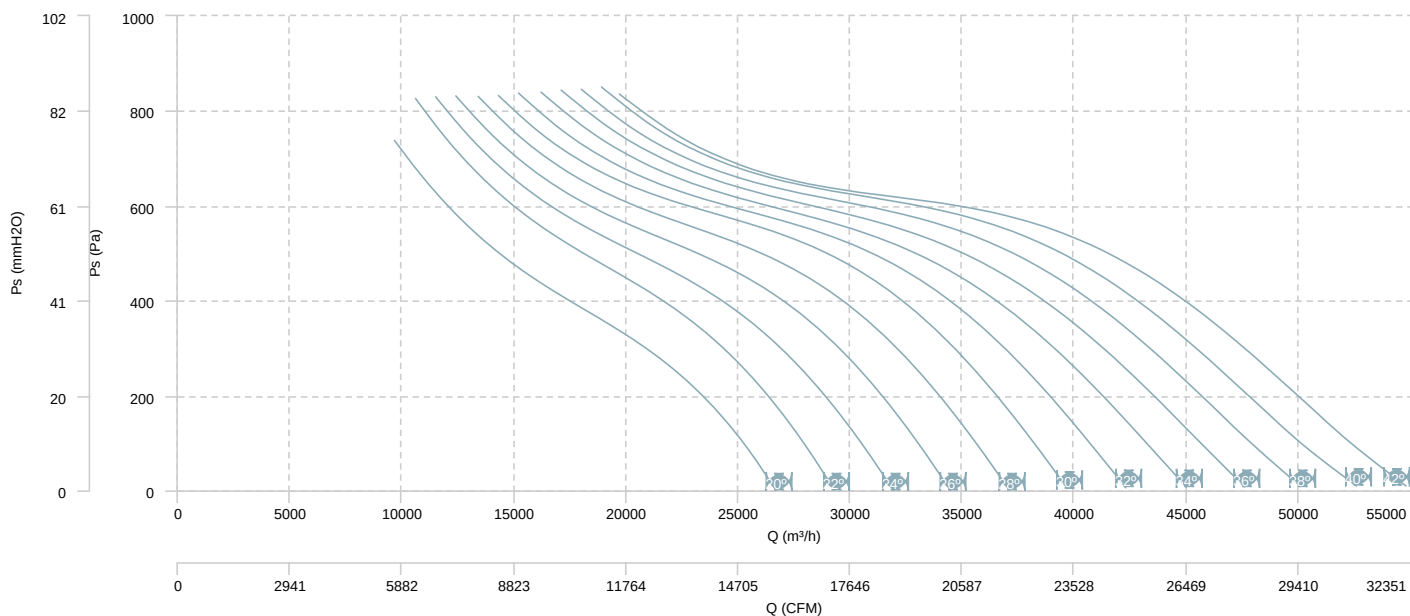


**AIR FLOW - MECHANICAL POWER (8 poles)**

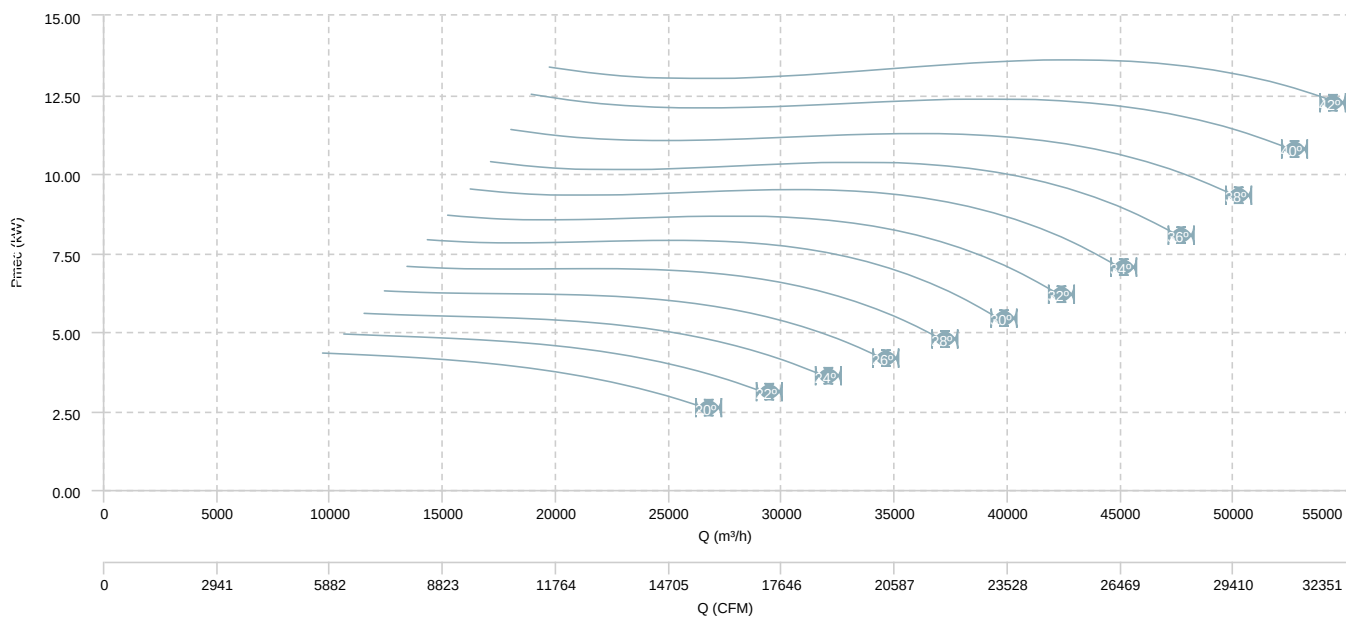


HMF 90 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

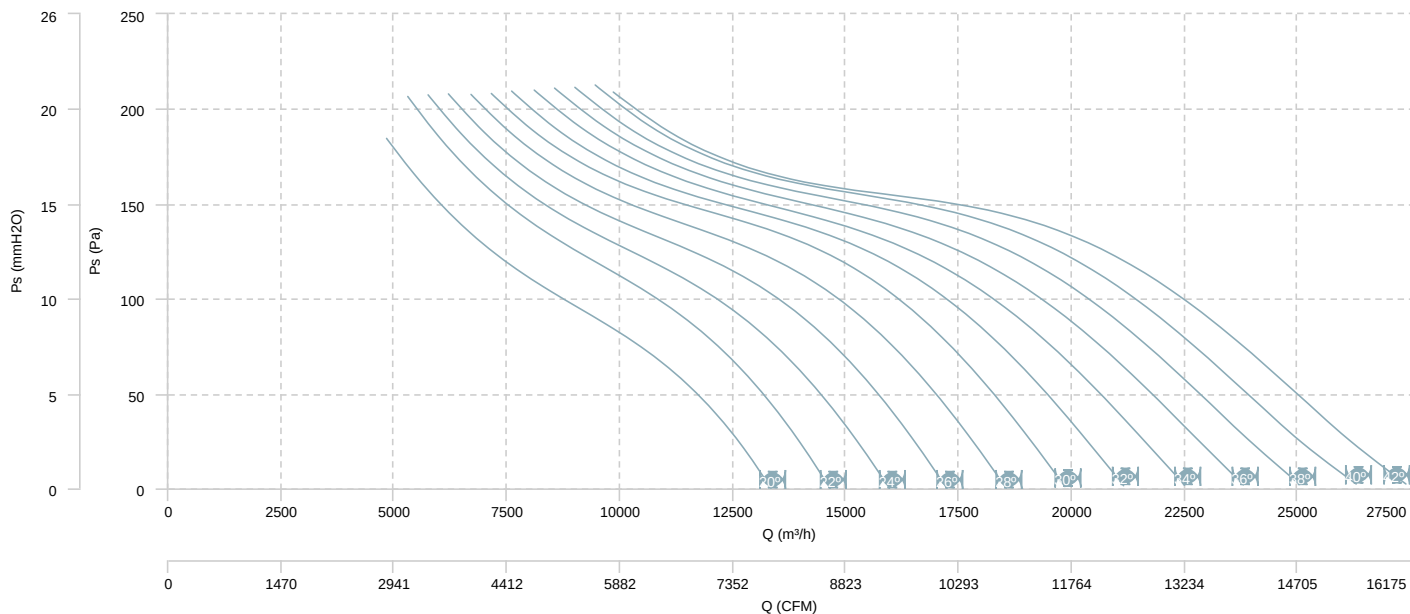


**AIR FLOW - MECHANICAL POWER (4 poles)**

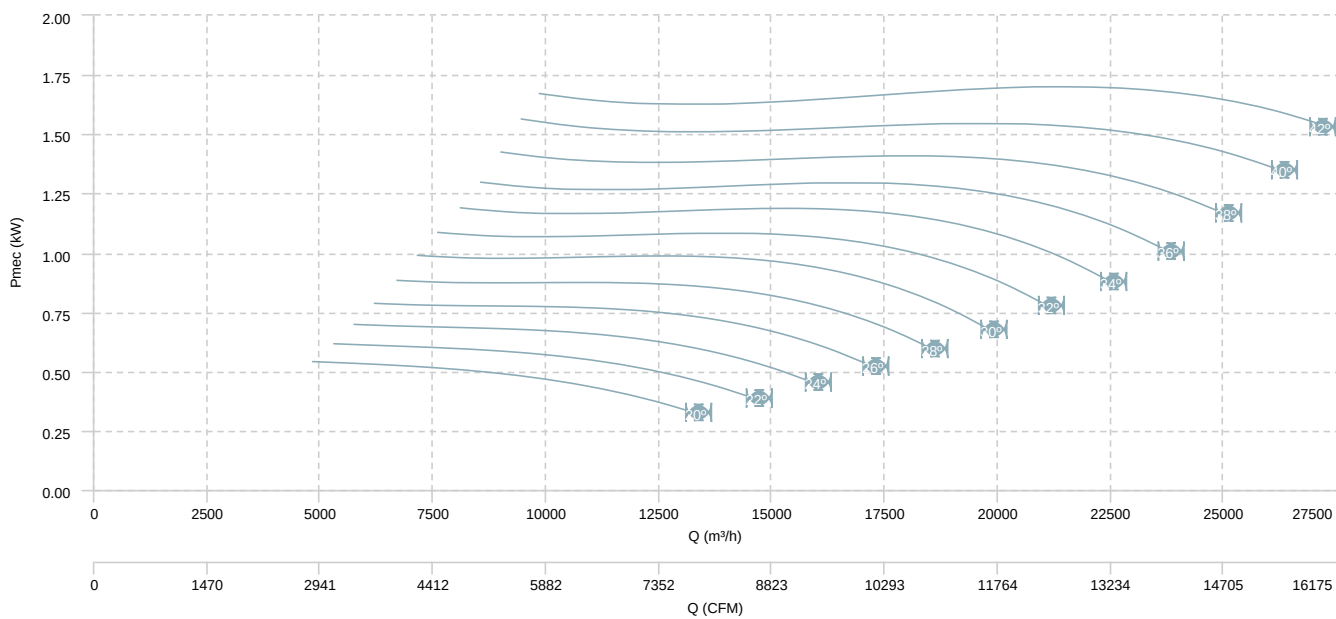


HMF 90 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (8 poles)**



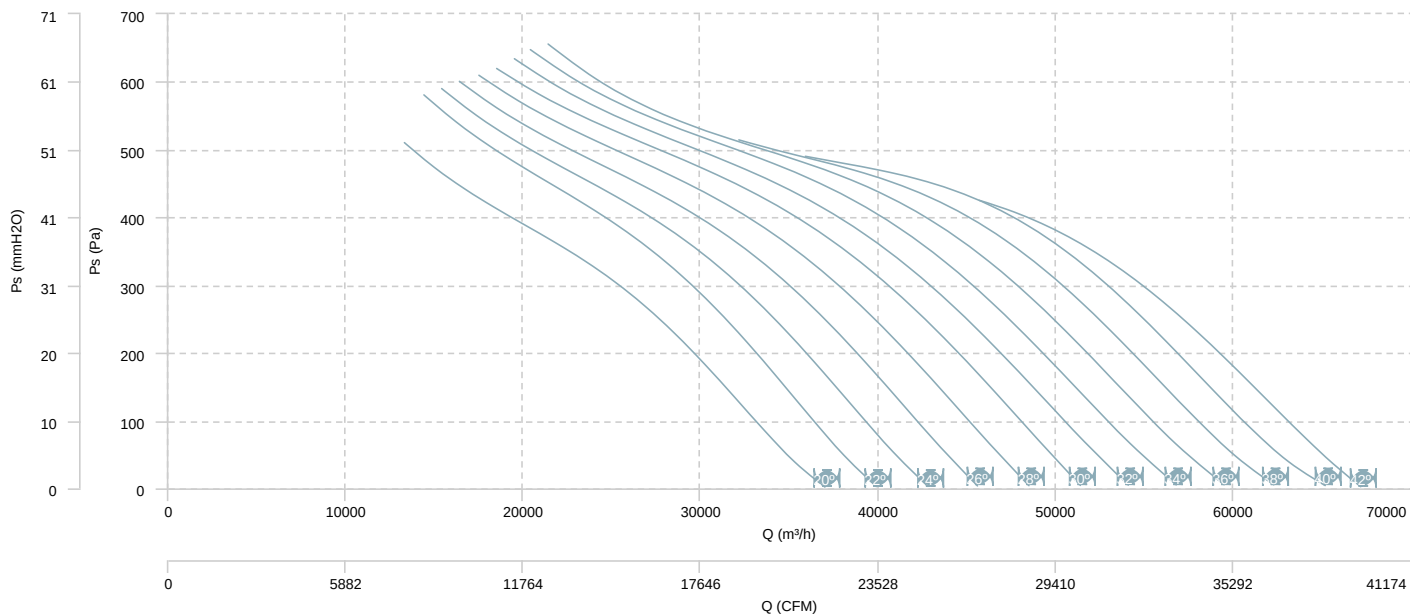
**AIR FLOW - MECHANICAL POWER (8 poles)**



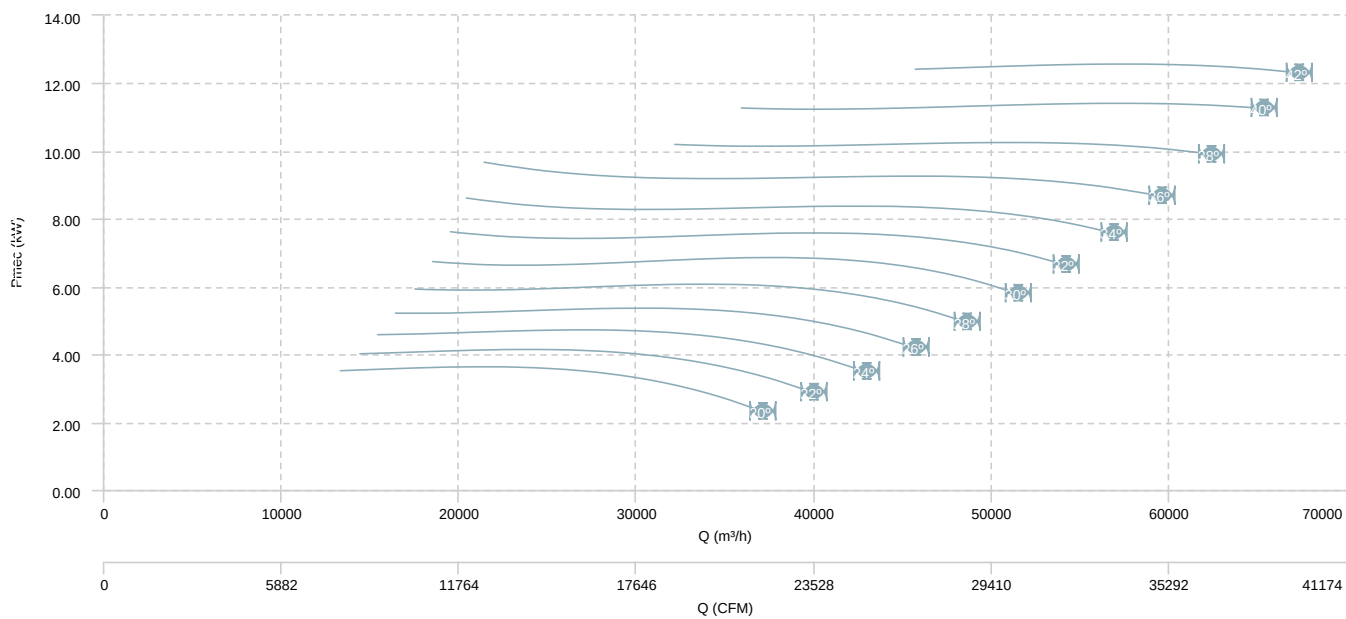


HMF 100 T4 (A3:4) F400

**AIR FLOW - PRESSURE**

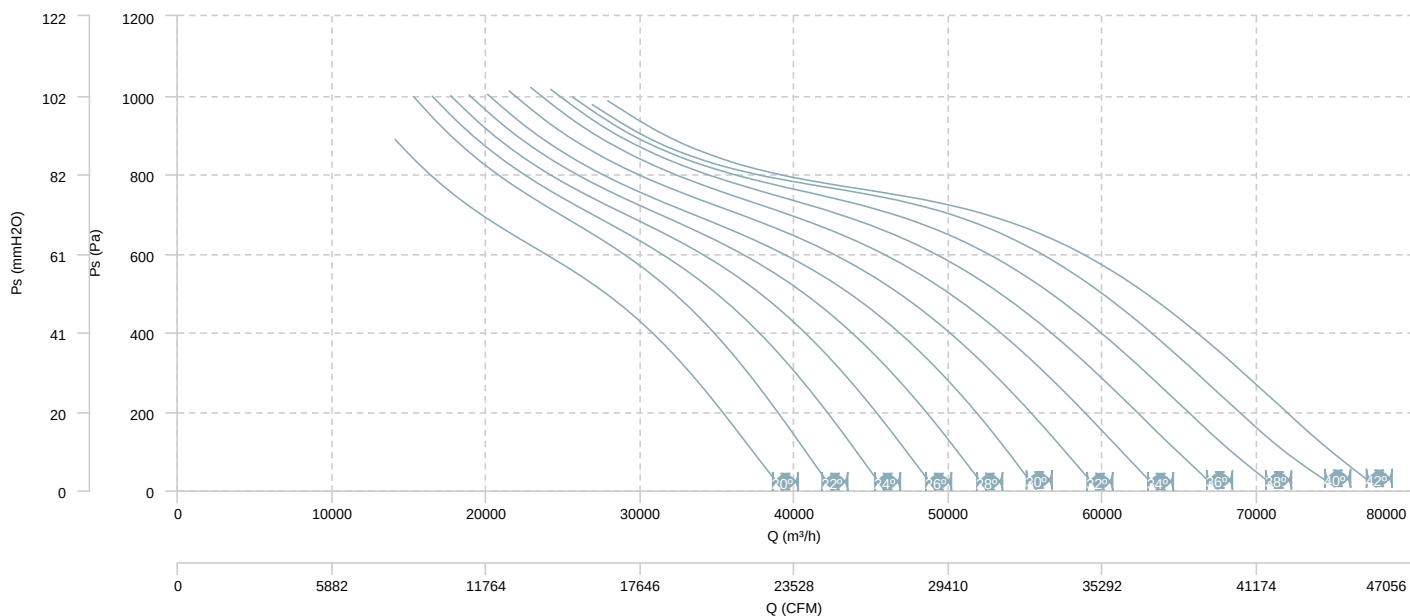


**AIR FLOW - MECHANICAL POWER**

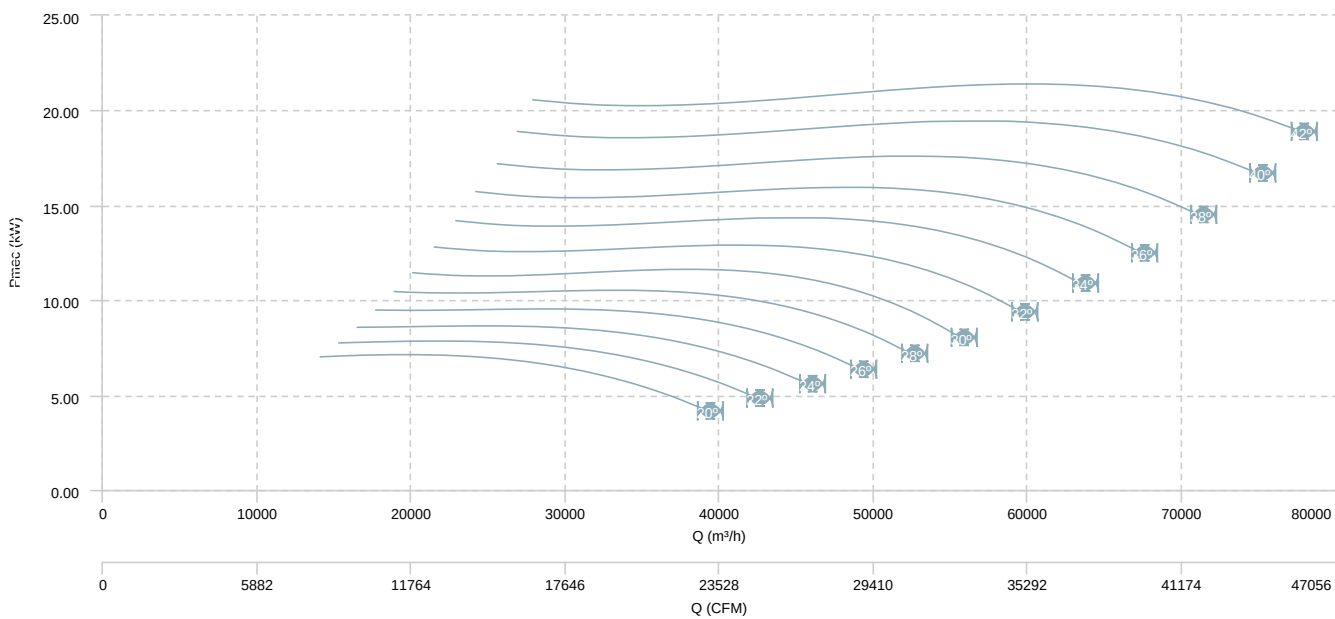


HMF 100 T4 (A3:8) F400

**AIR FLOW - PRESSURE**

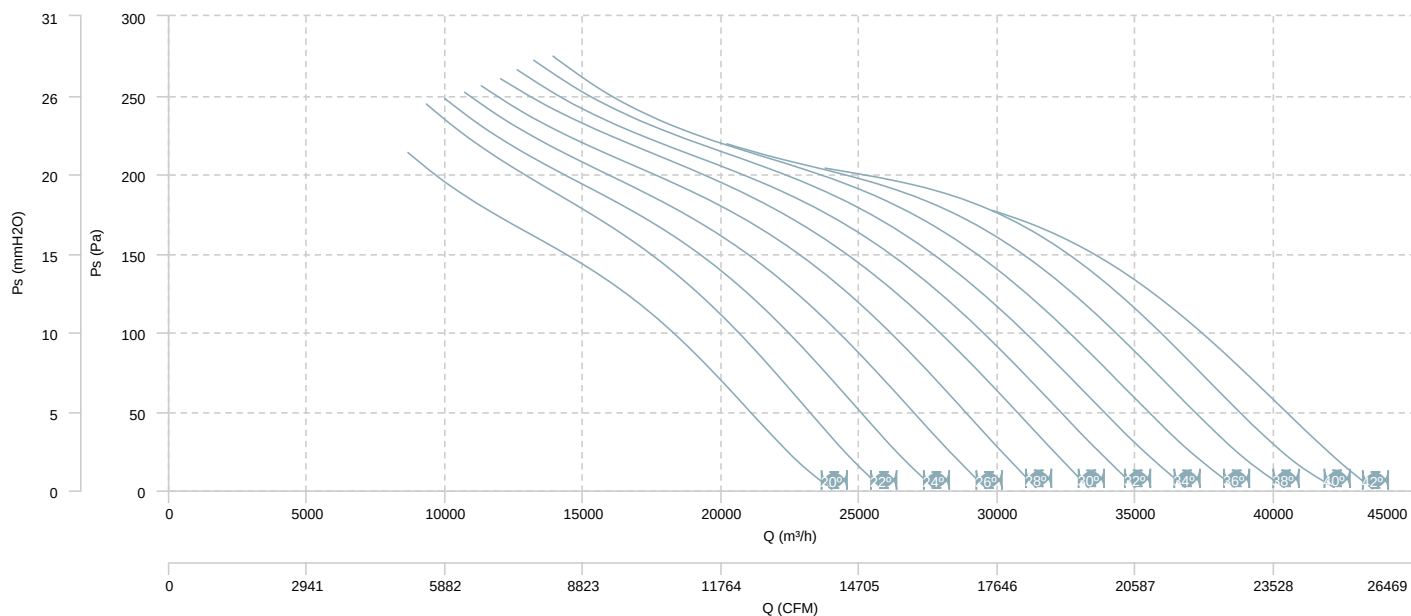


**AIR FLOW - MECHANICAL POWER**

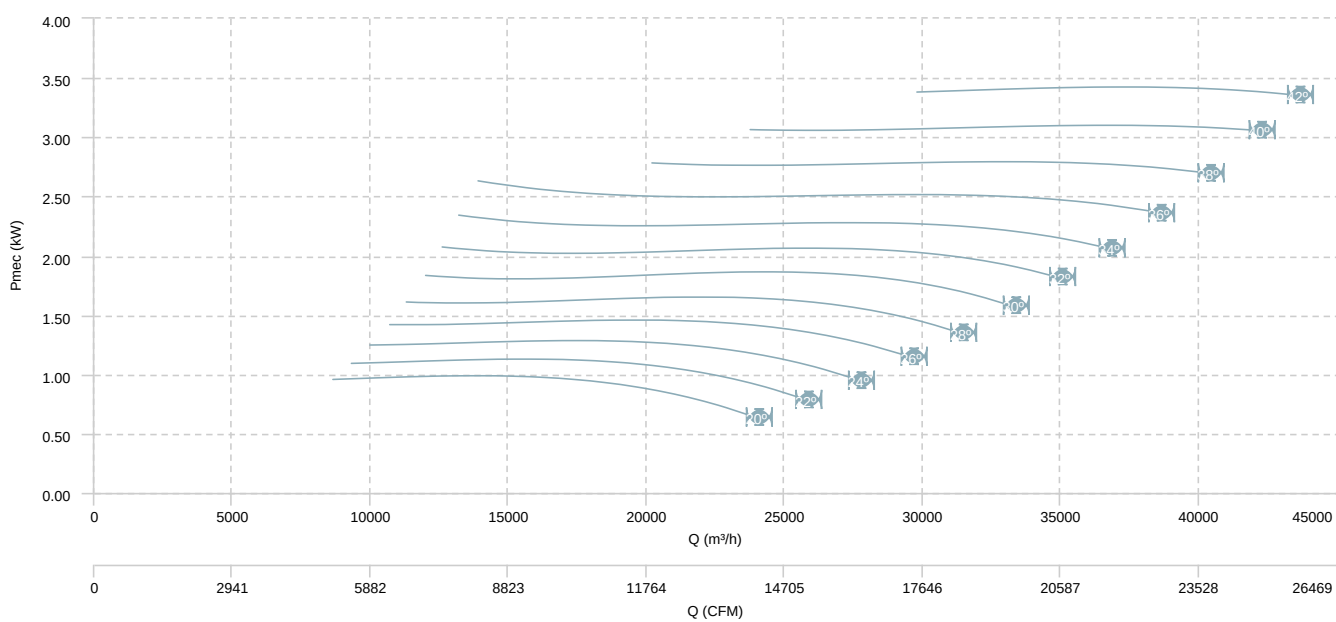


HMF 100 T6 (A3:4) F400

**AIR FLOW - PRESSURE**

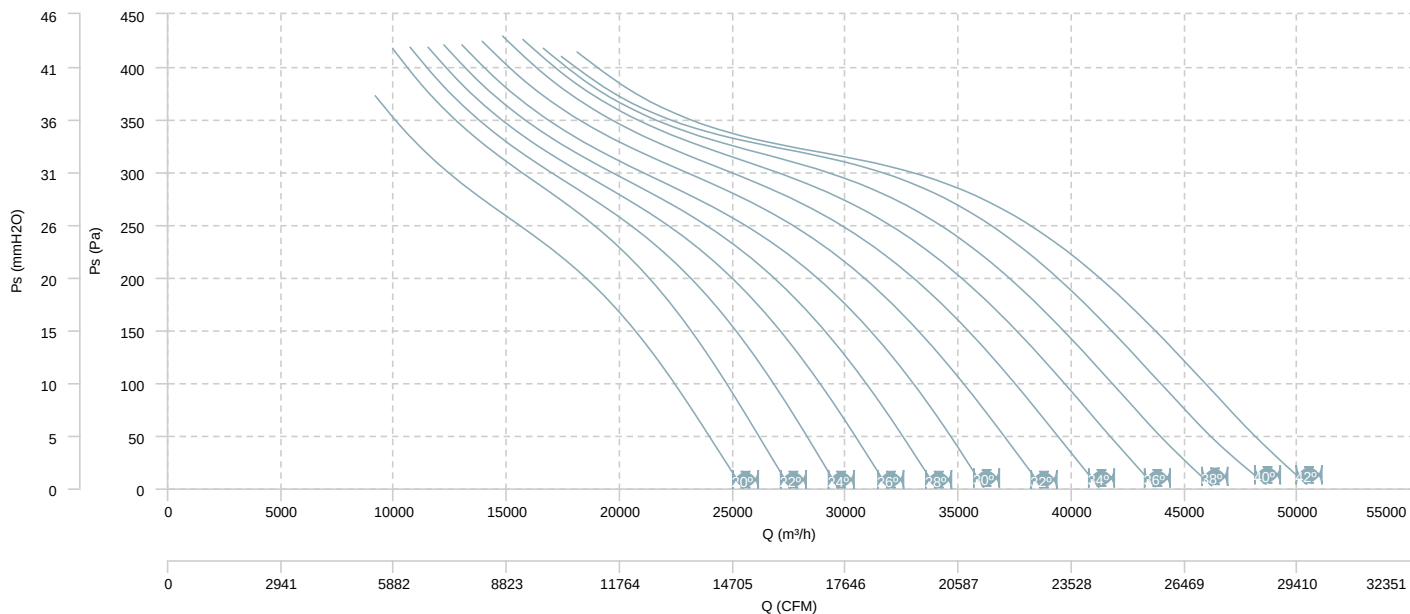


**AIR FLOW - MECHANICAL POWER**

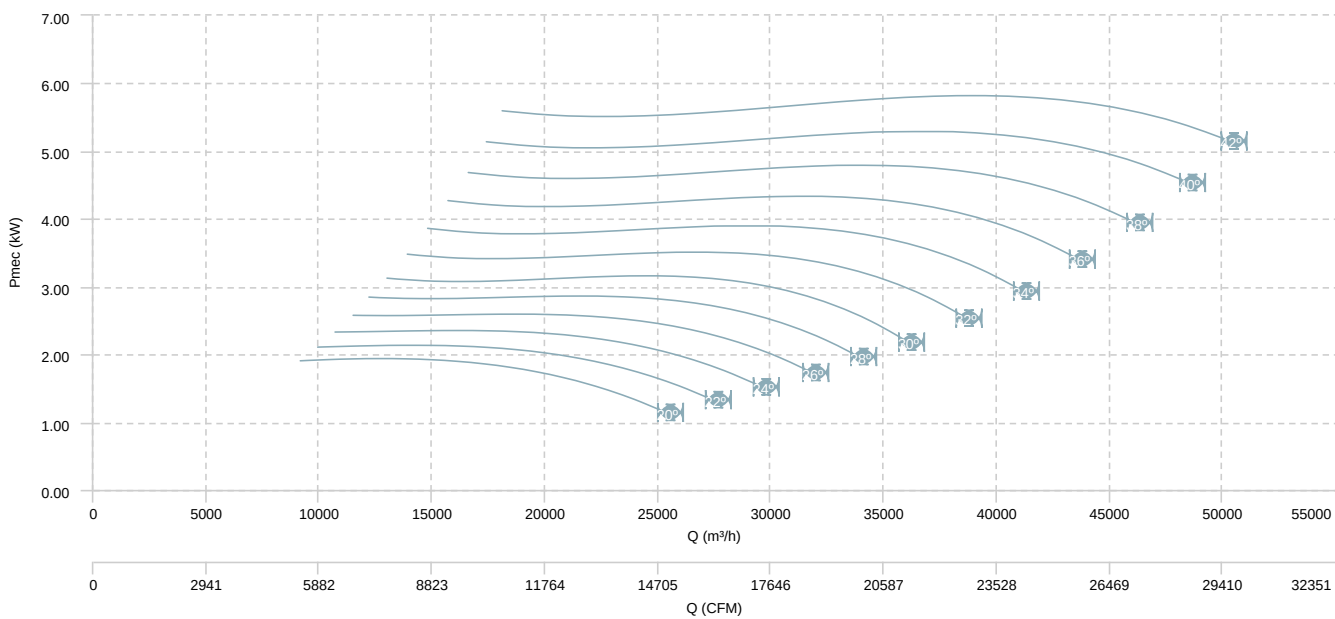


**HMF 100 T6 (A3:8) F400**

**AIR FLOW - PRESSURE**

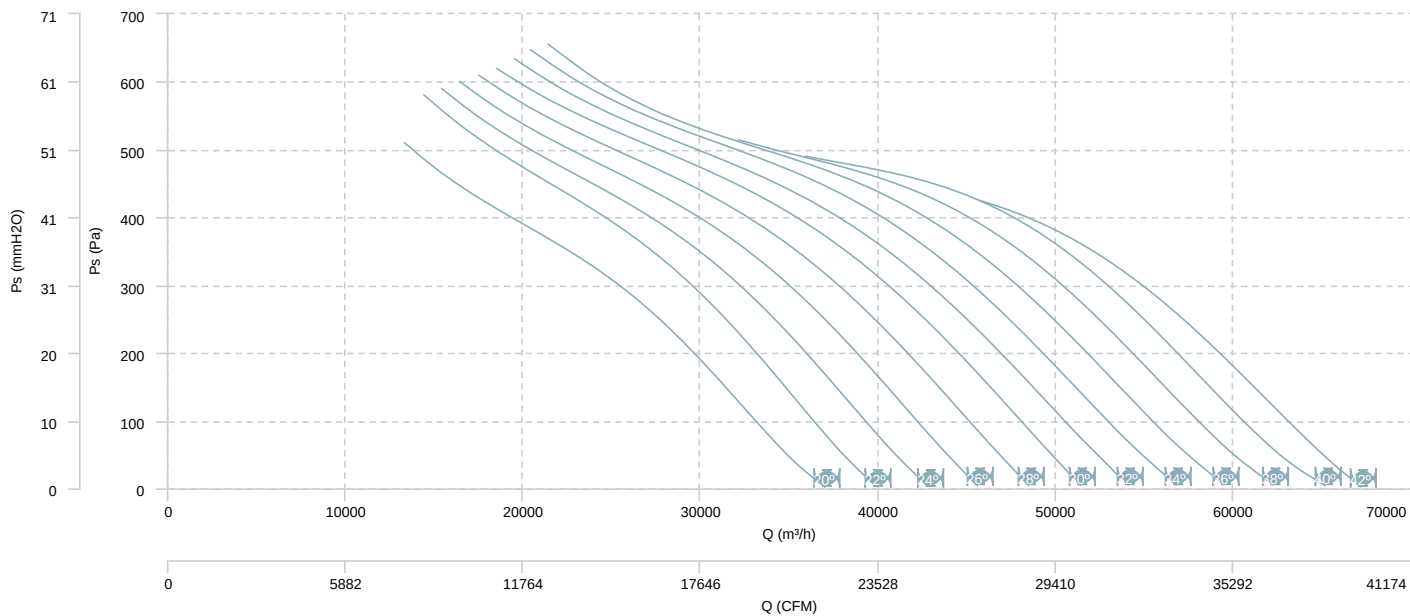


**AIR FLOW - MECHANICAL POWER**

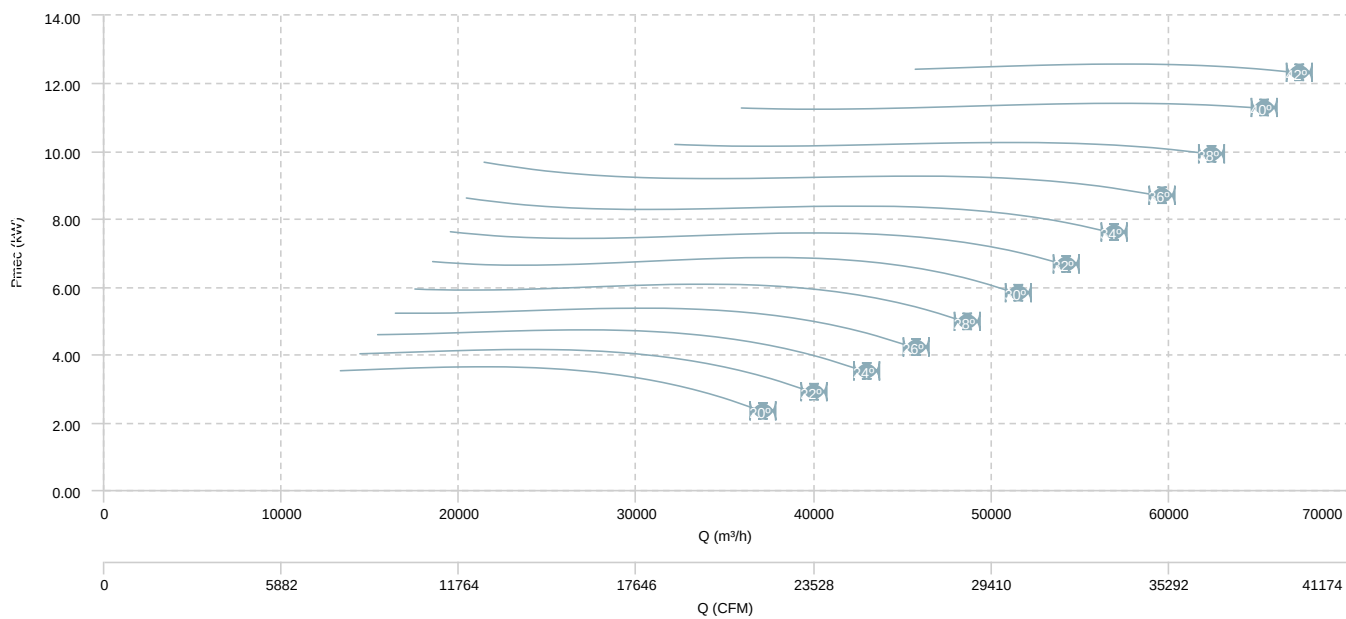


HMF 100 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

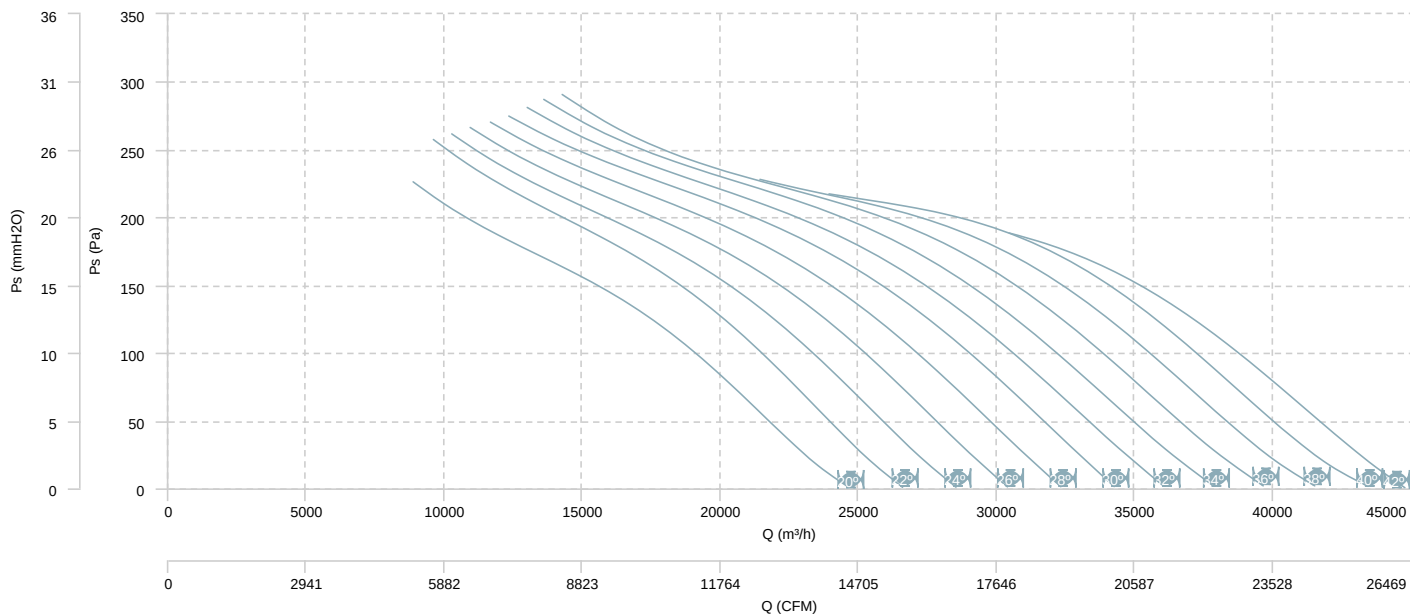


**AIR FLOW - MECHANICAL POWER (4 poles)**



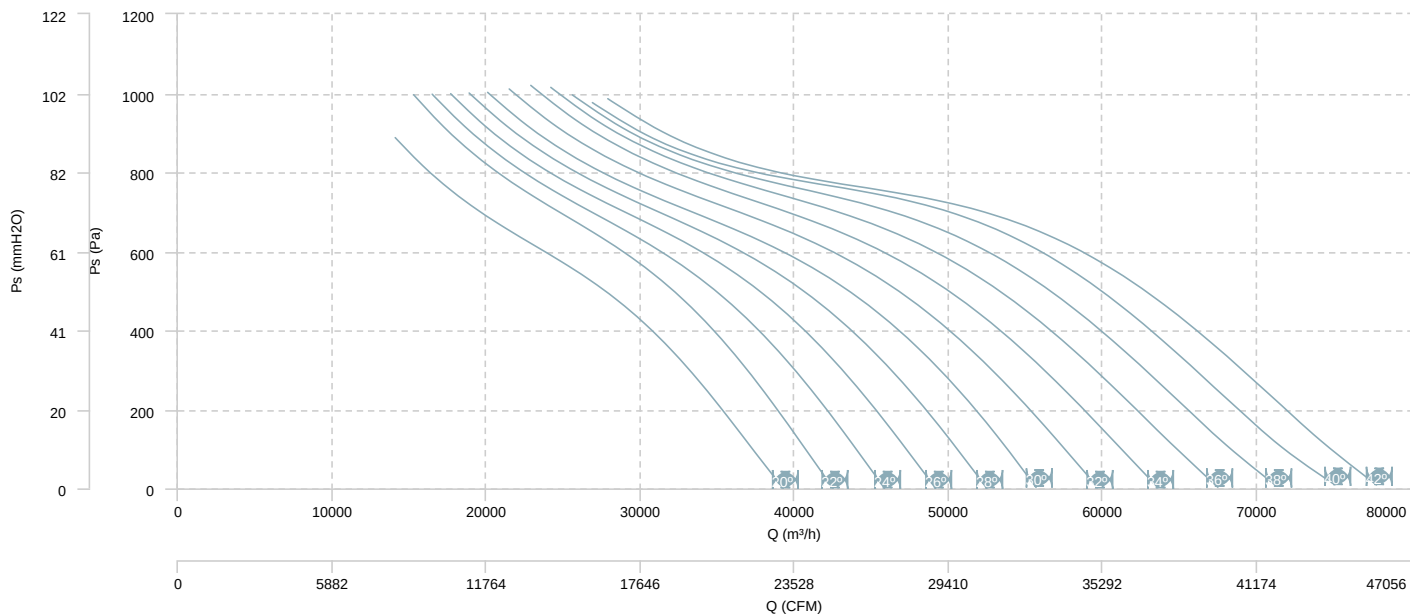
HMF 100 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (6 poles)**

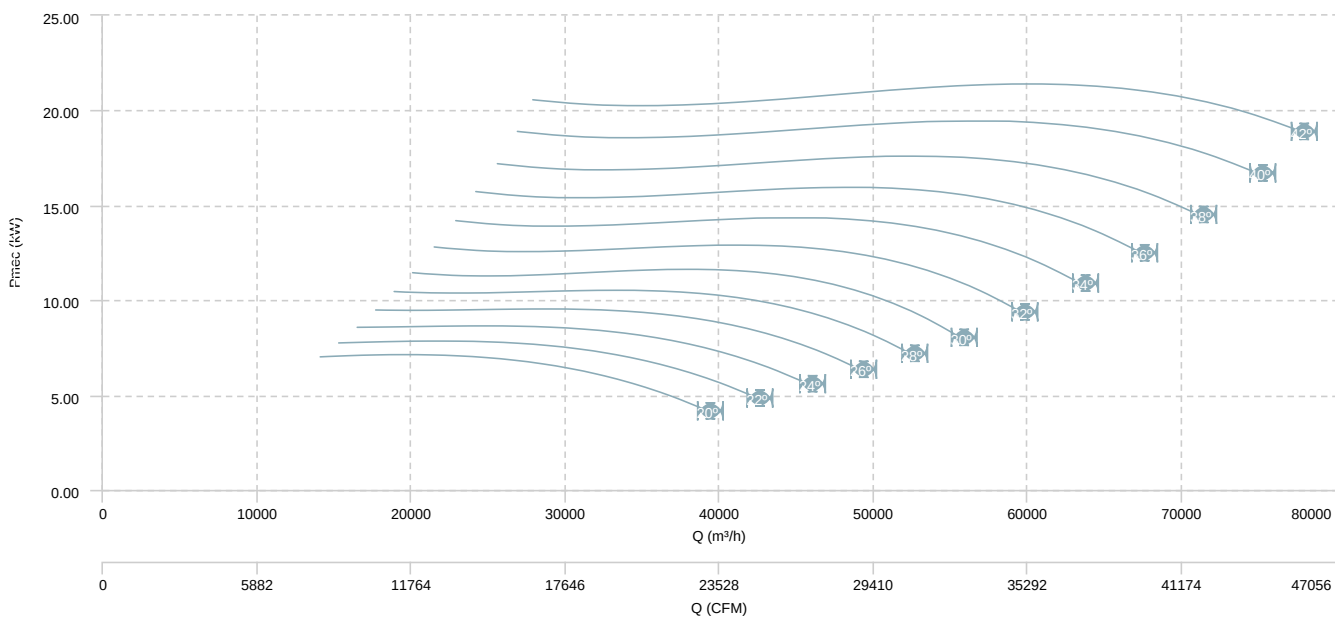


HMF 100 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

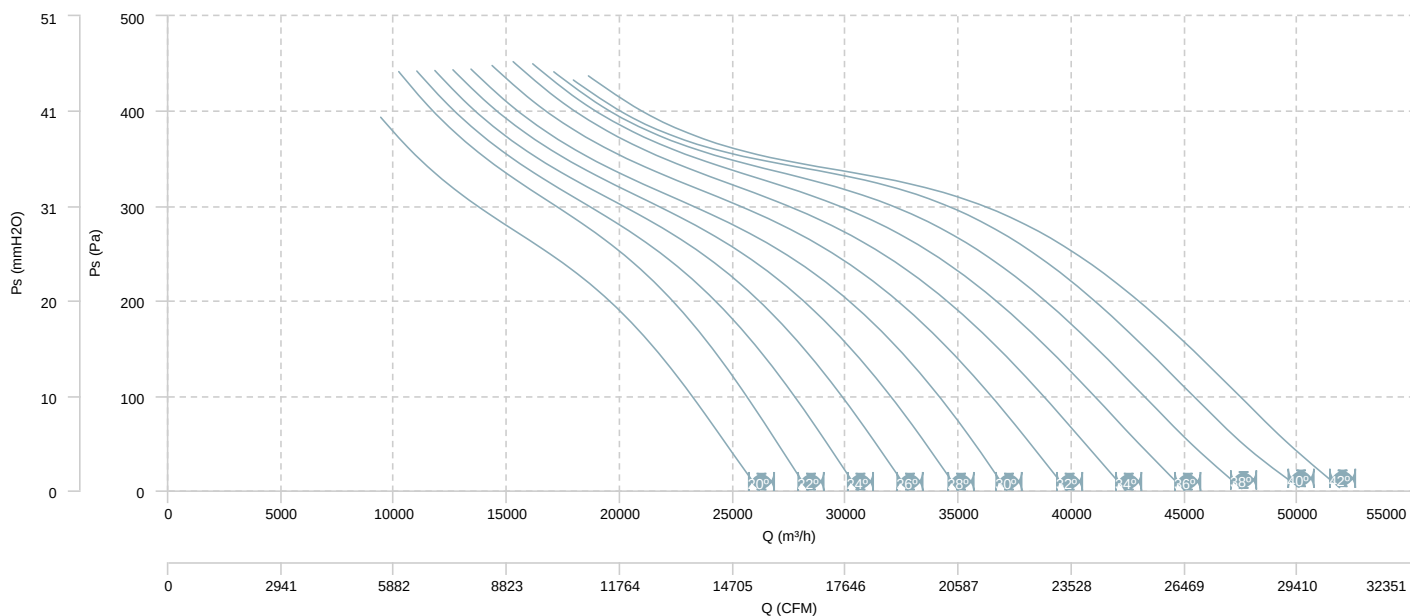


**AIR FLOW - MECHANICAL POWER (4 poles)**

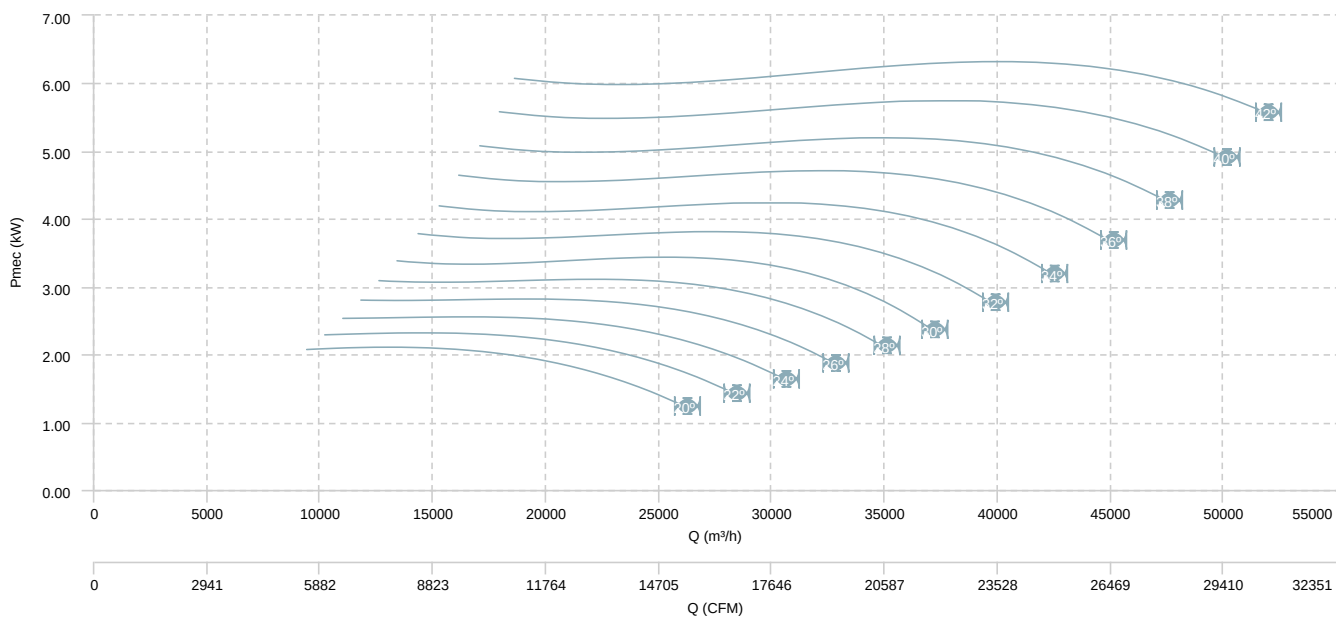


HMF 100 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (6 poles)**



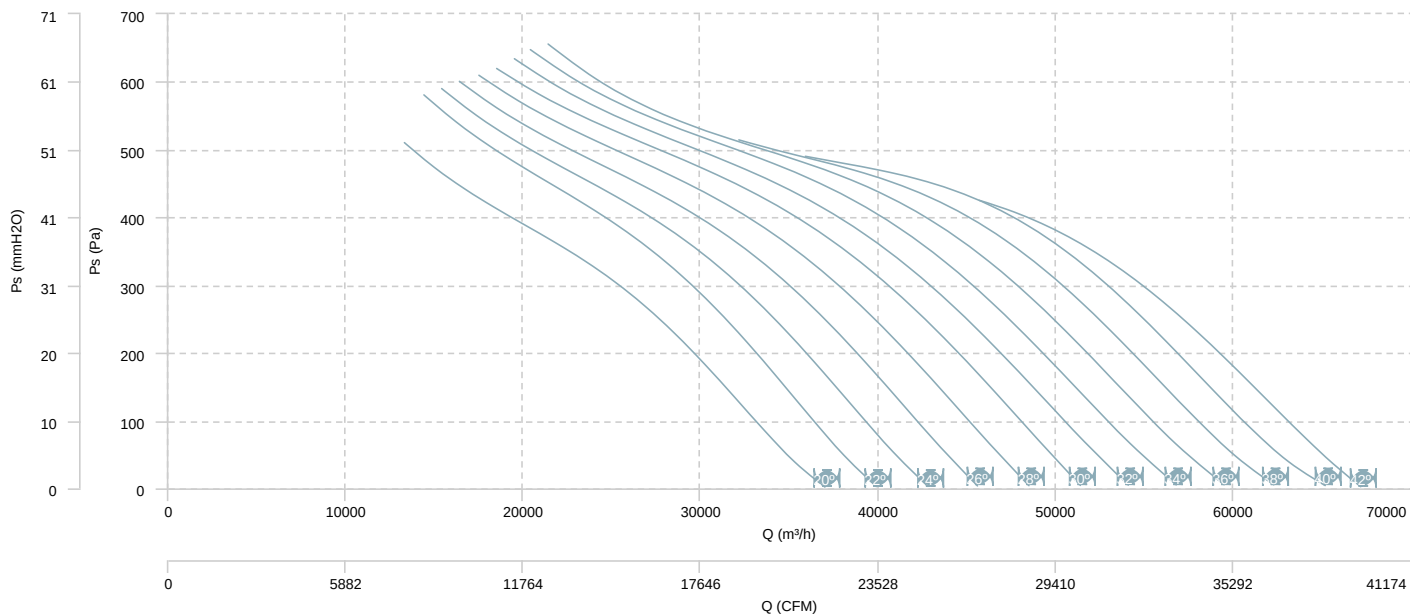
**AIR FLOW - MECHANICAL POWER (6 poles)**



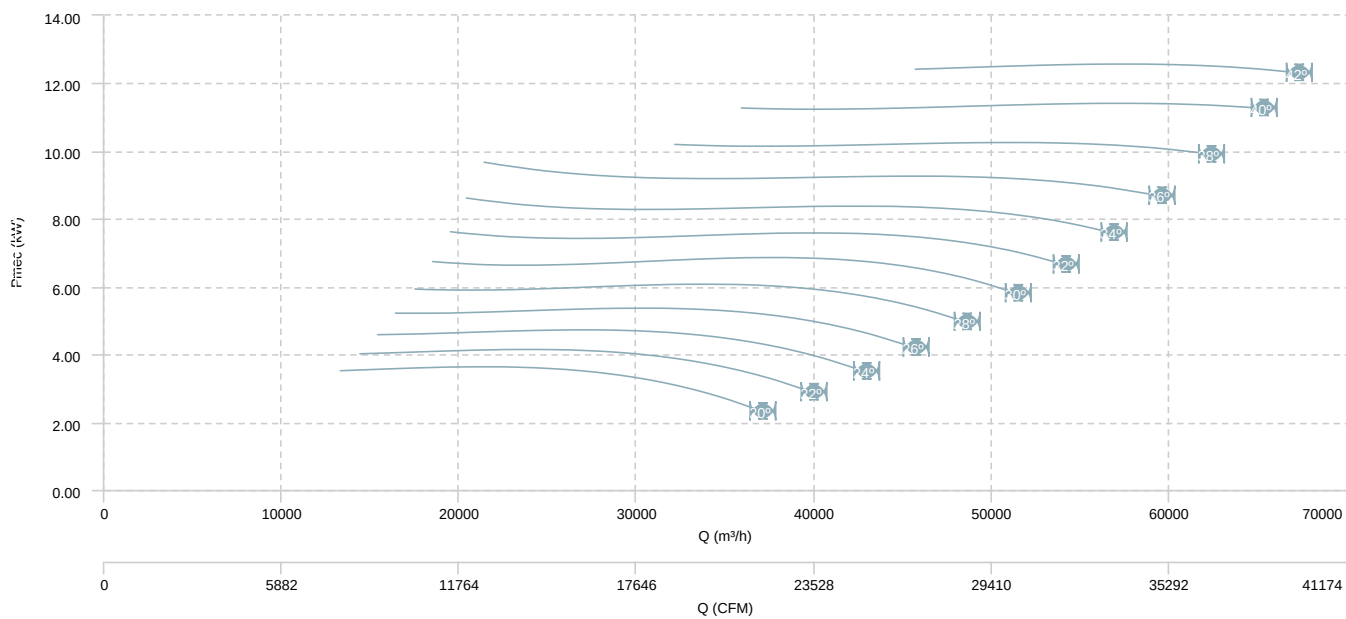


HMF 100 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

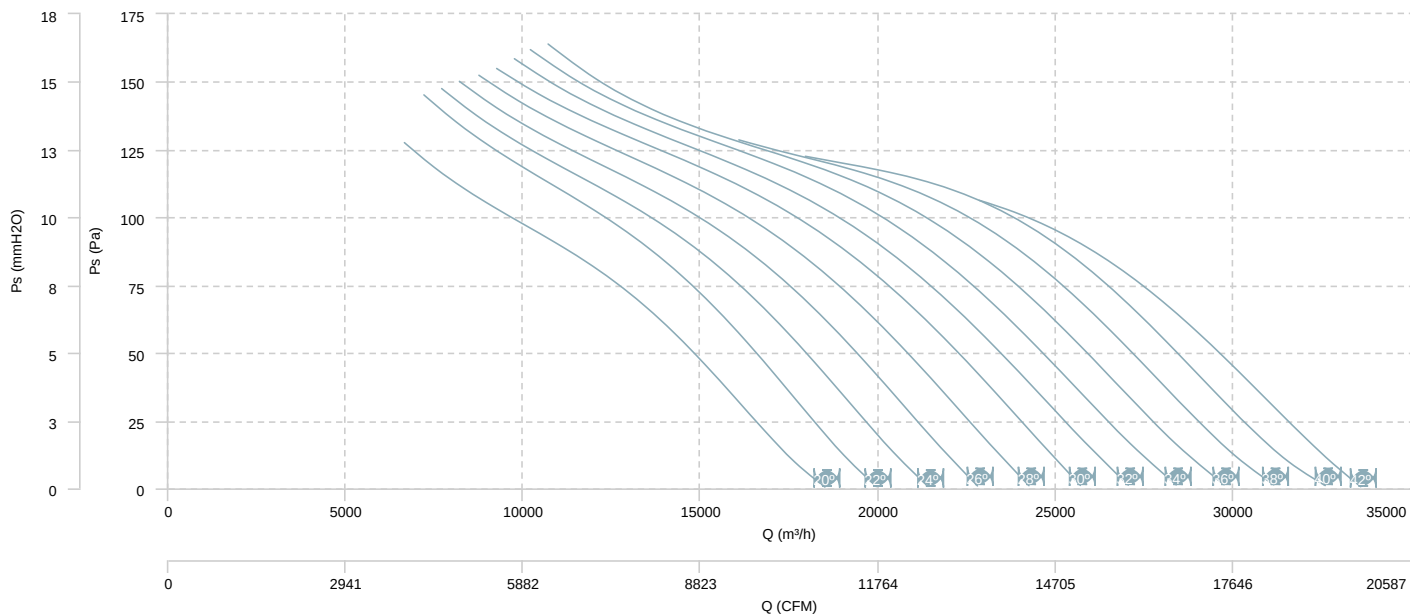


**AIR FLOW - MECHANICAL POWER (4 poles)**

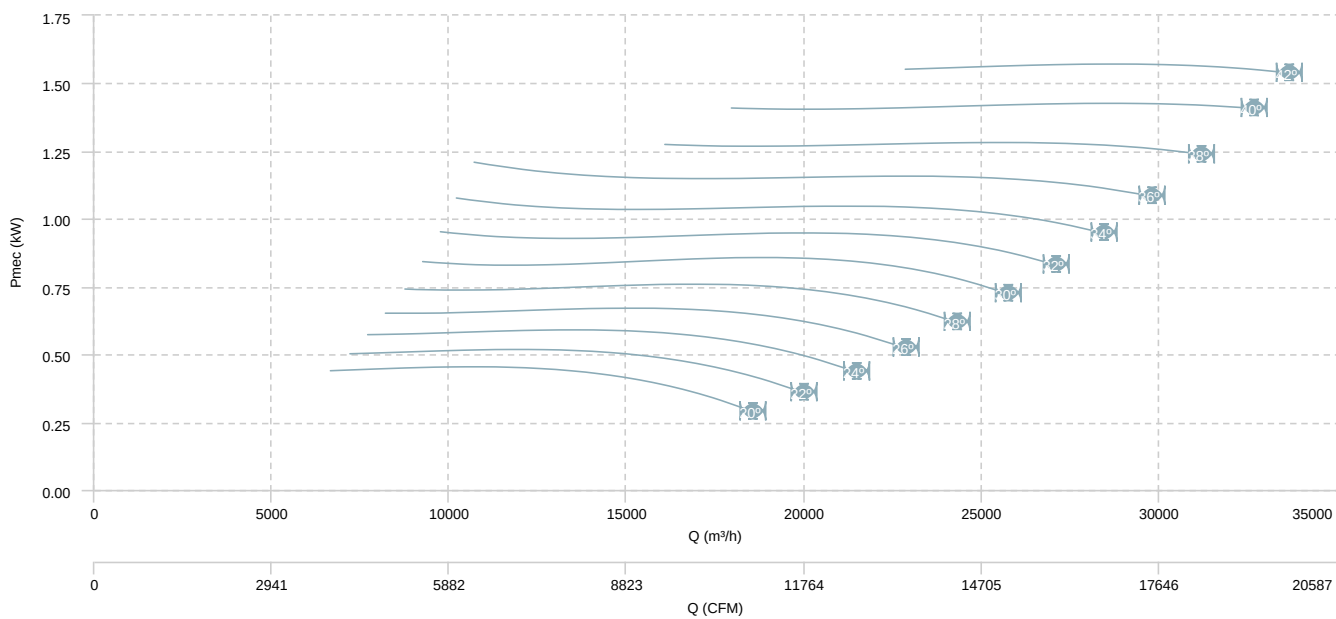


HMF 100 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (8 poles)**

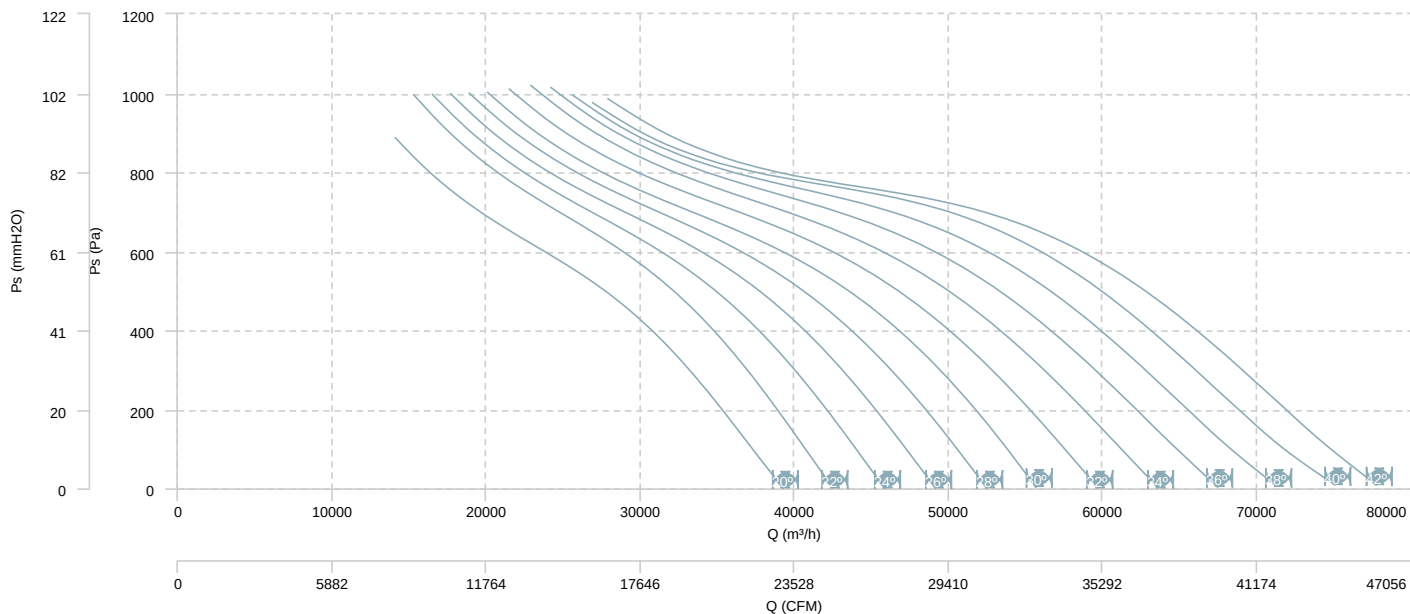


**AIR FLOW - MECHANICAL POWER (8 poles)**

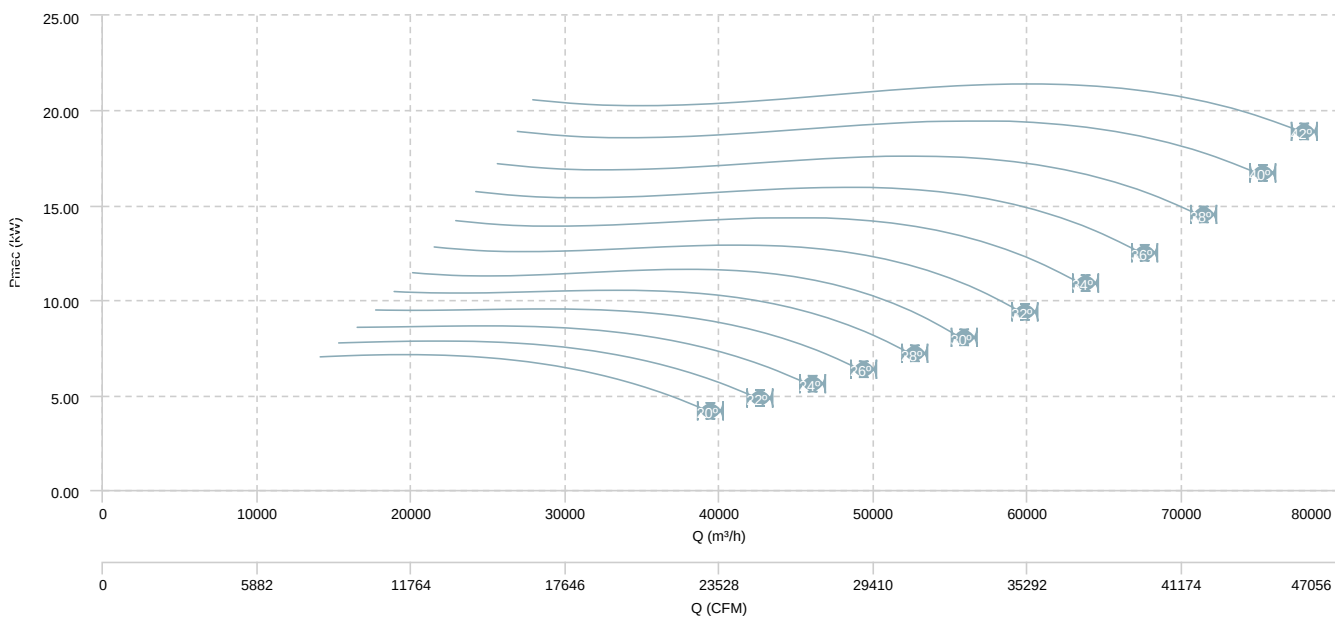


HMF 100 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

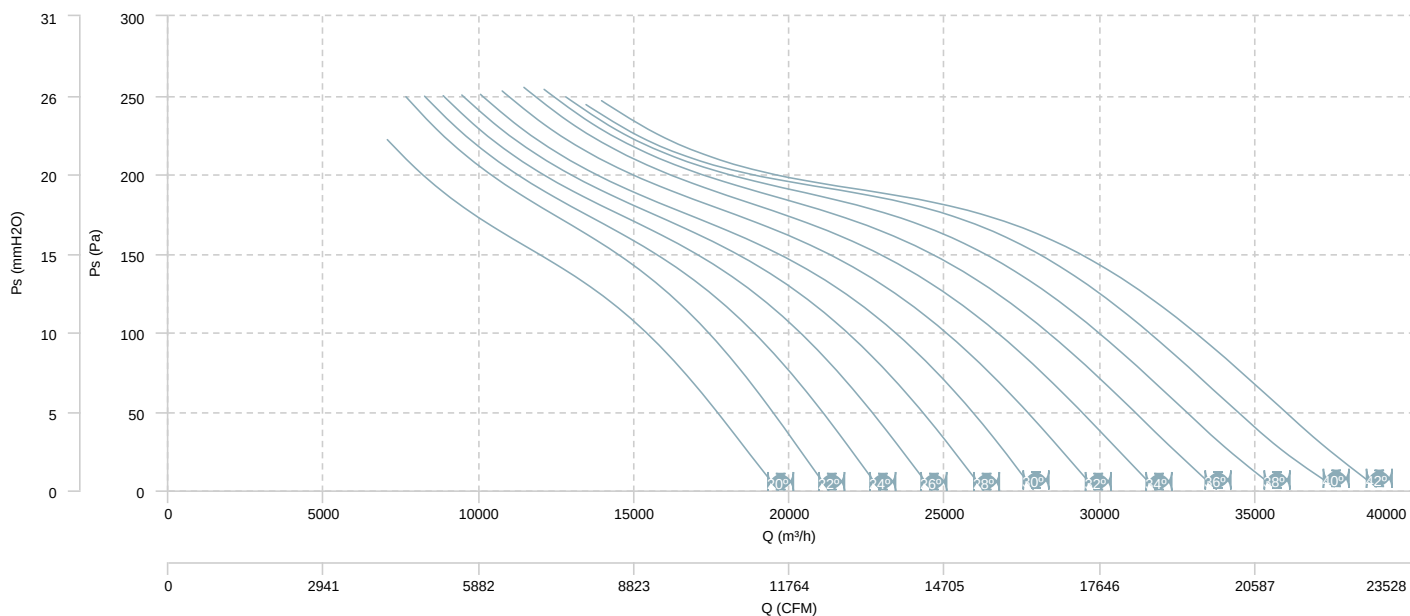


**AIR FLOW - MECHANICAL POWER (4 poles)**

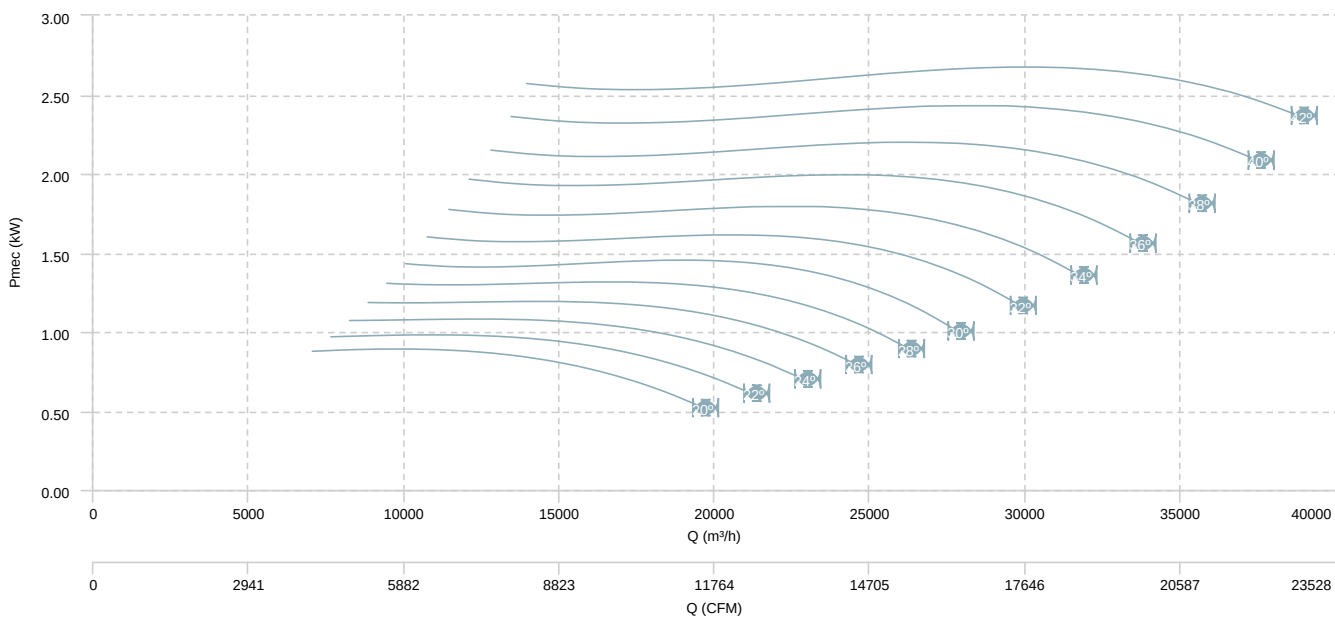


HMF 100 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (8 poles)**

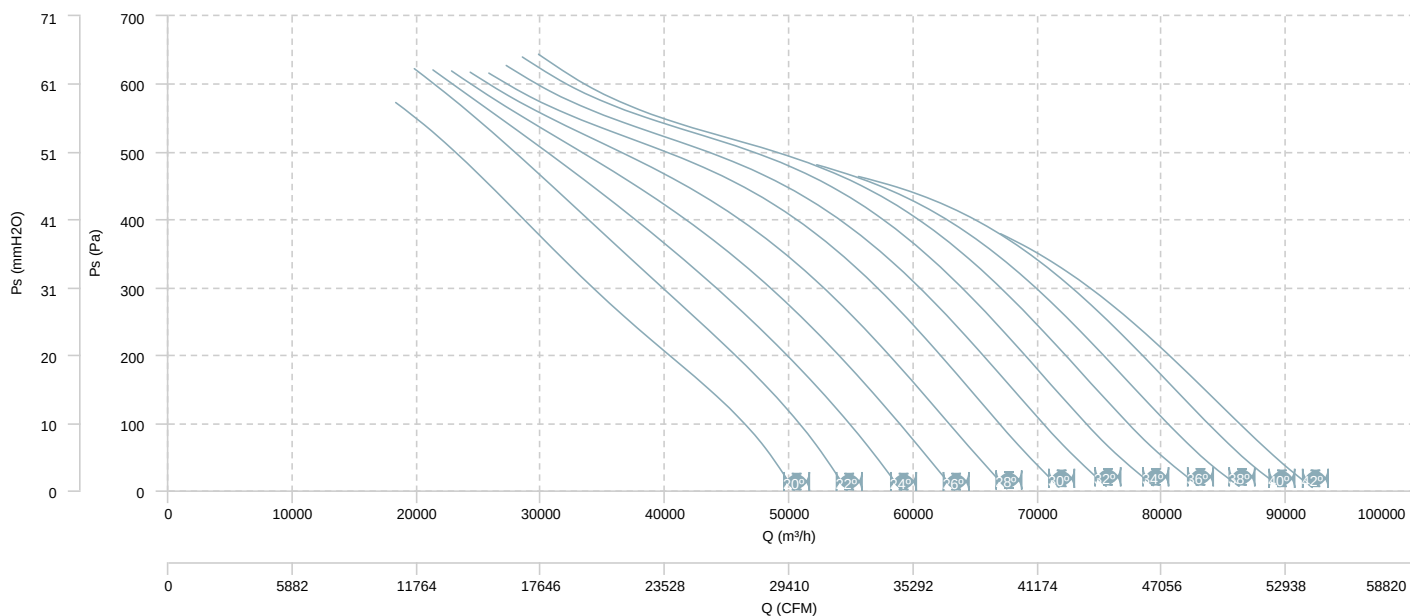


**AIR FLOW - MECHANICAL POWER (8 poles)**

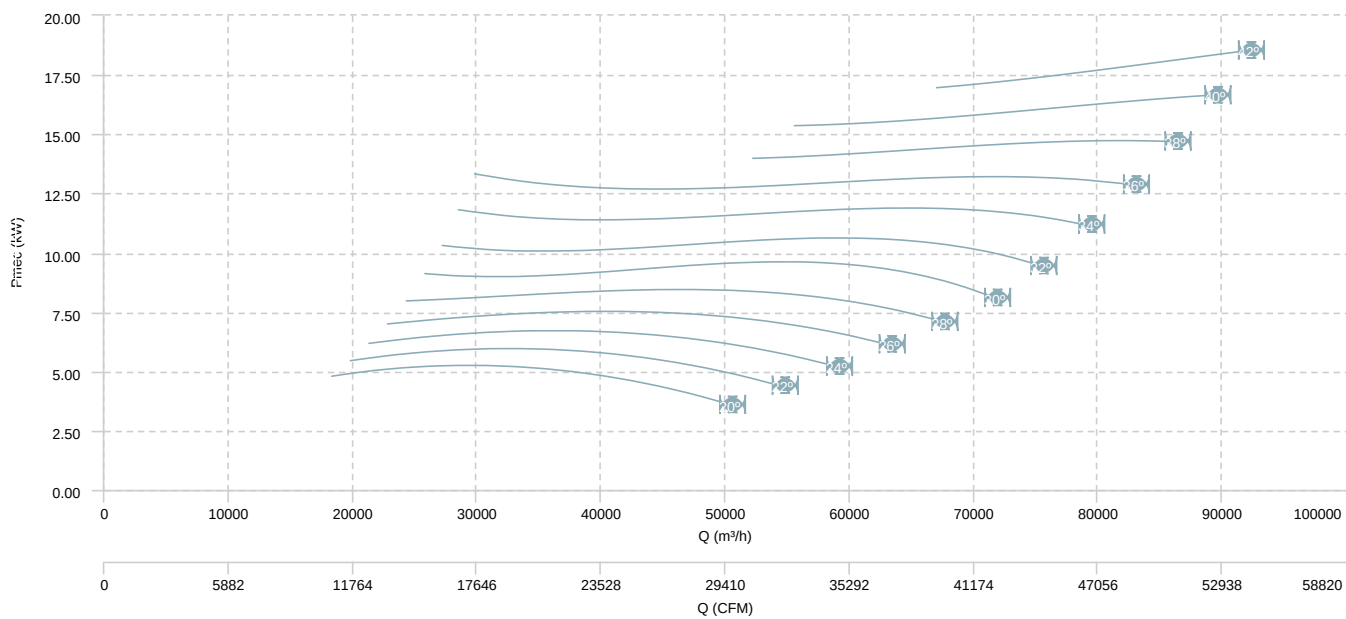


HMF 112 T4 (A3:4) F400

## AIR FLOW - PRESSURE

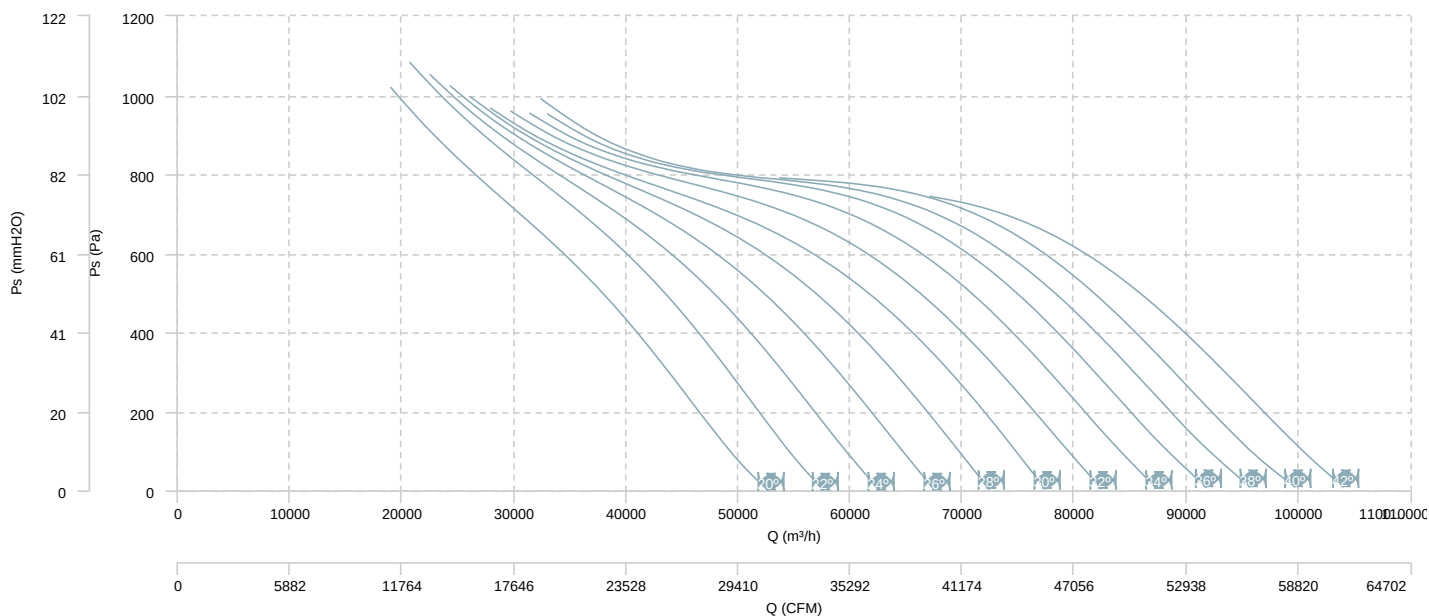


## AIR FLOW - MECHANICAL POWER

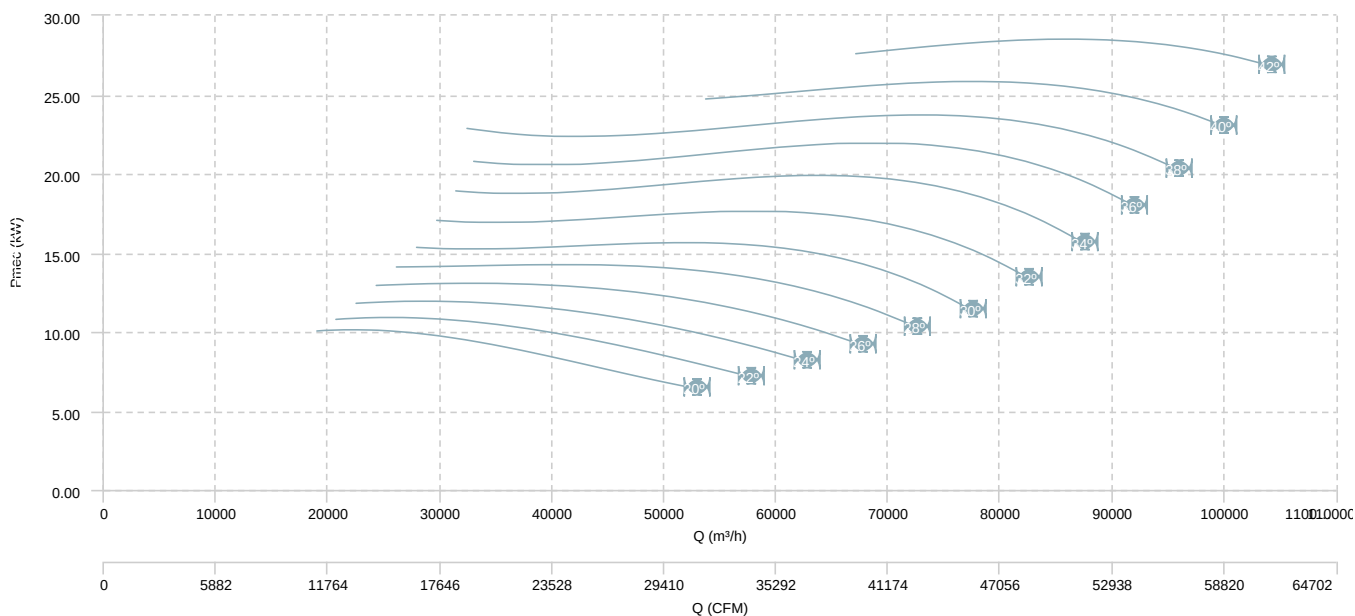


**HMF 112 T4 (A3:8) F400**

**AIR FLOW - PRESSURE**

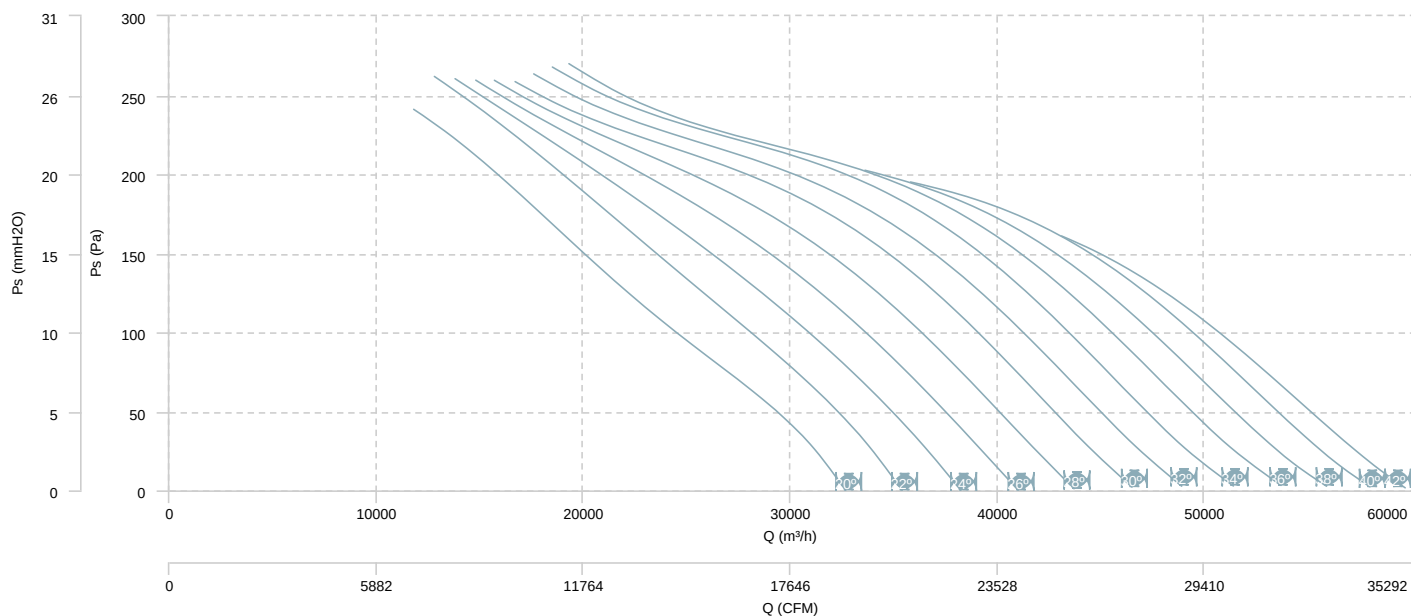


**AIR FLOW - MECHANICAL POWER**

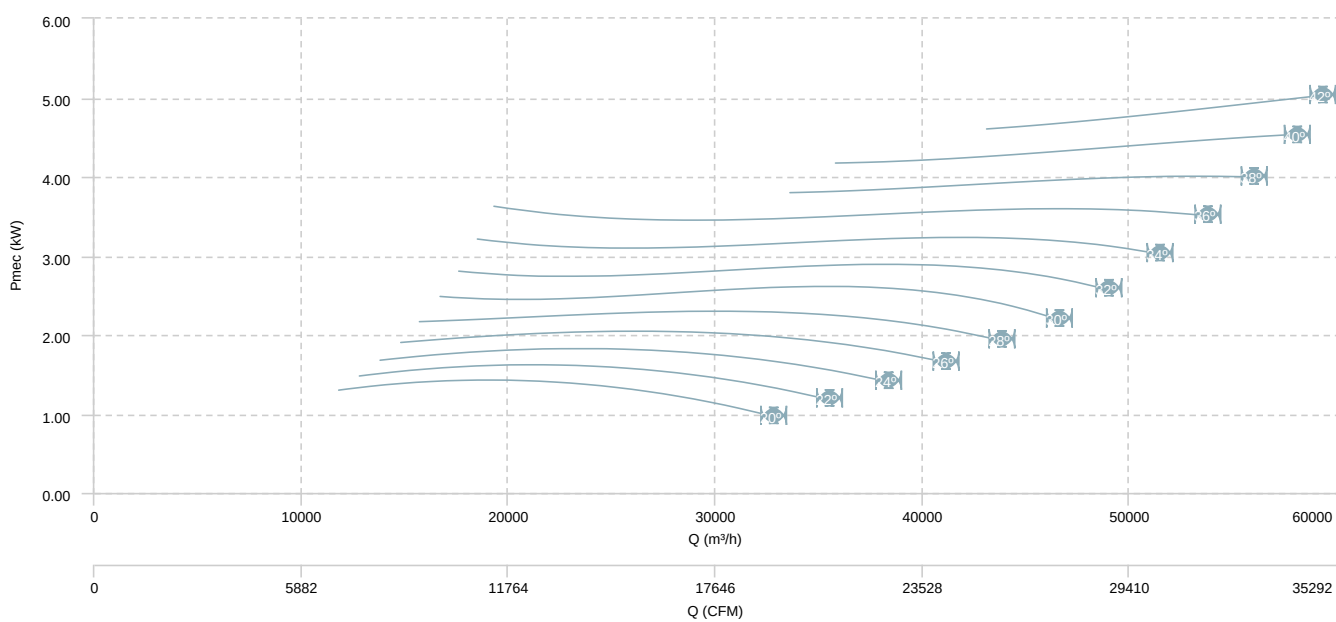


HMF 112 T6 (A3:4) F400

## AIR FLOW - PRESSURE

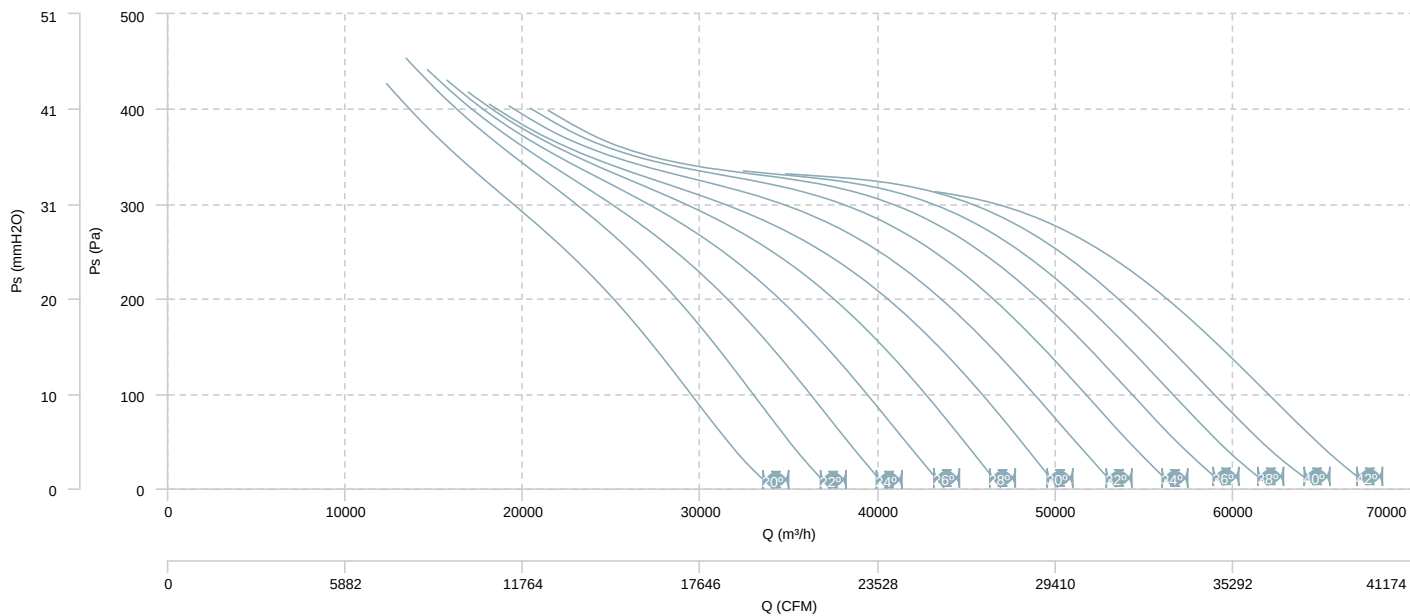


## AIR FLOW - MECHANICAL POWER

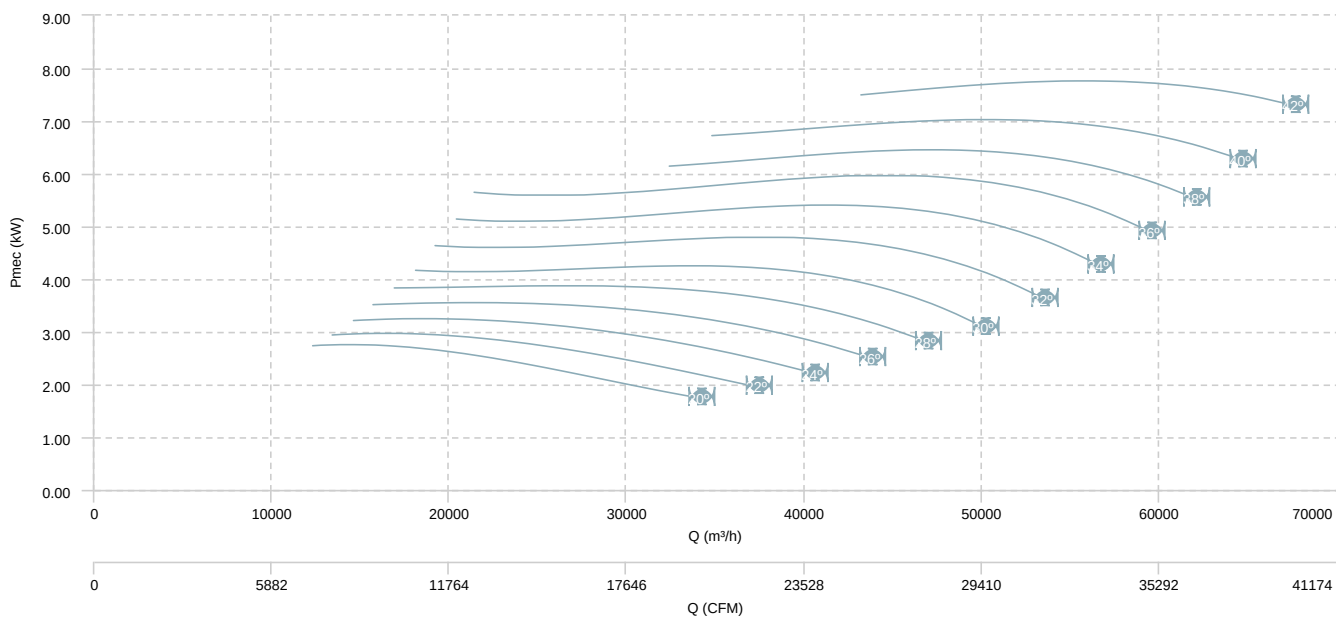


HMF 112 T6 (A3:8) F400

**AIR FLOW - PRESSURE**



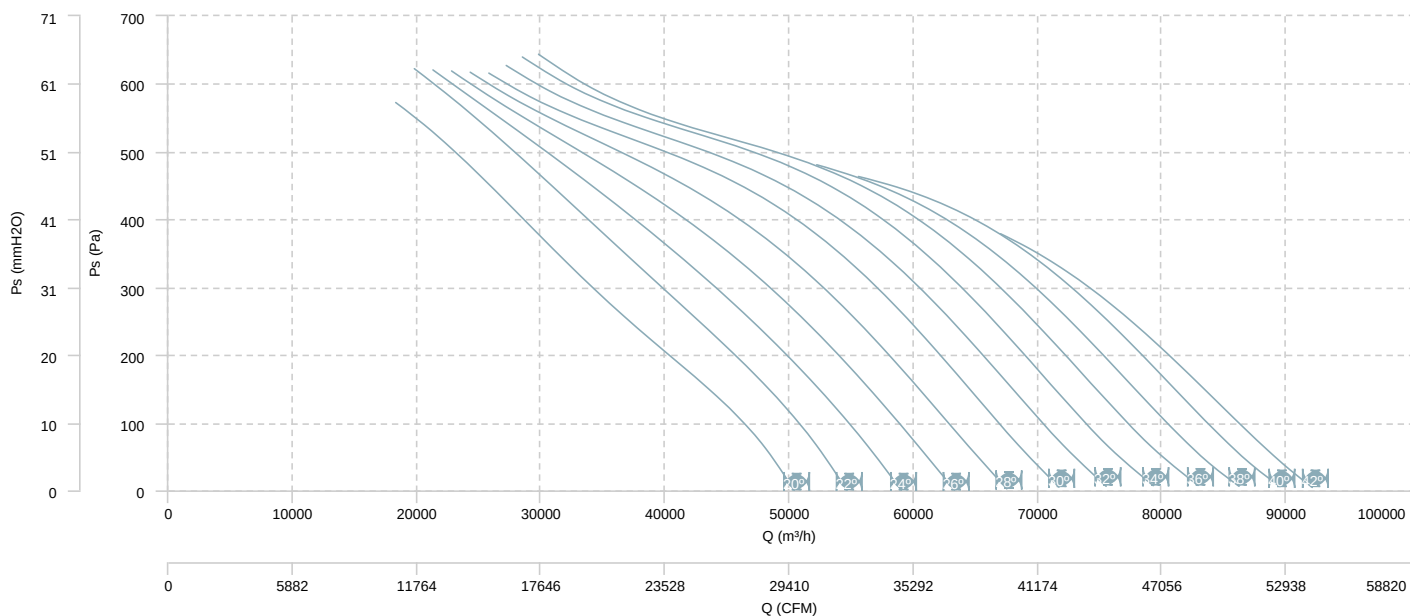
**AIR FLOW - MECHANICAL POWER**



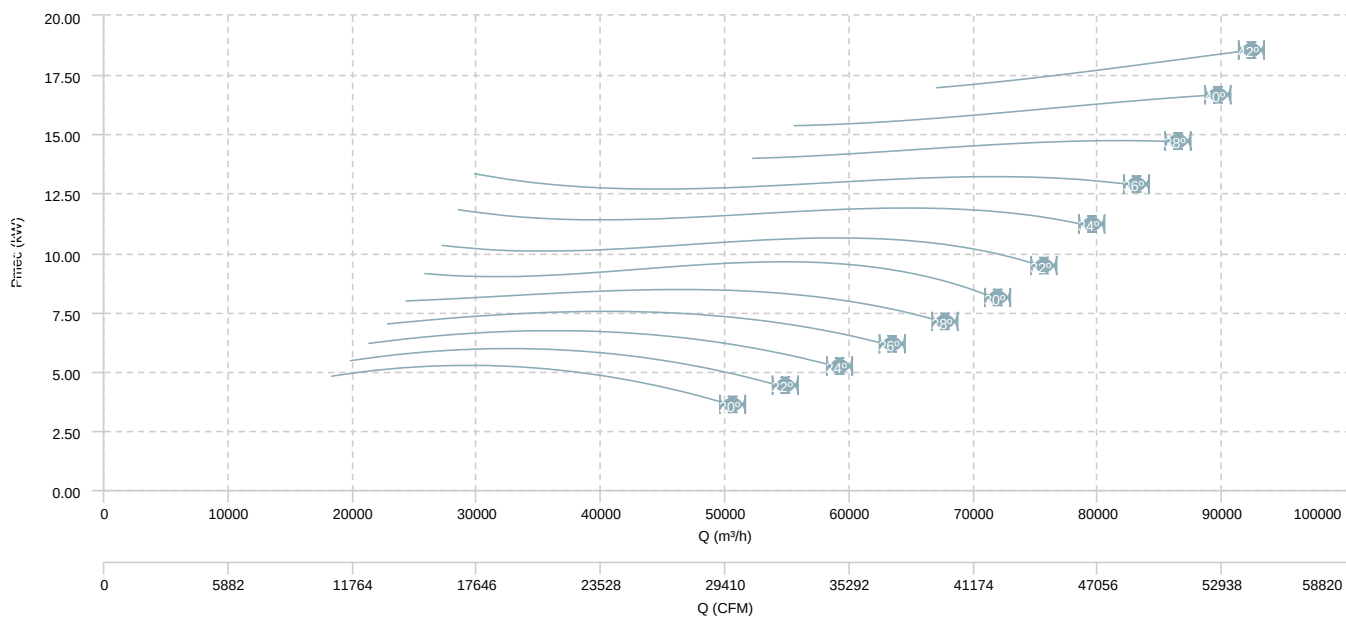


HMF 112 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

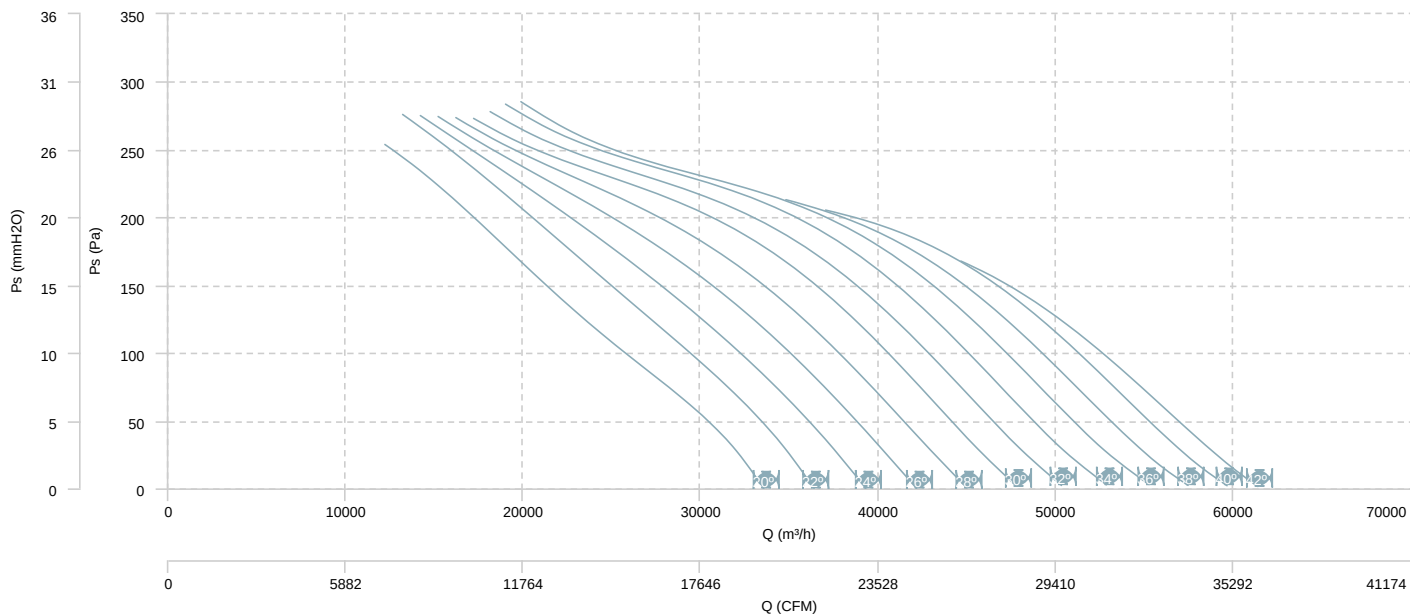


**AIR FLOW - MECHANICAL POWER (4 poles)**

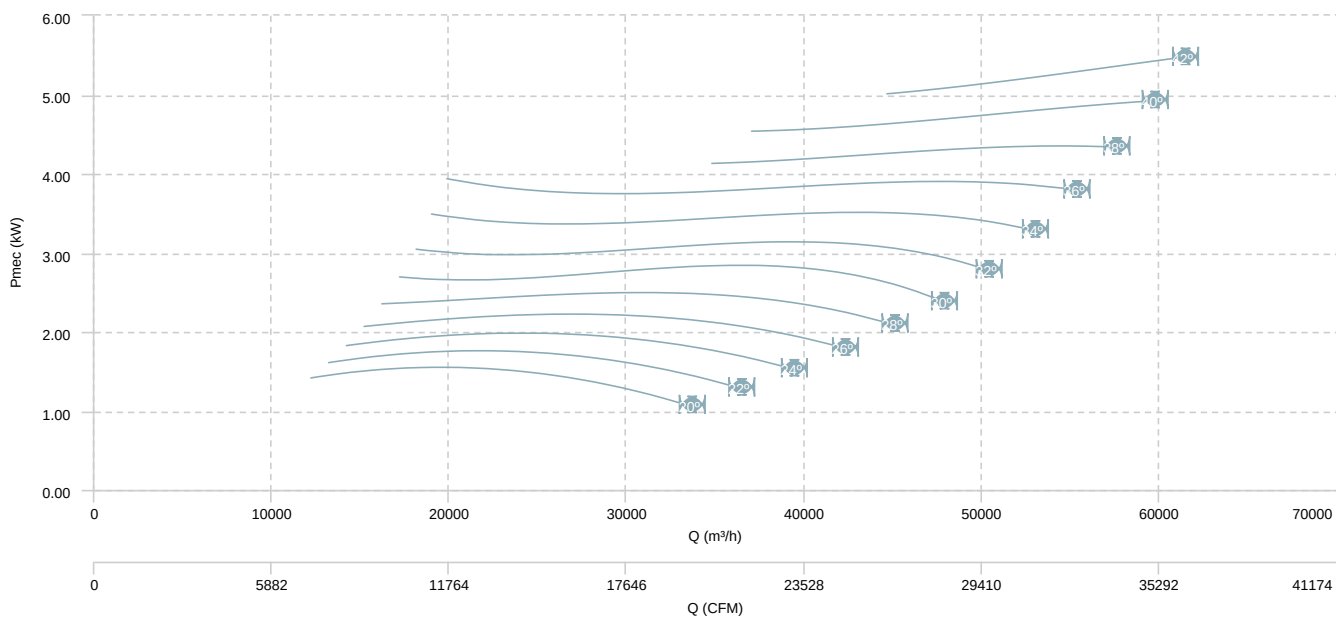


HMF 112 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (6 poles)**

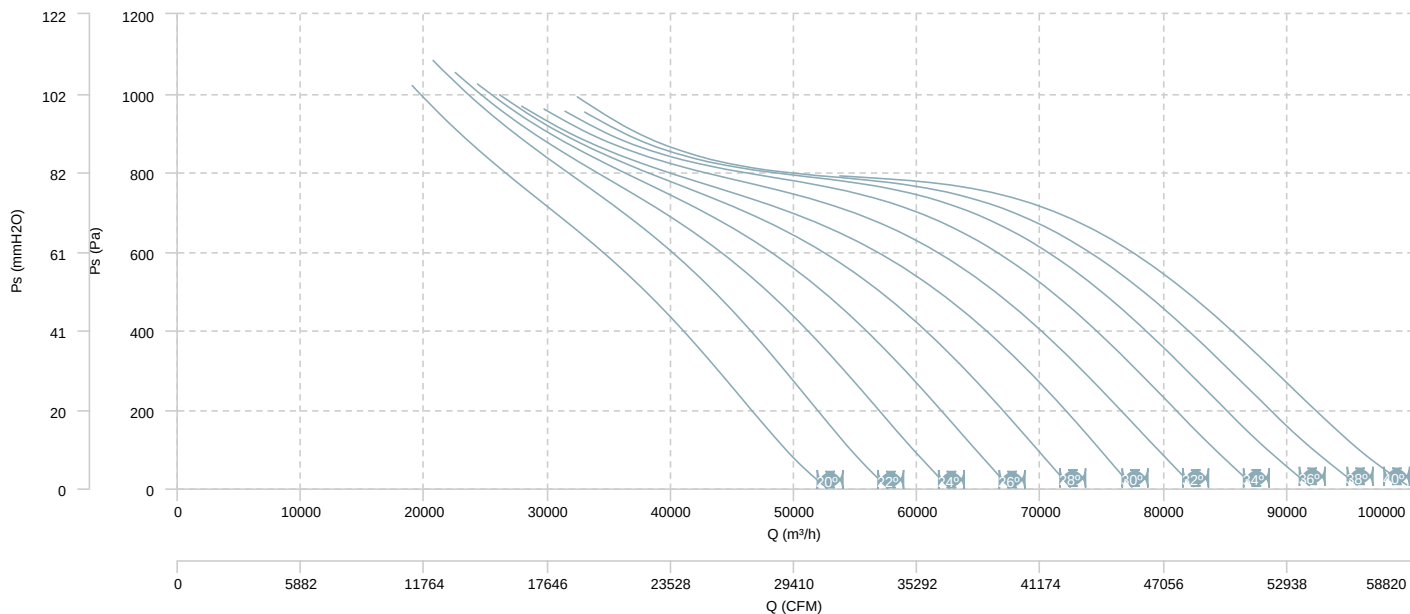


**AIR FLOW - MECHANICAL POWER (6 poles)**

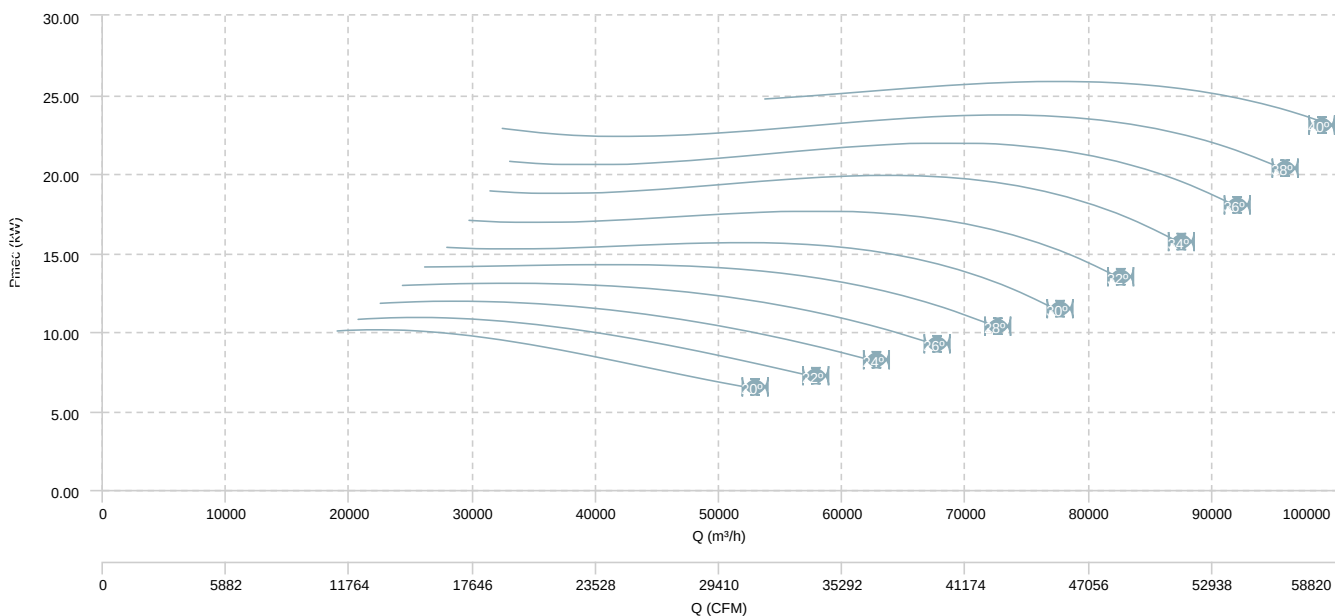


HMF 112 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

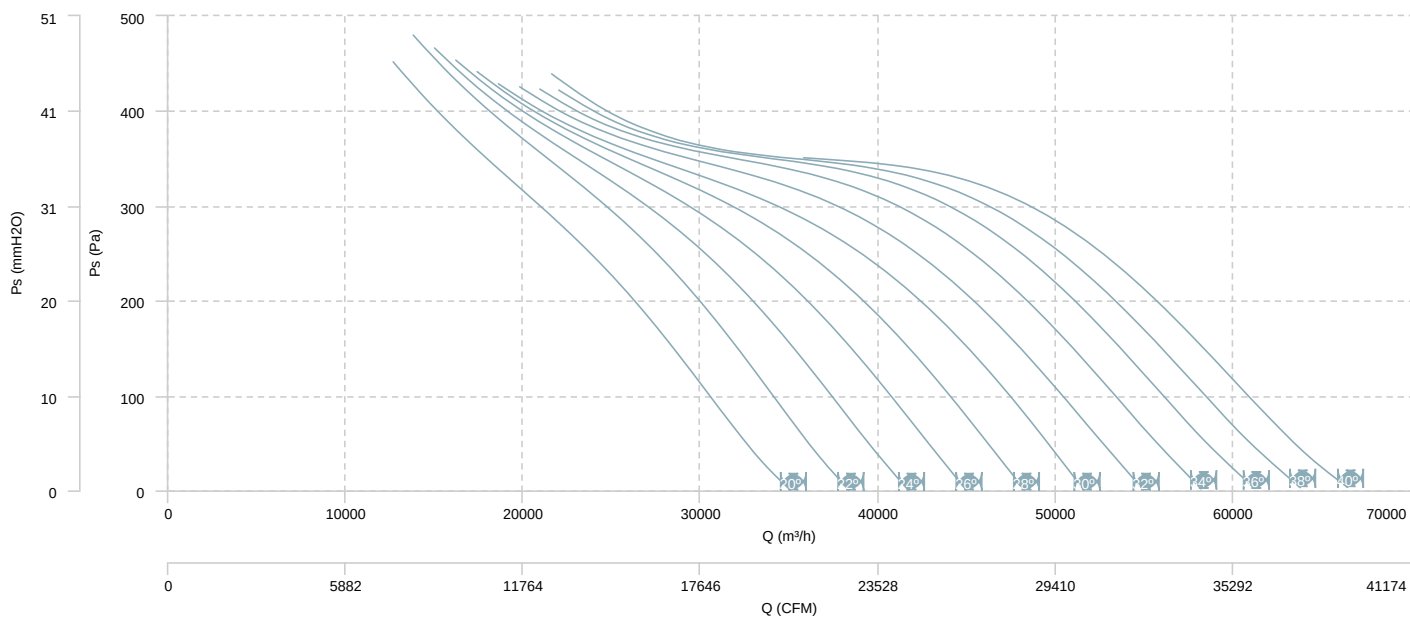


**AIR FLOW - MECHANICAL POWER (4 poles)**

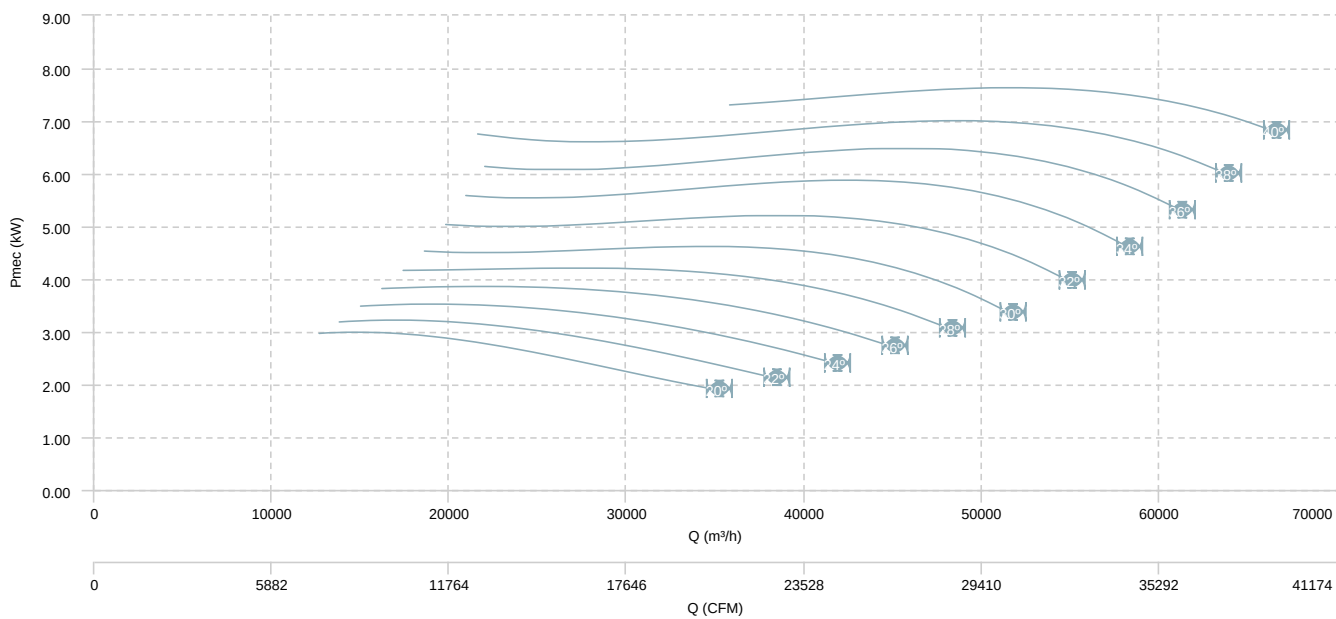


HMF 112 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (6 poles)**

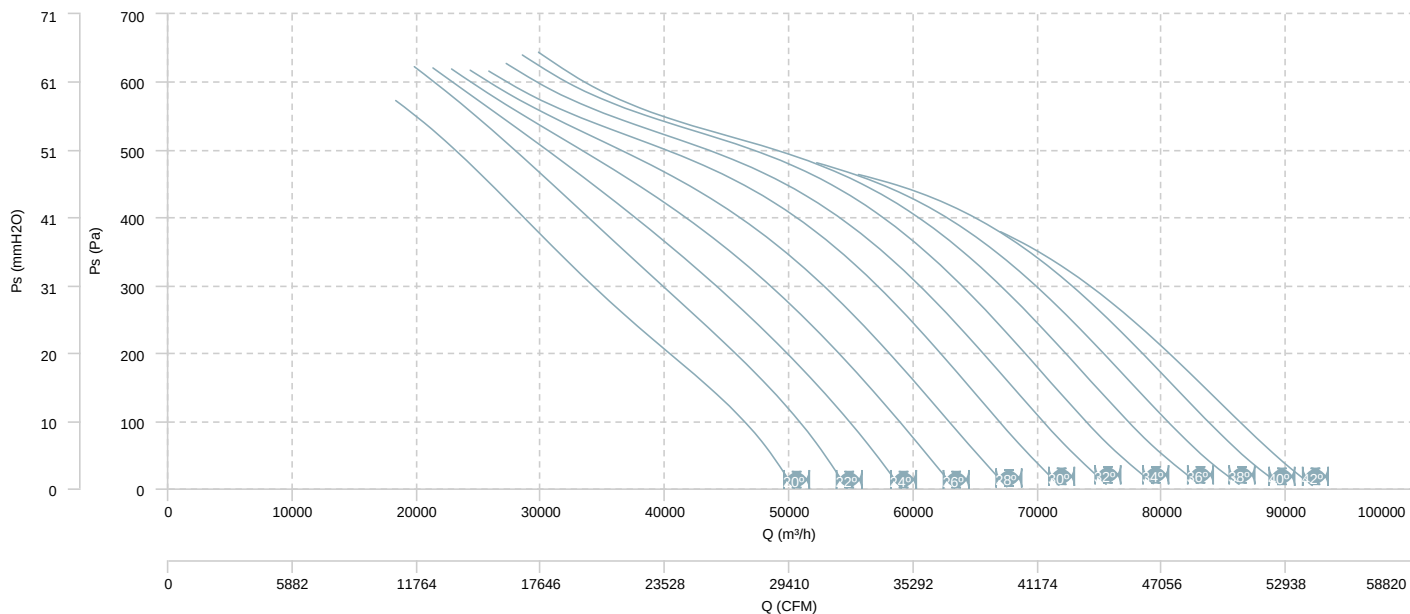


**AIR FLOW - MECHANICAL POWER (6 poles)**

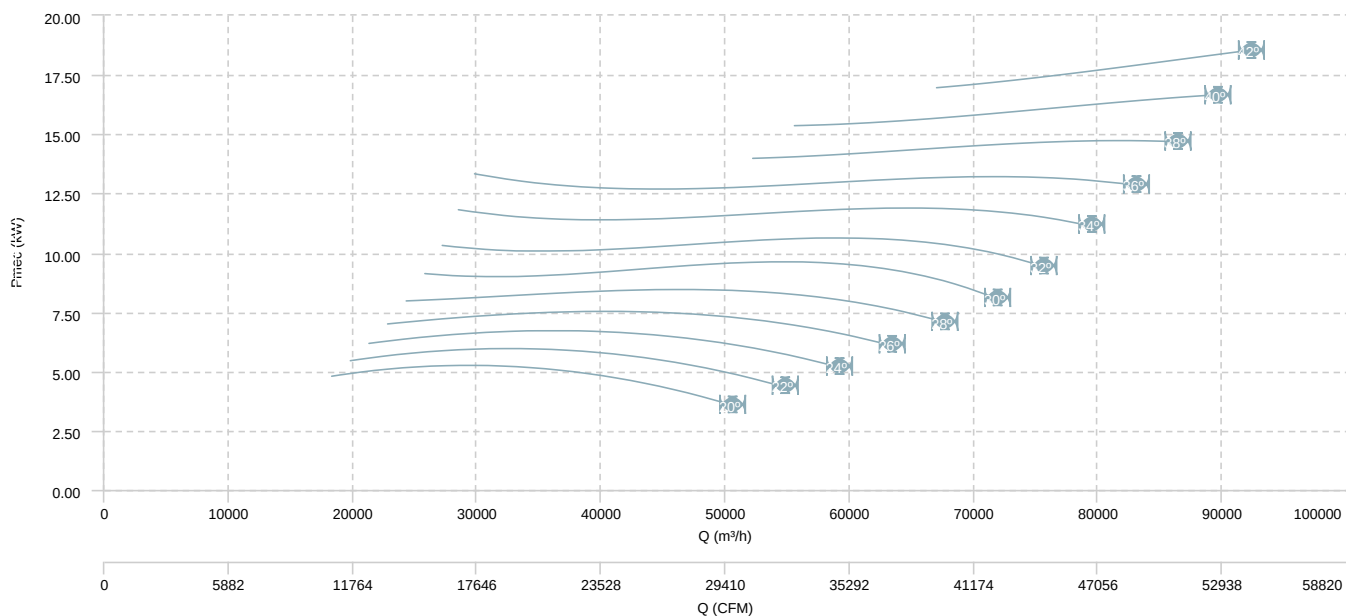


HMF 112 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

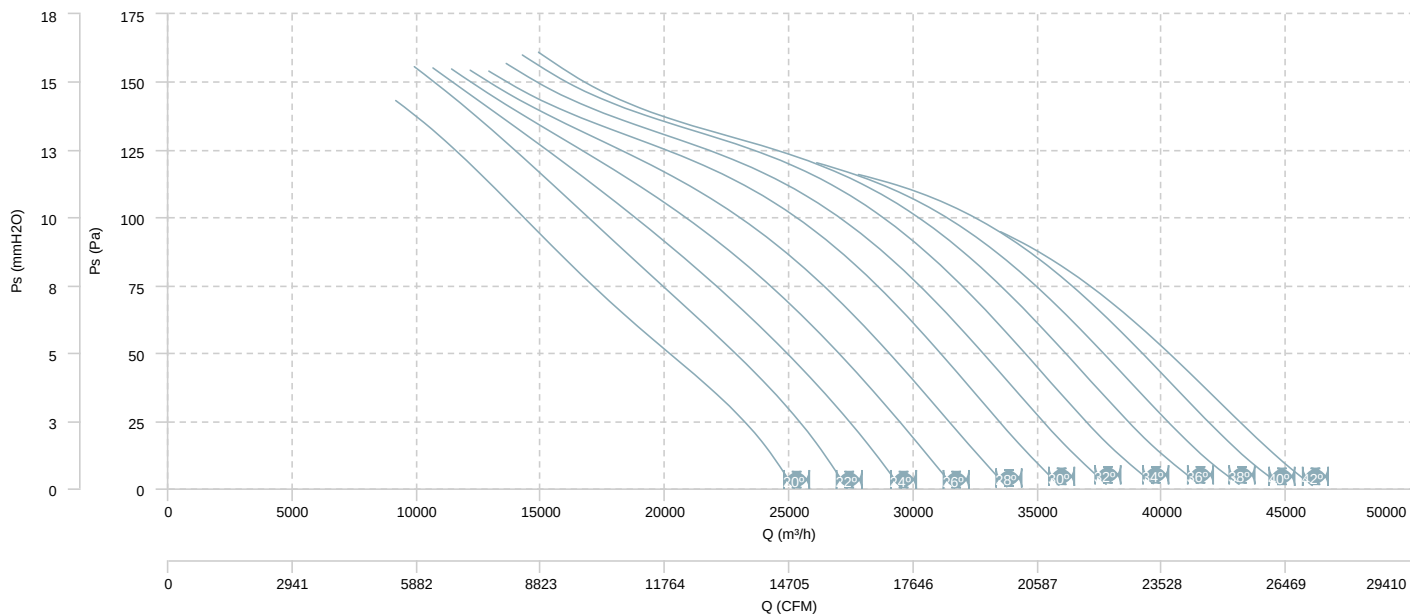


**AIR FLOW - MECHANICAL POWER (4 poles)**

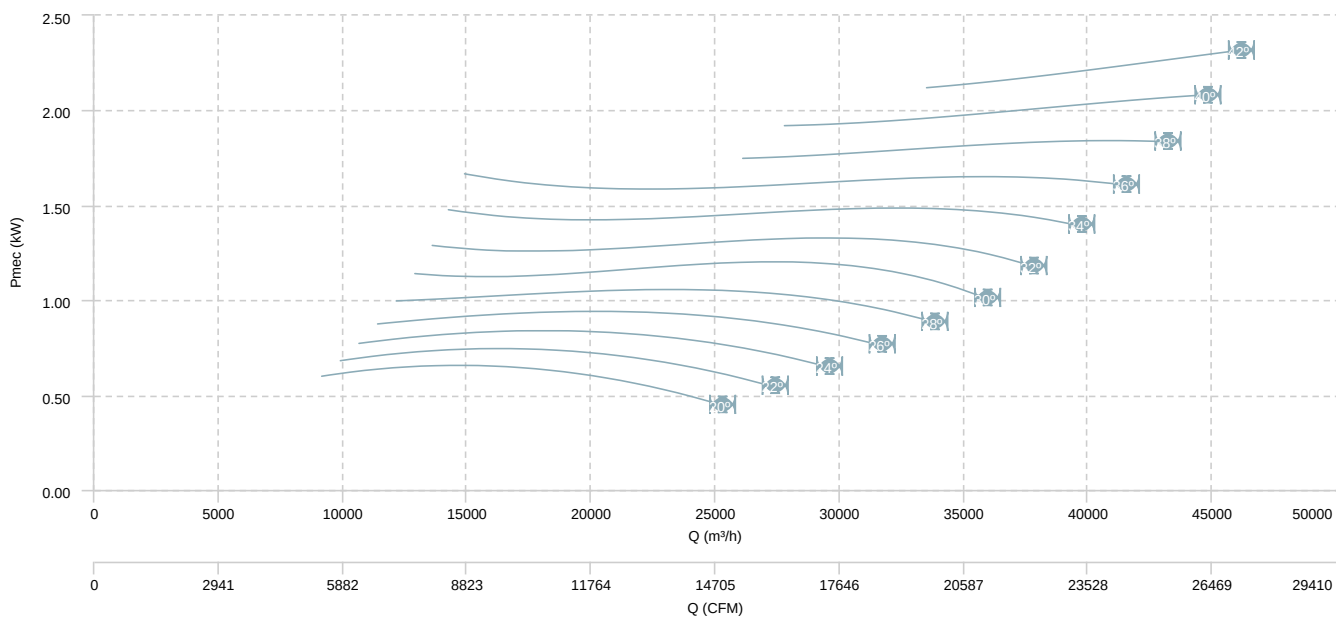


HMF 112 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (8 poles)**

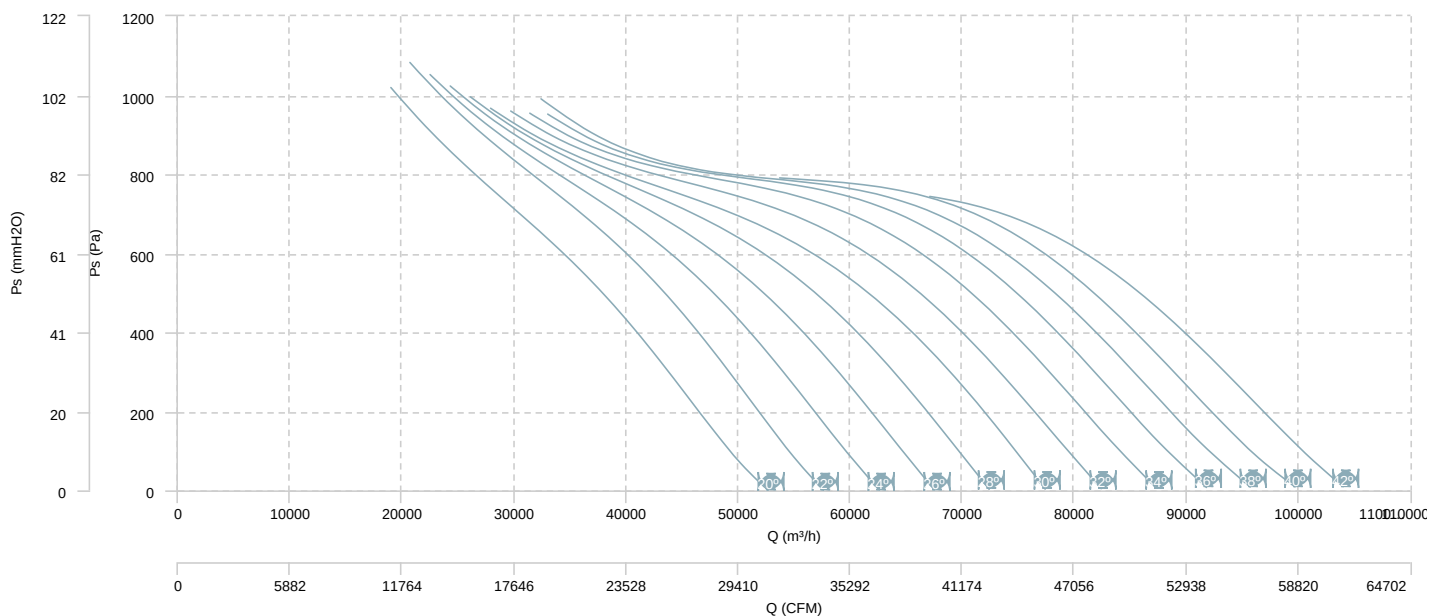


**AIR FLOW - MECHANICAL POWER (8 poles)**

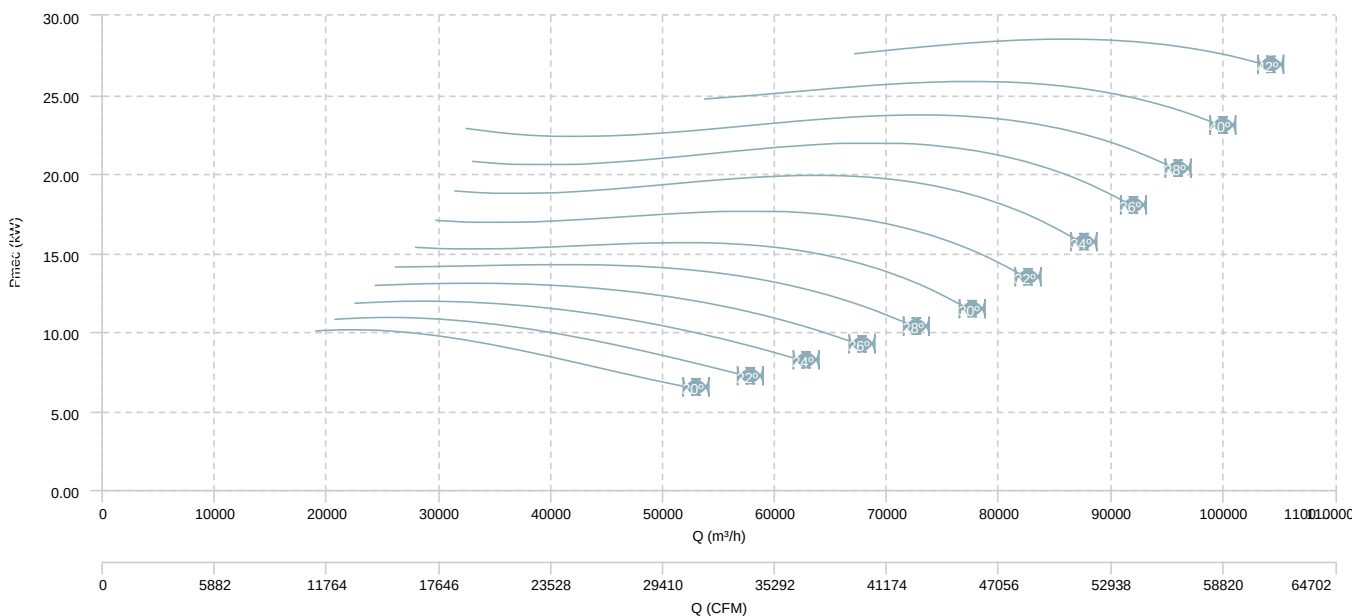


HMF 112 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

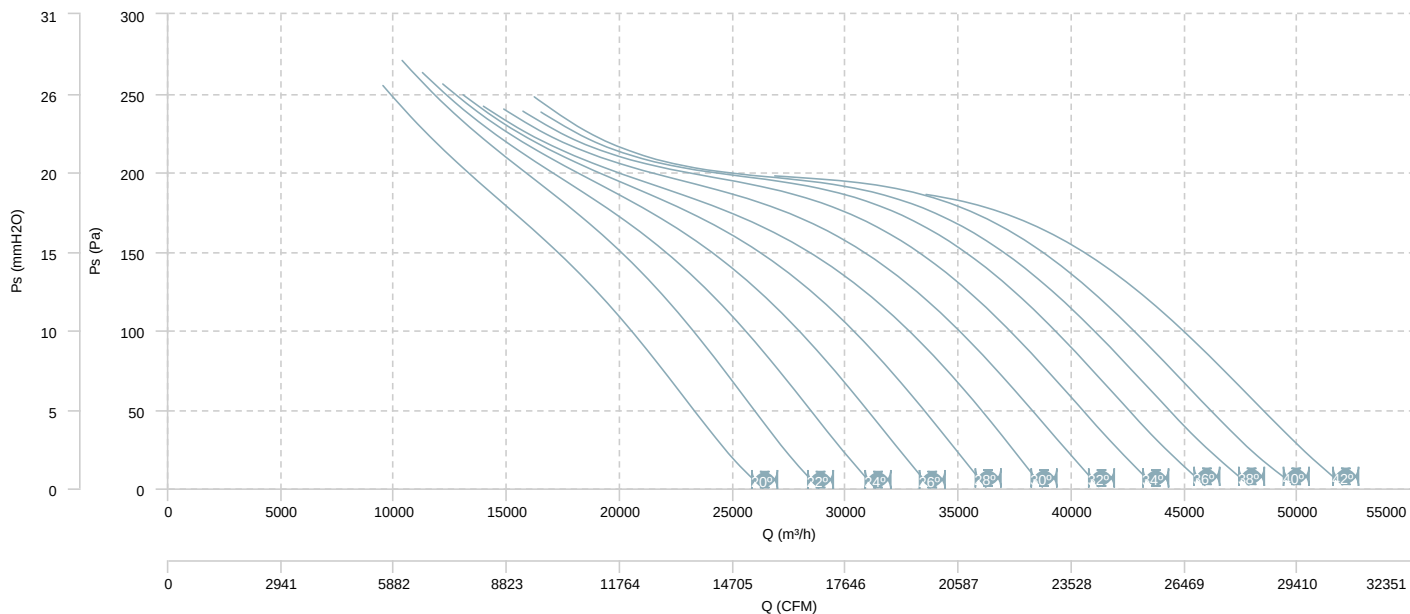


**AIR FLOW - MECHANICAL POWER (4 poles)**

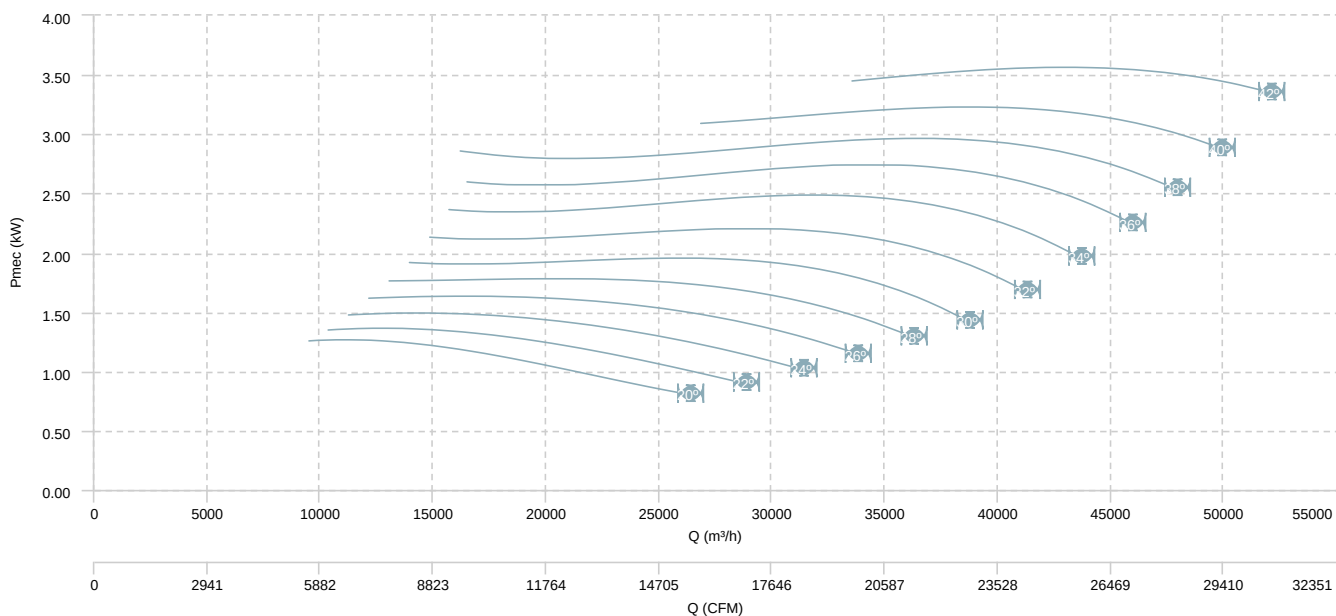


HMF 112 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (8 poles)**



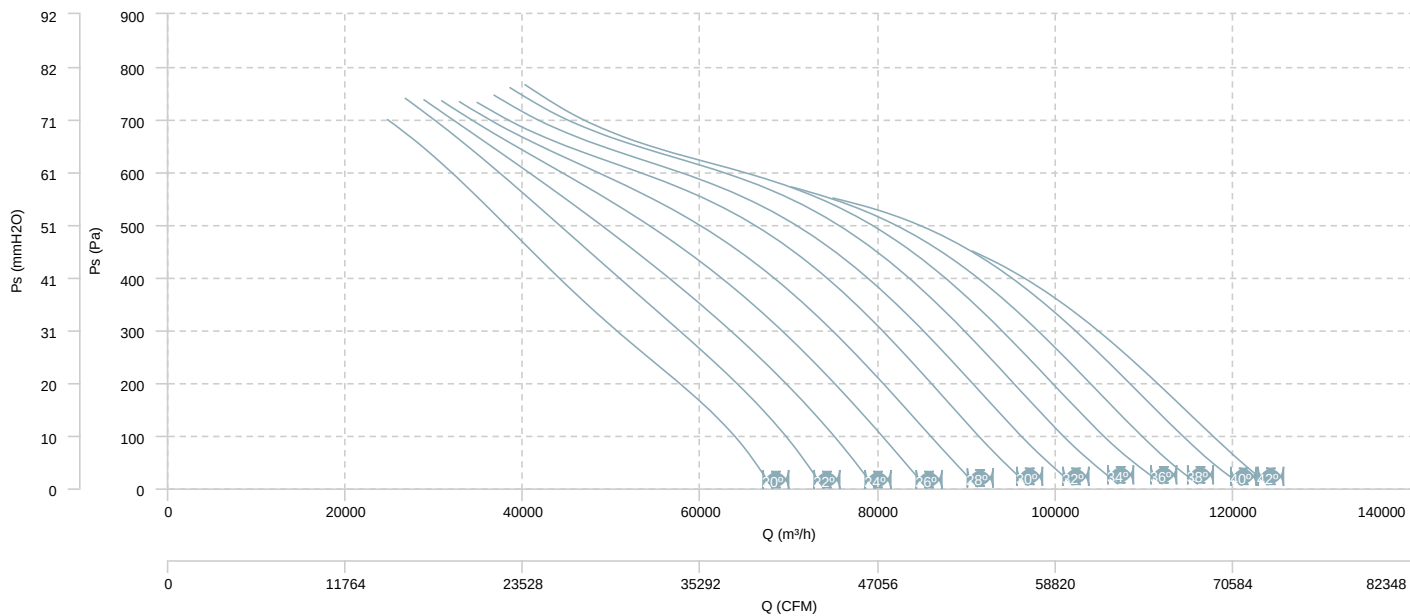
**AIR FLOW - MECHANICAL POWER (8 poles)**



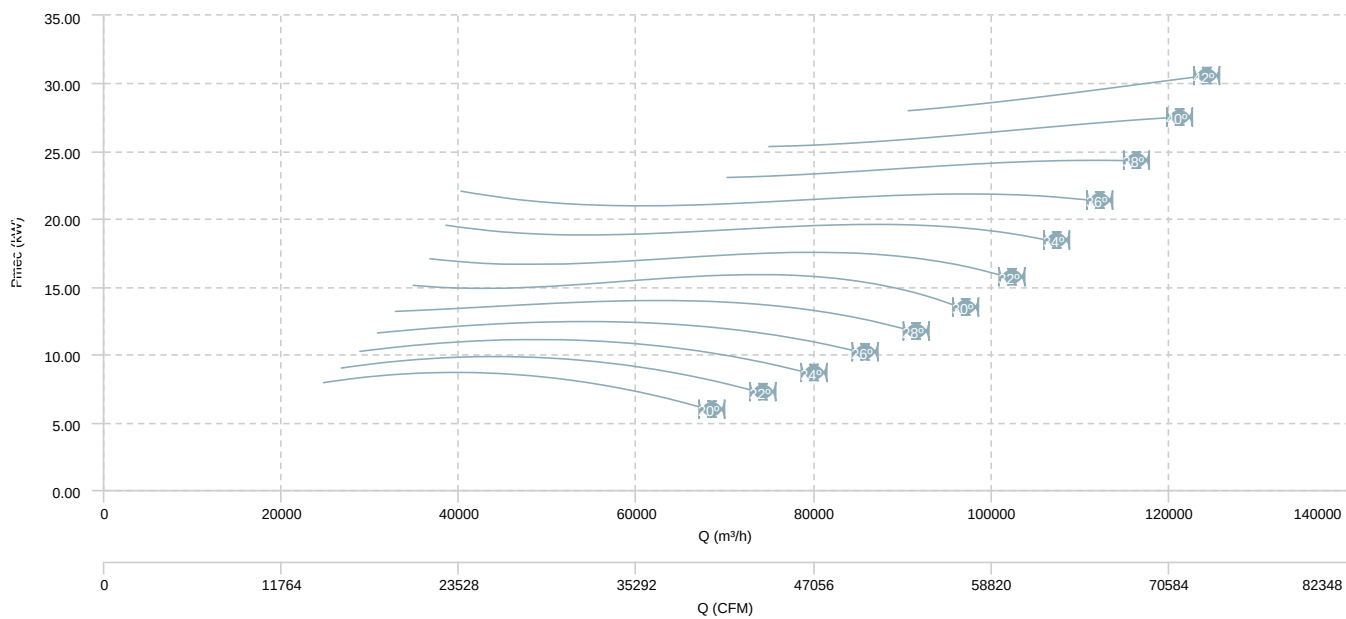


HMF 125 T4 (A3:4) F400

**AIR FLOW - PRESSURE**

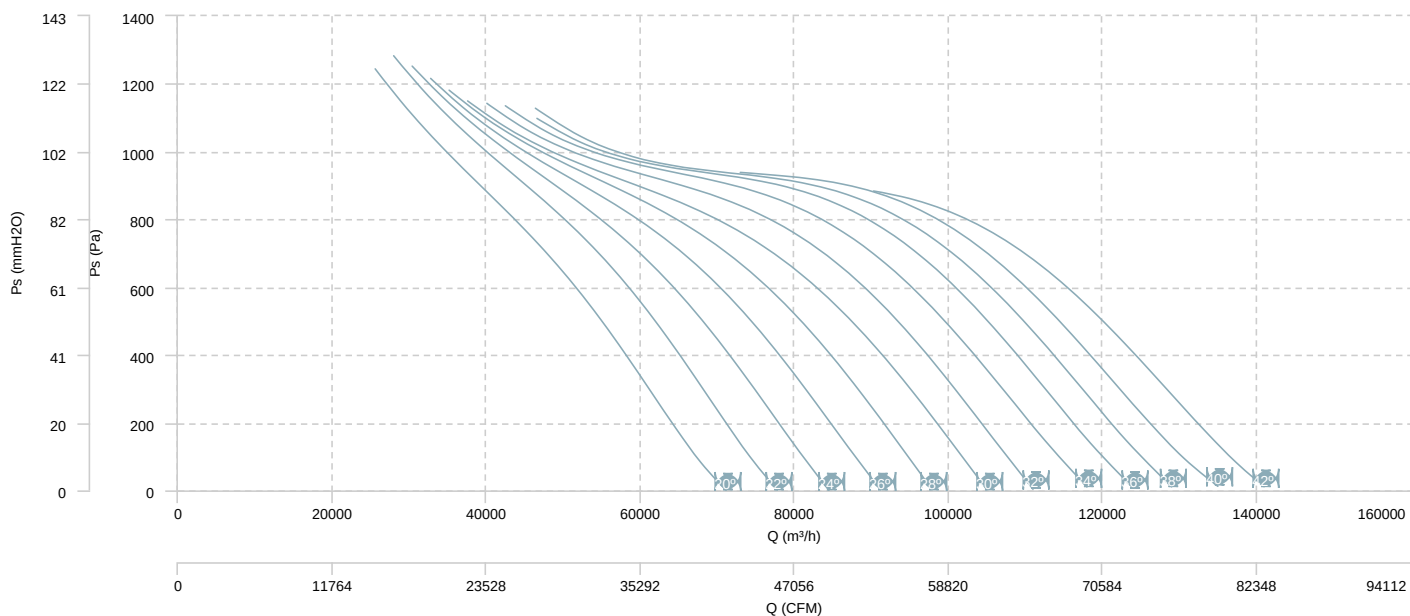


**AIR FLOW - MECHANICAL POWER**

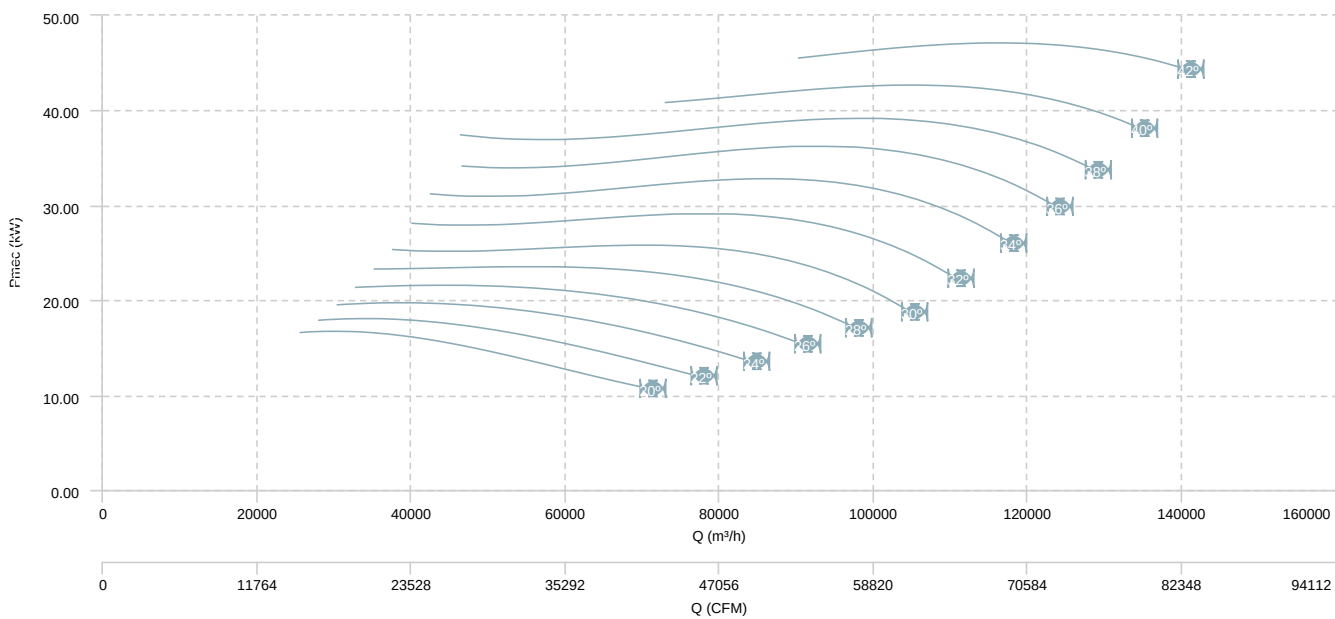


HMF 125 T4 (A3:8) F400

## AIR FLOW - PRESSURE

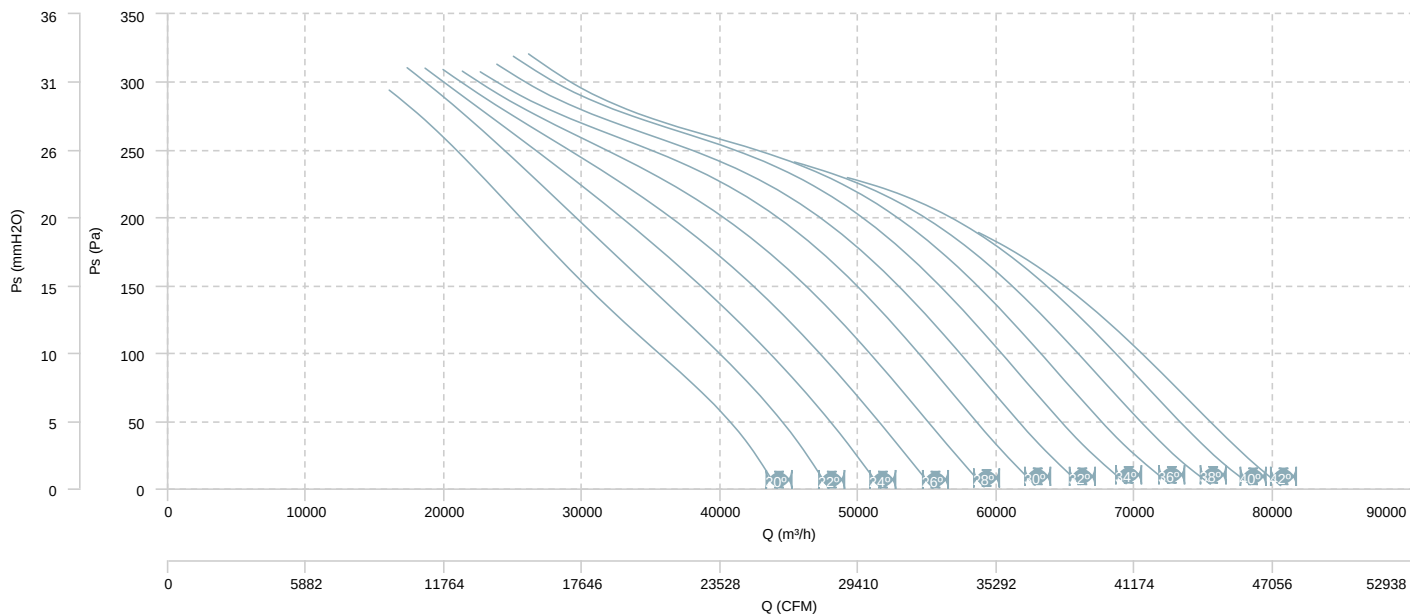


## AIR FLOW - MECHANICAL POWER

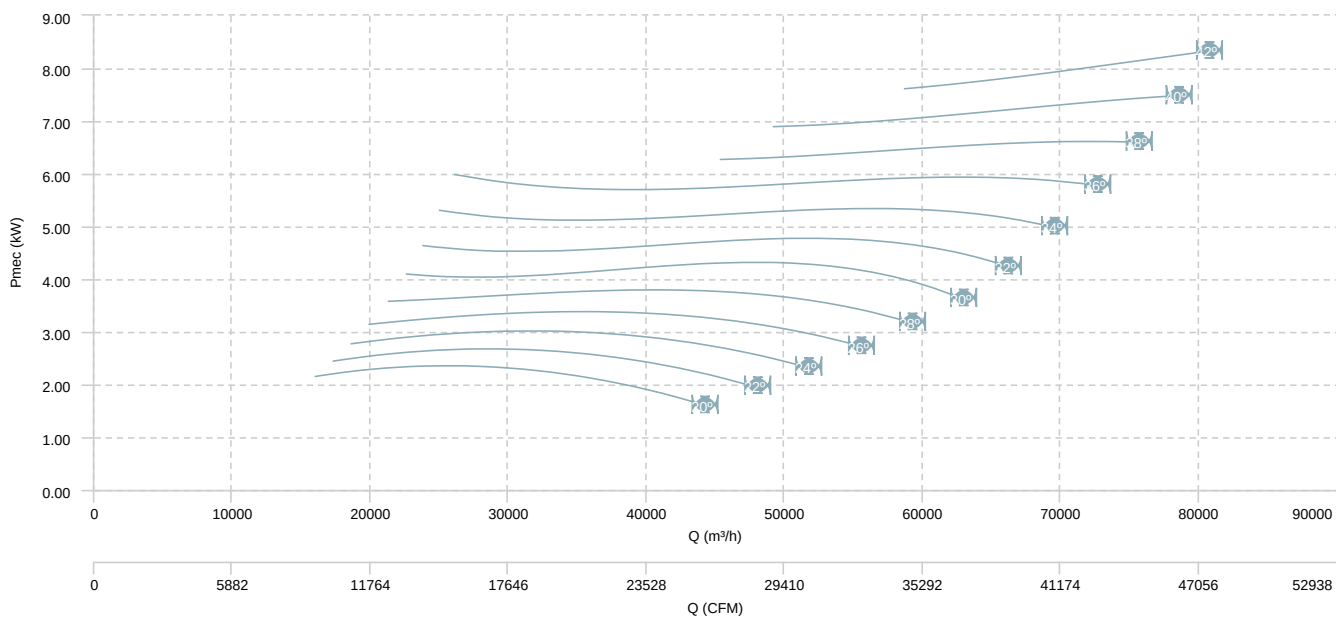


HMF 125 T6 (A3:4) F400

## AIR FLOW - PRESSURE

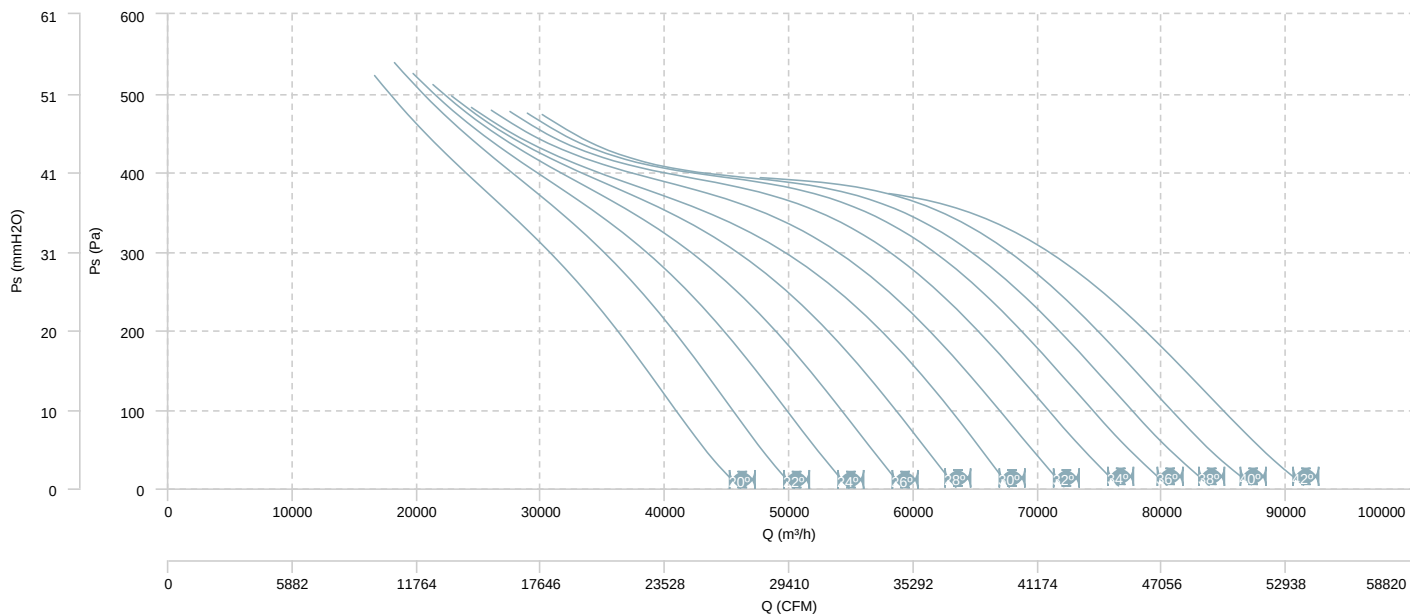


## AIR FLOW - MECHANICAL POWER

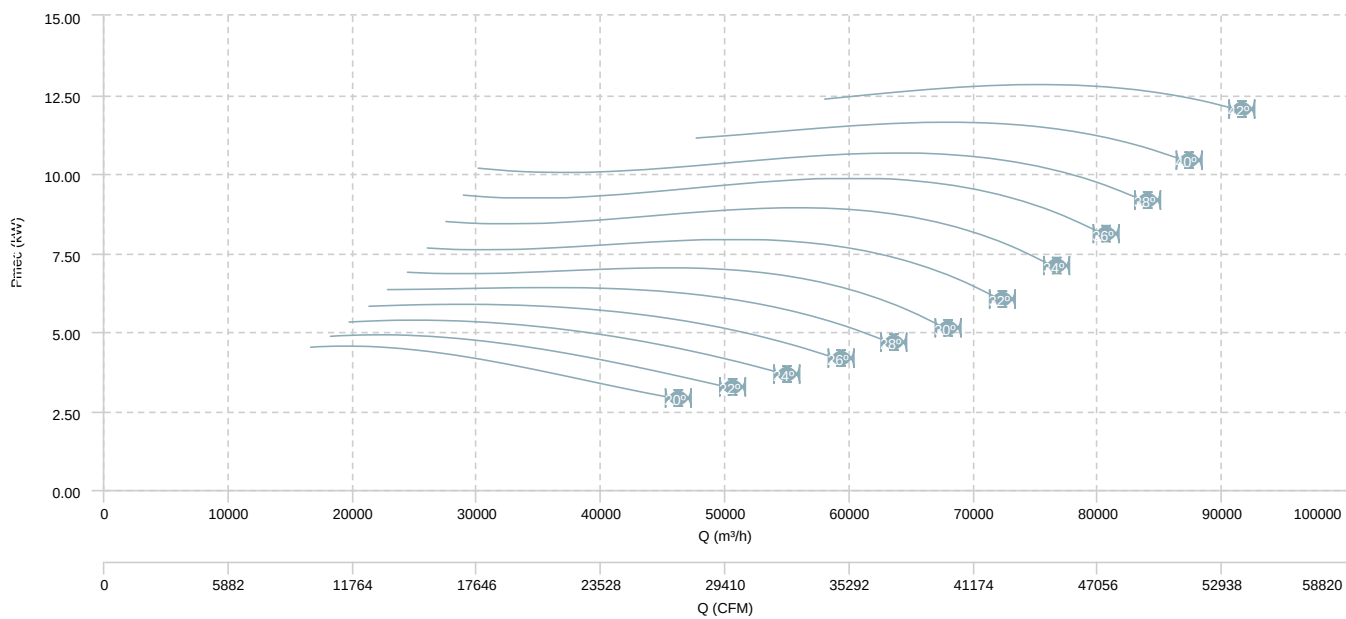


HMF 125 T6 (A3:8) F400

## AIR FLOW - PRESSURE

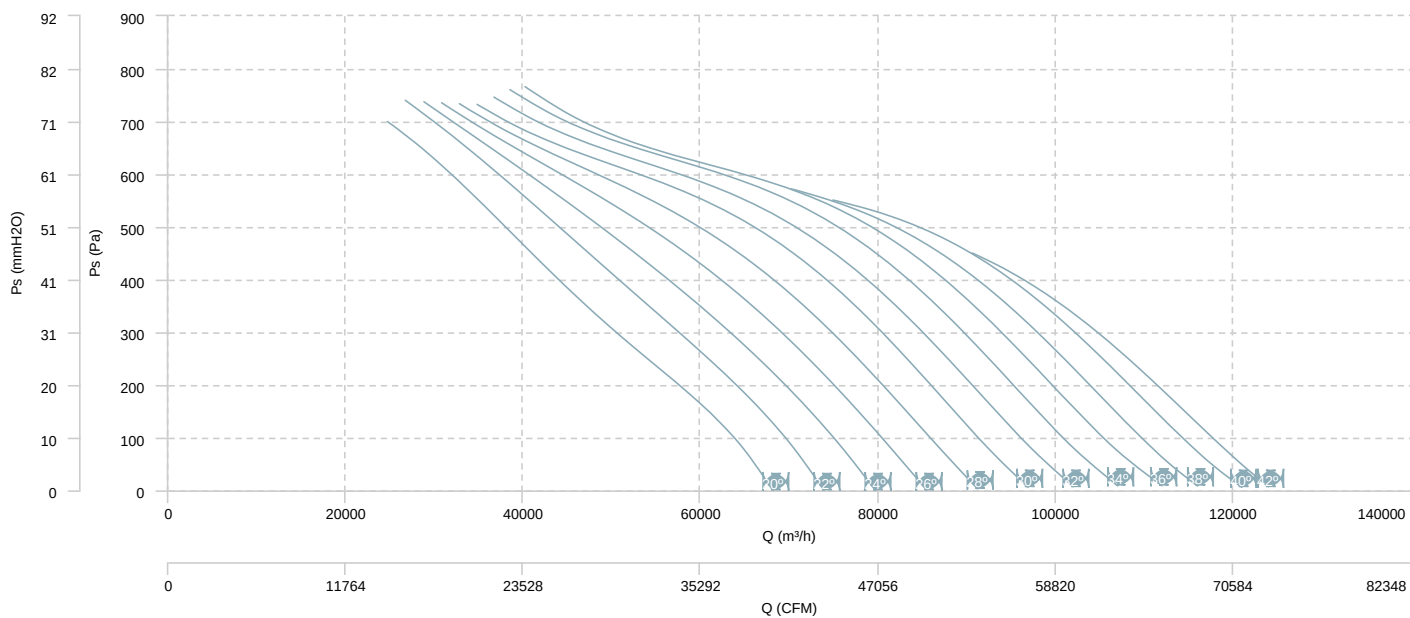


## AIR FLOW - MECHANICAL POWER

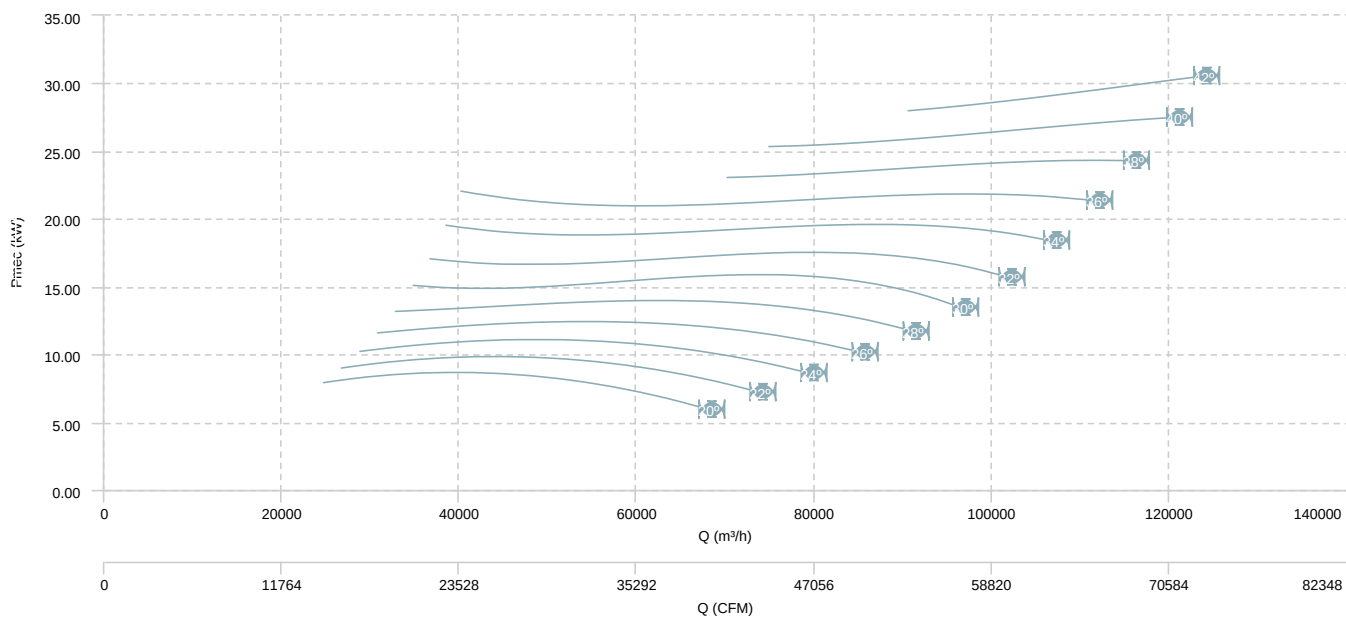


HMF 125 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

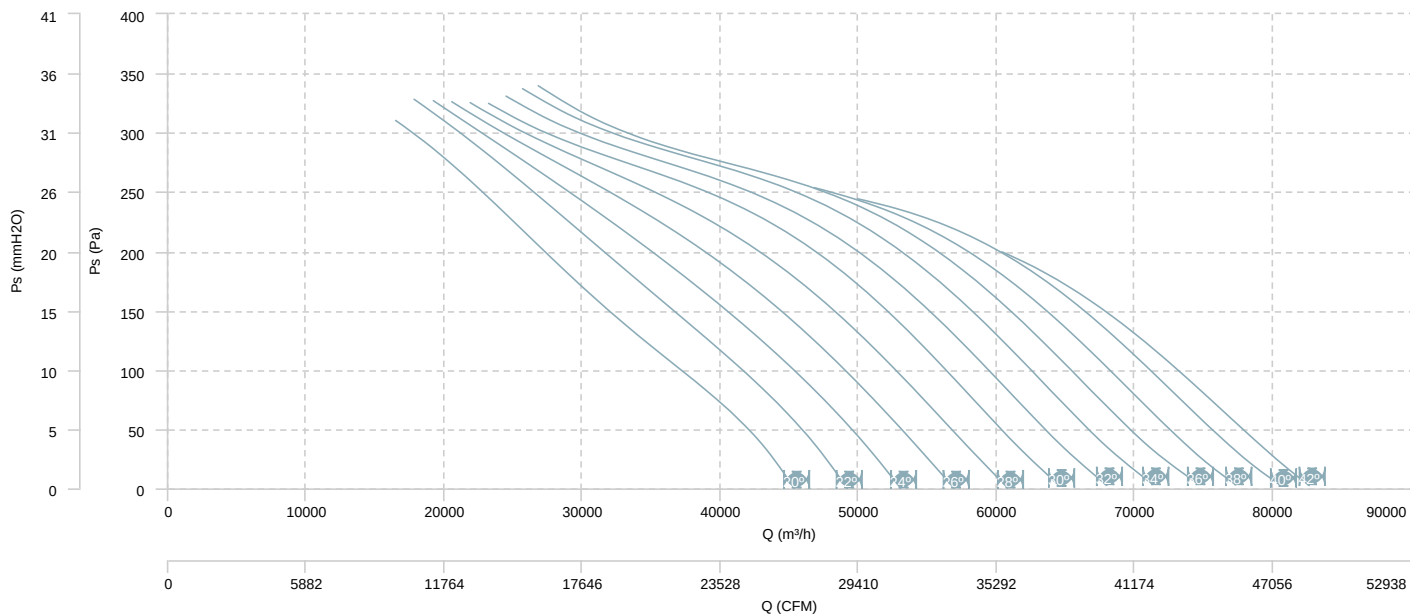


**AIR FLOW - MECHANICAL POWER (4 poles)**

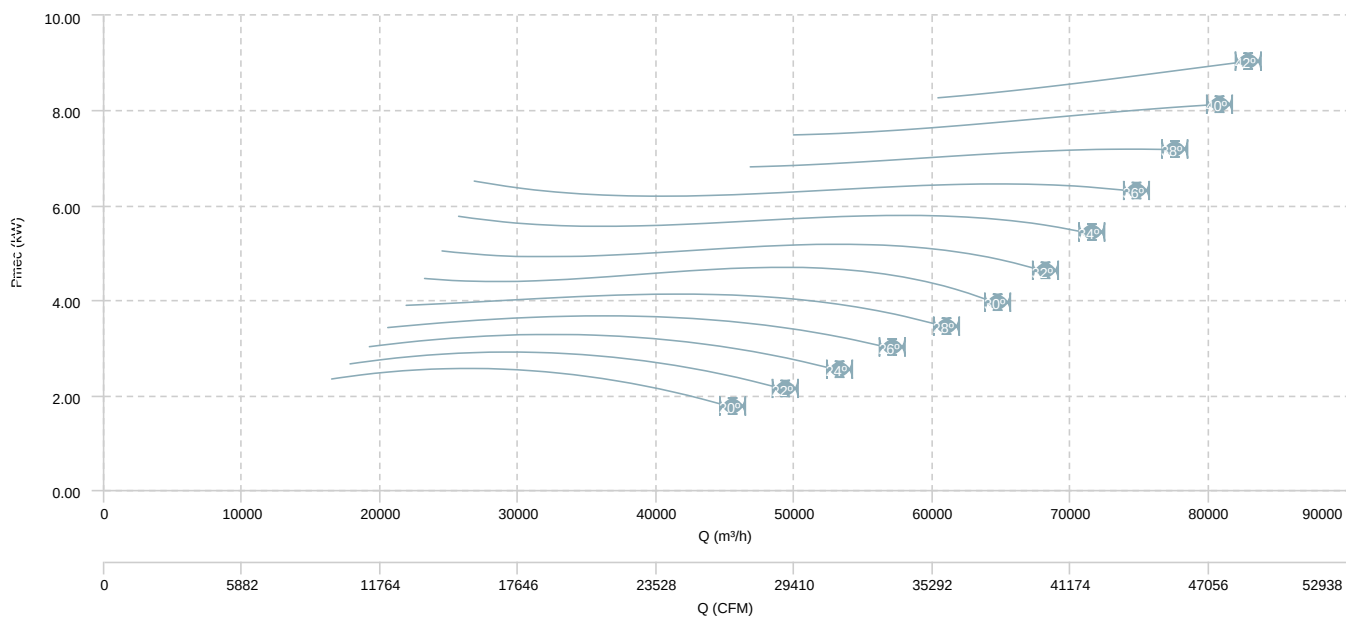


HMF 125 T4/T6 (A3:4) F400

**AIR FLOW - PRESSURE (6 poles)**

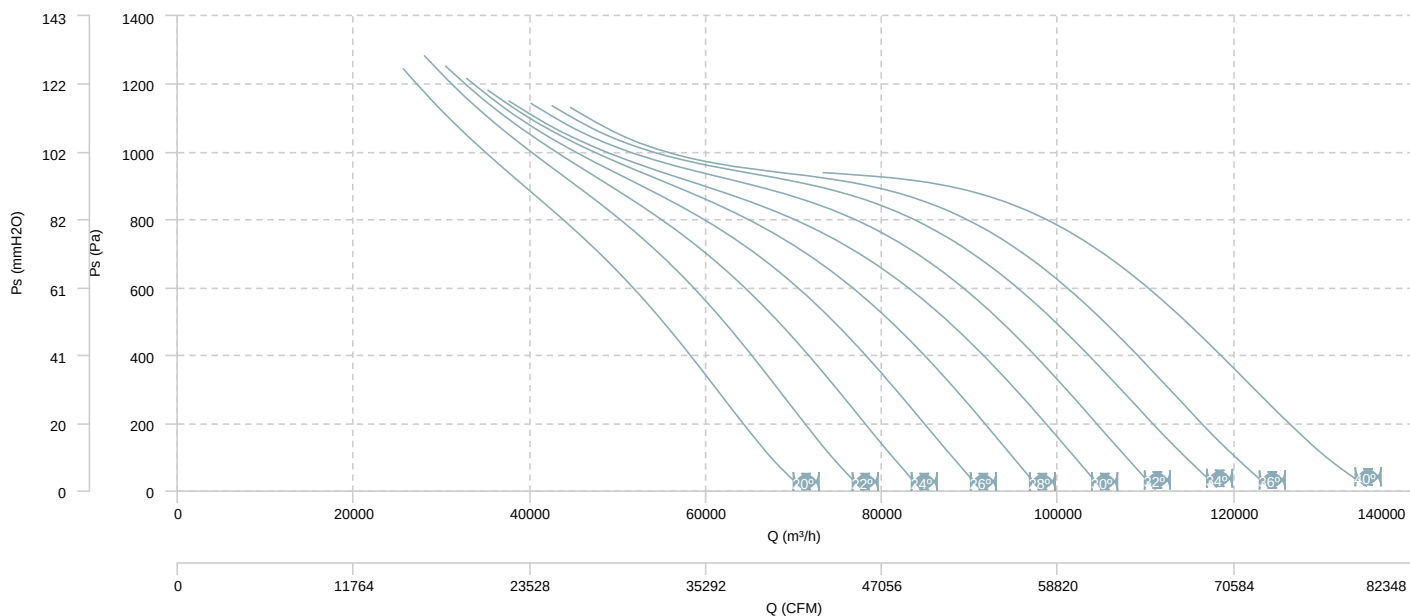


**AIR FLOW - MECHANICAL POWER (6 poles)**

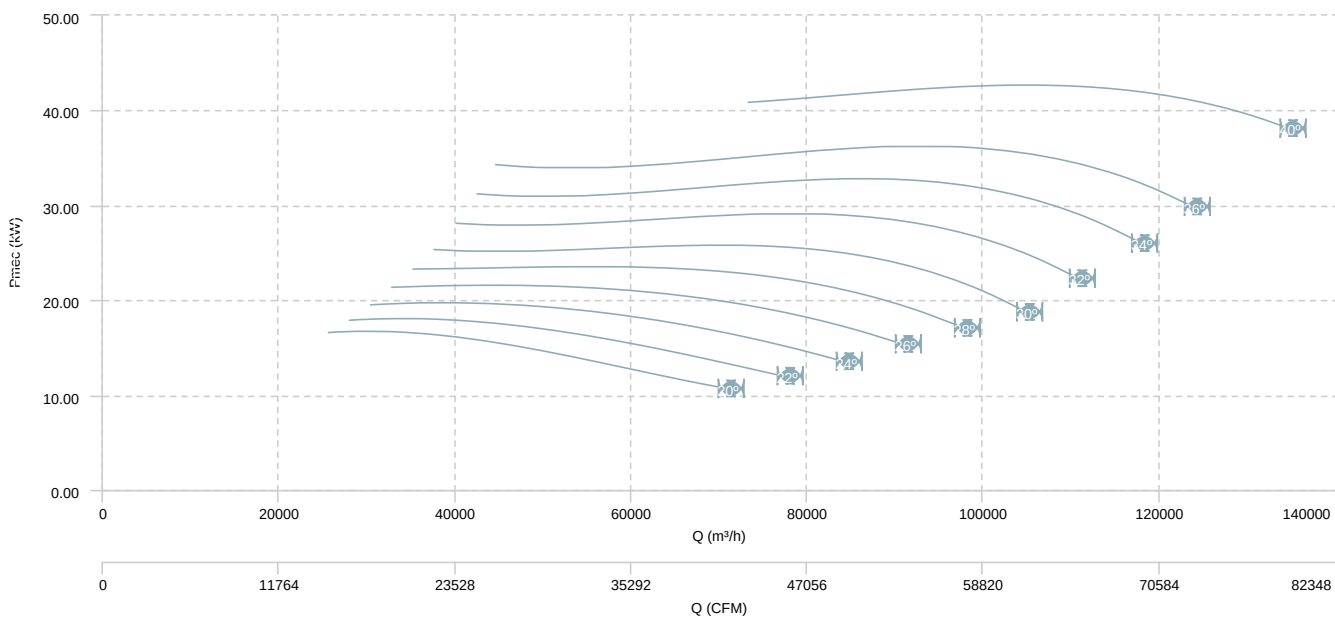


HMF 125 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

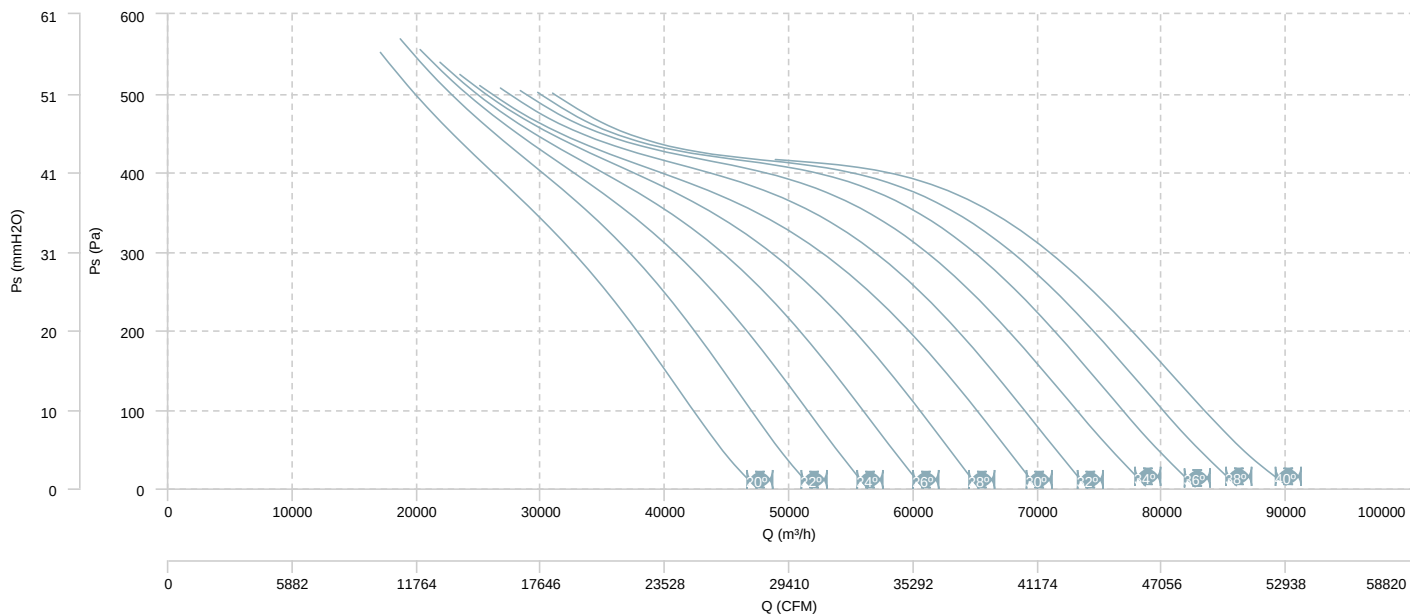


**AIR FLOW - MECHANICAL POWER (4 poles)**

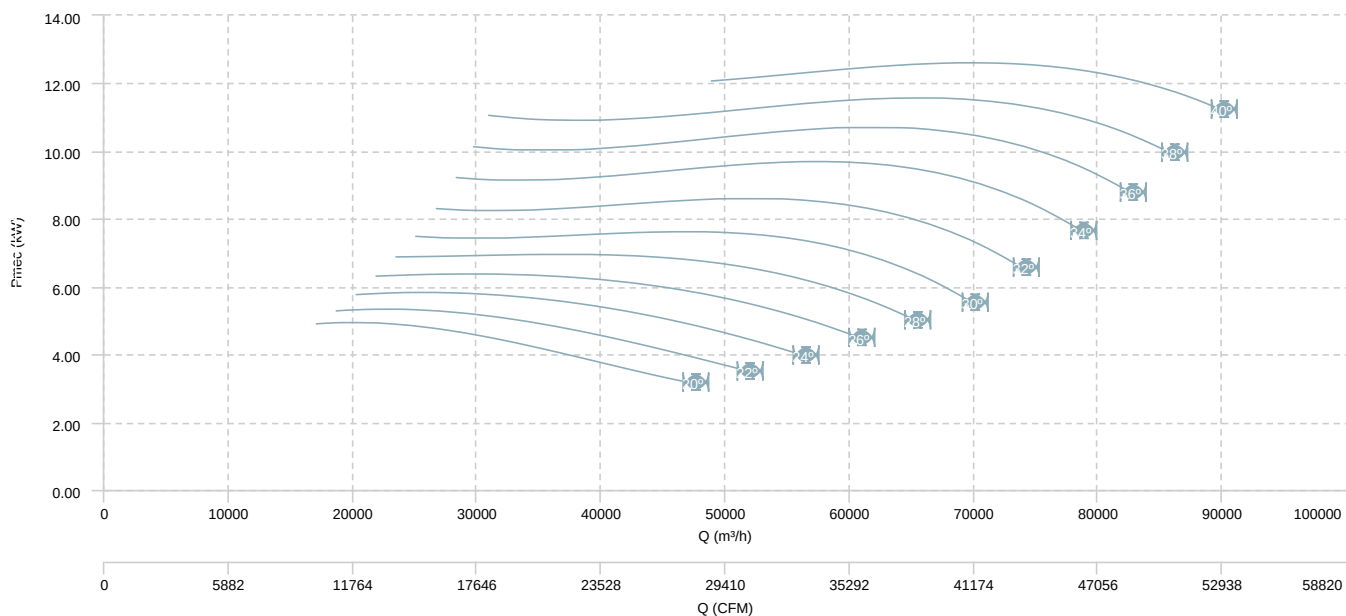


HMF 125 T4/T6 (A3:8) F400

**AIR FLOW - PRESSURE (6 poles)**



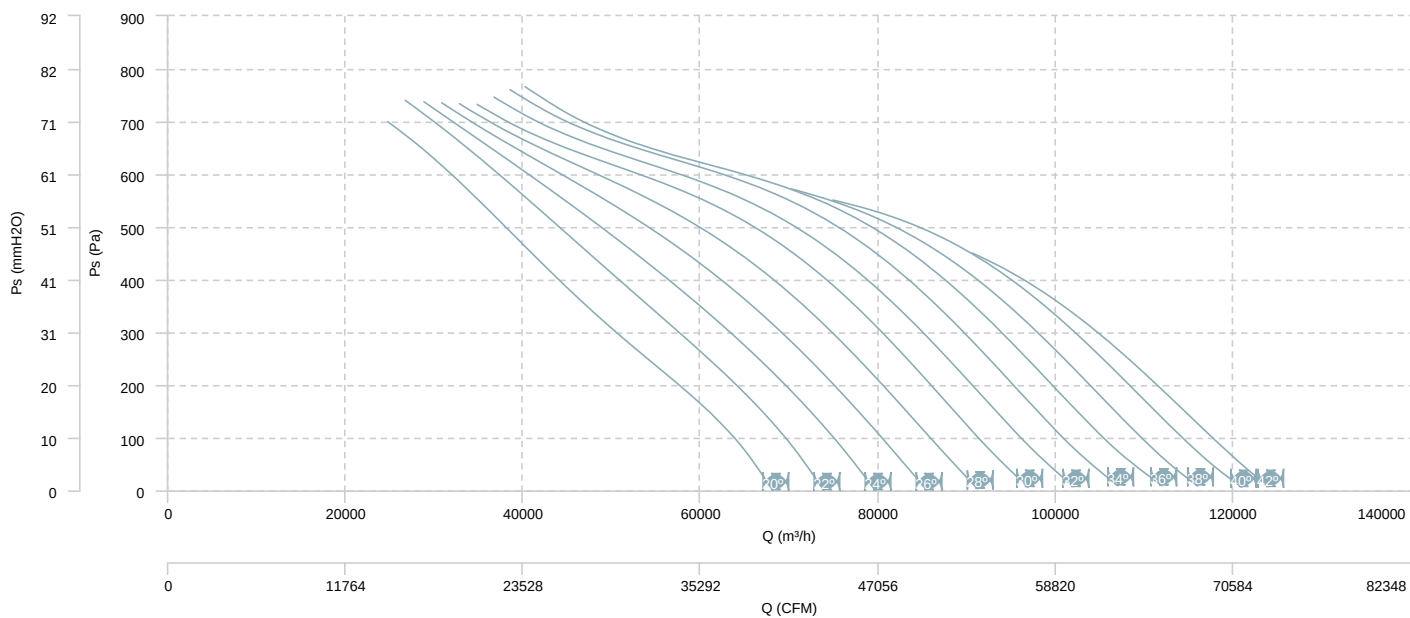
**AIR FLOW - MECHANICAL POWER (6 poles)**



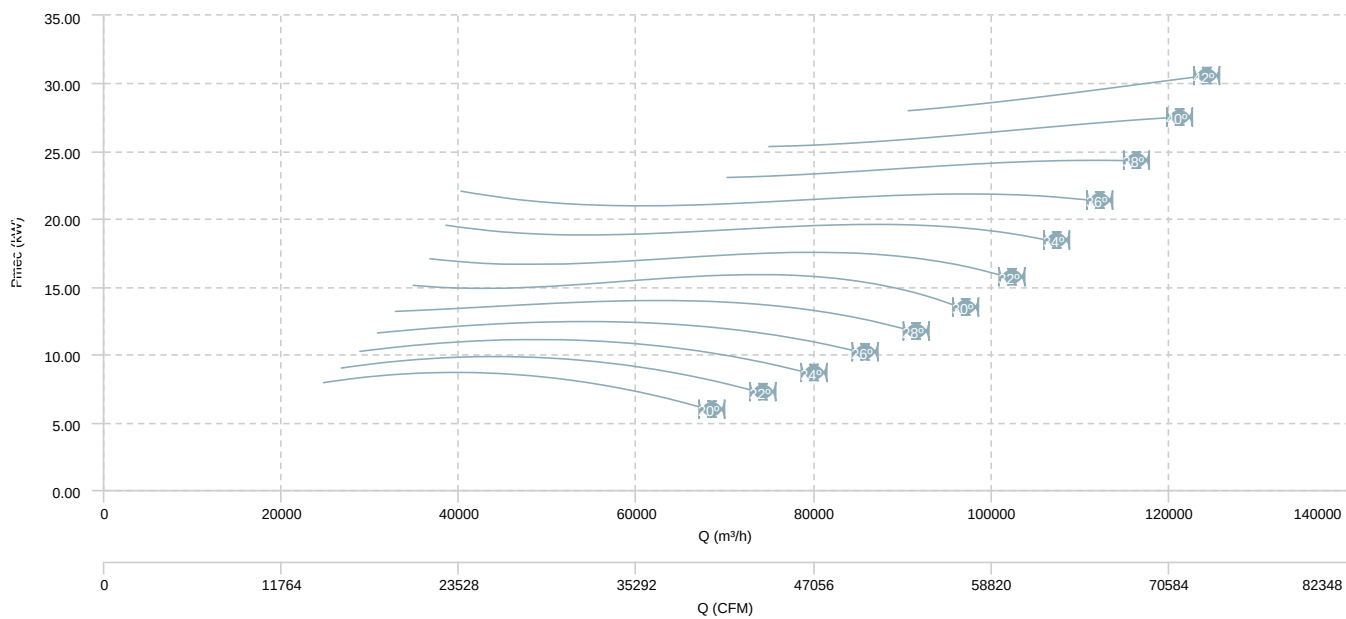


HMF 125 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (4 poles)**

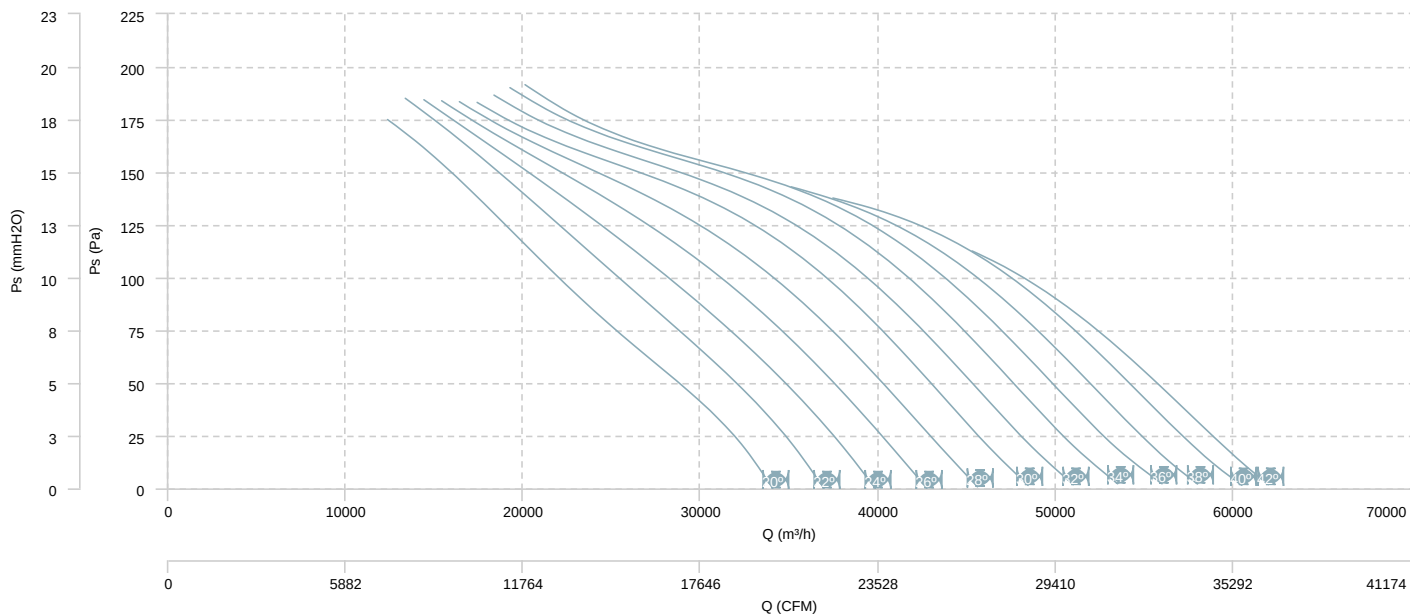


**AIR FLOW - MECHANICAL POWER (4 poles)**

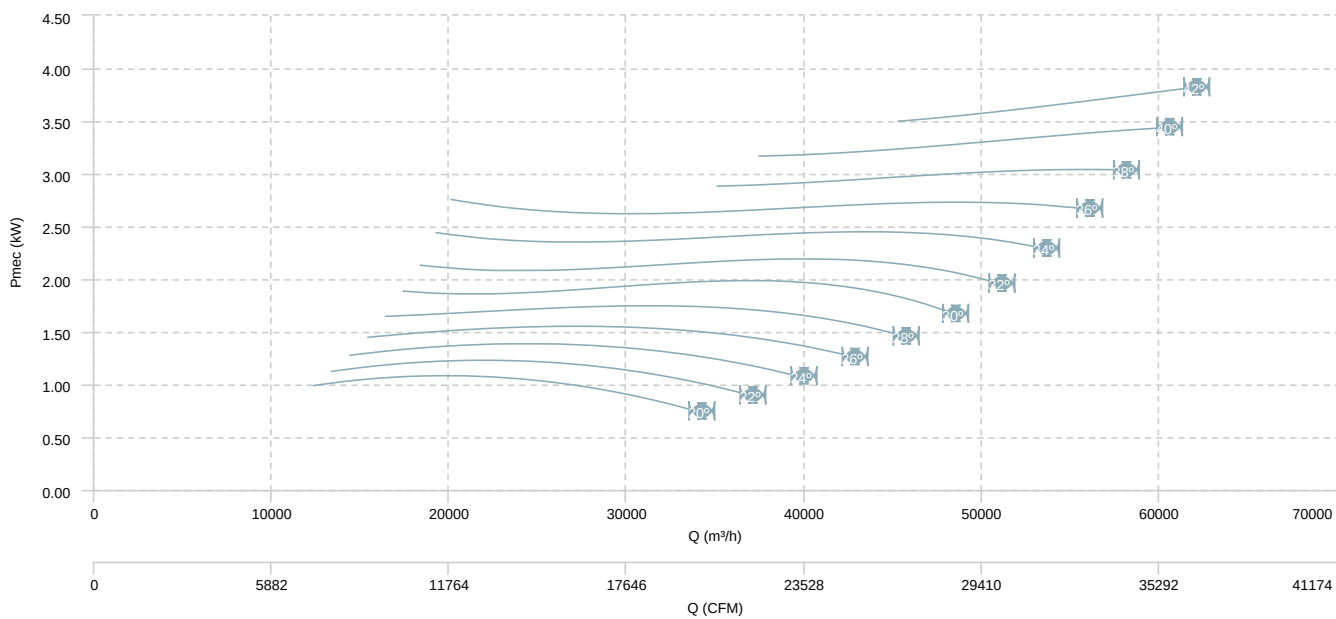


HMF 125 T4/T8 (A3:4) F400

**AIR FLOW - PRESSURE (8 poles)**

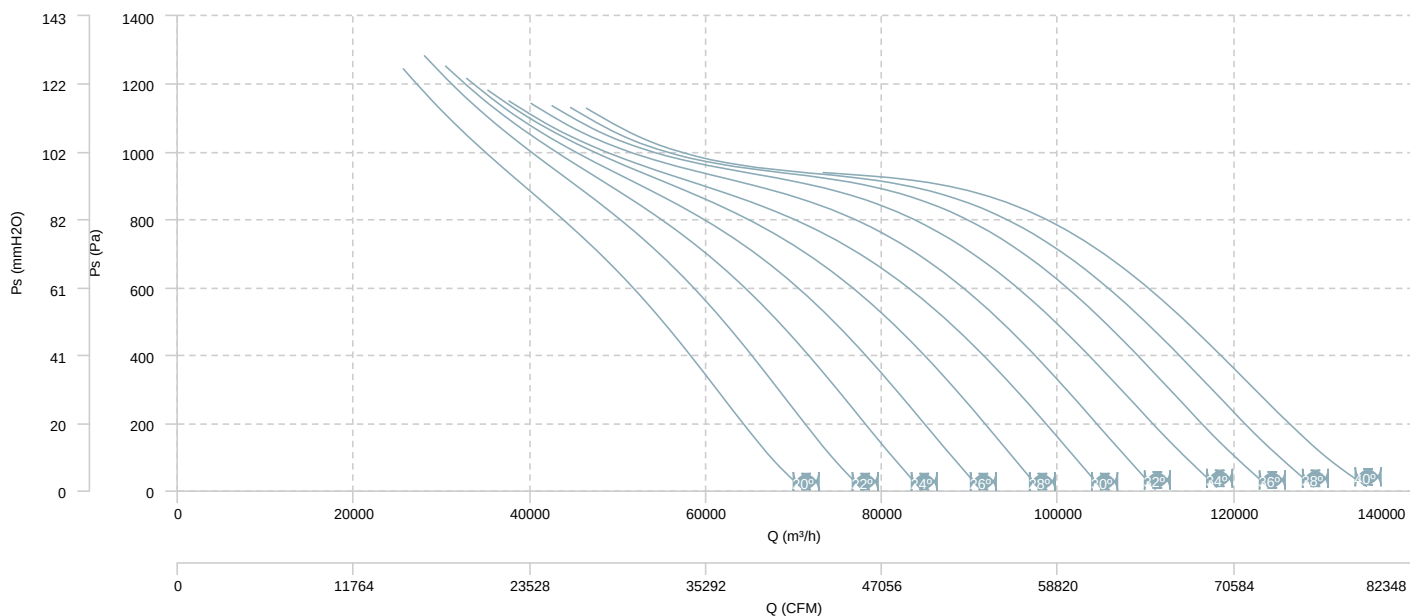


**AIR FLOW - MECHANICAL POWER (8 poles)**

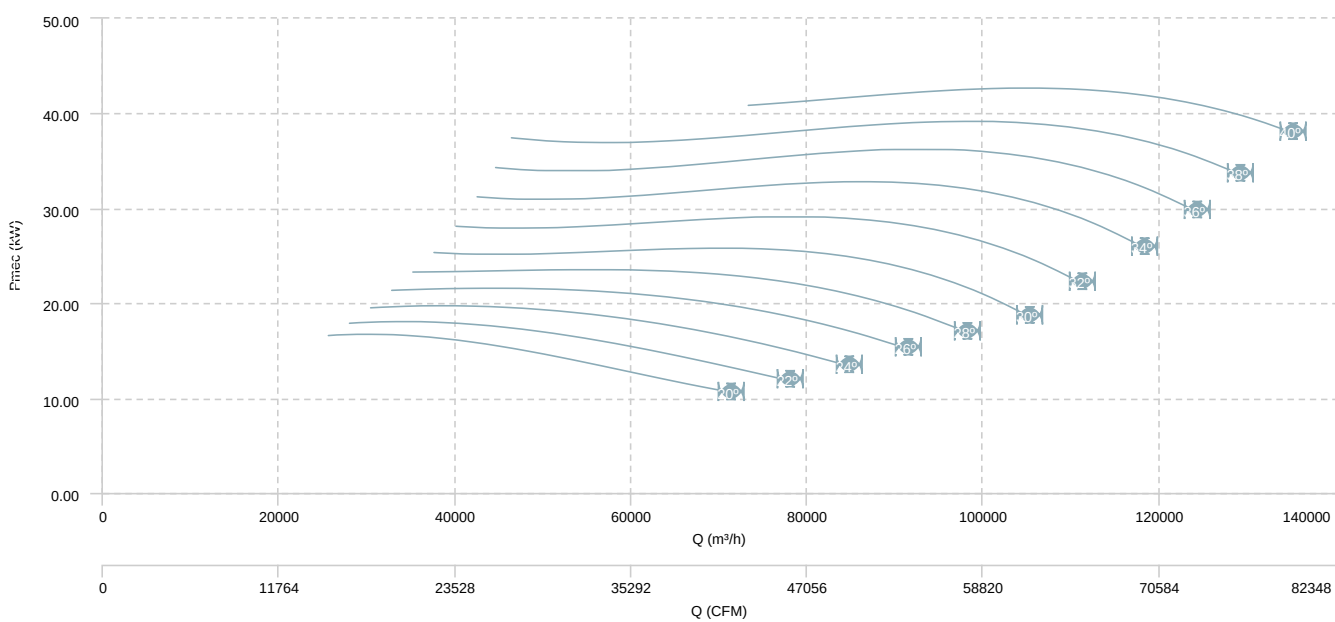


HMF 125 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (4 poles)**

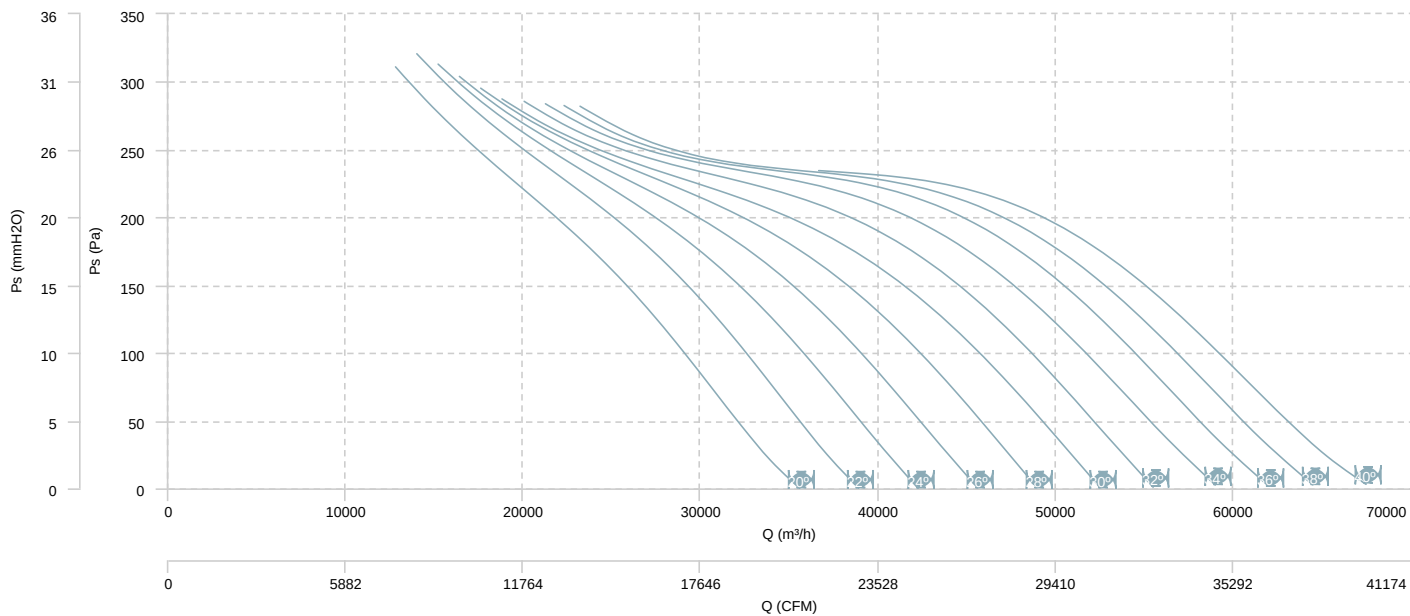


**AIR FLOW - MECHANICAL POWER (4 poles)**

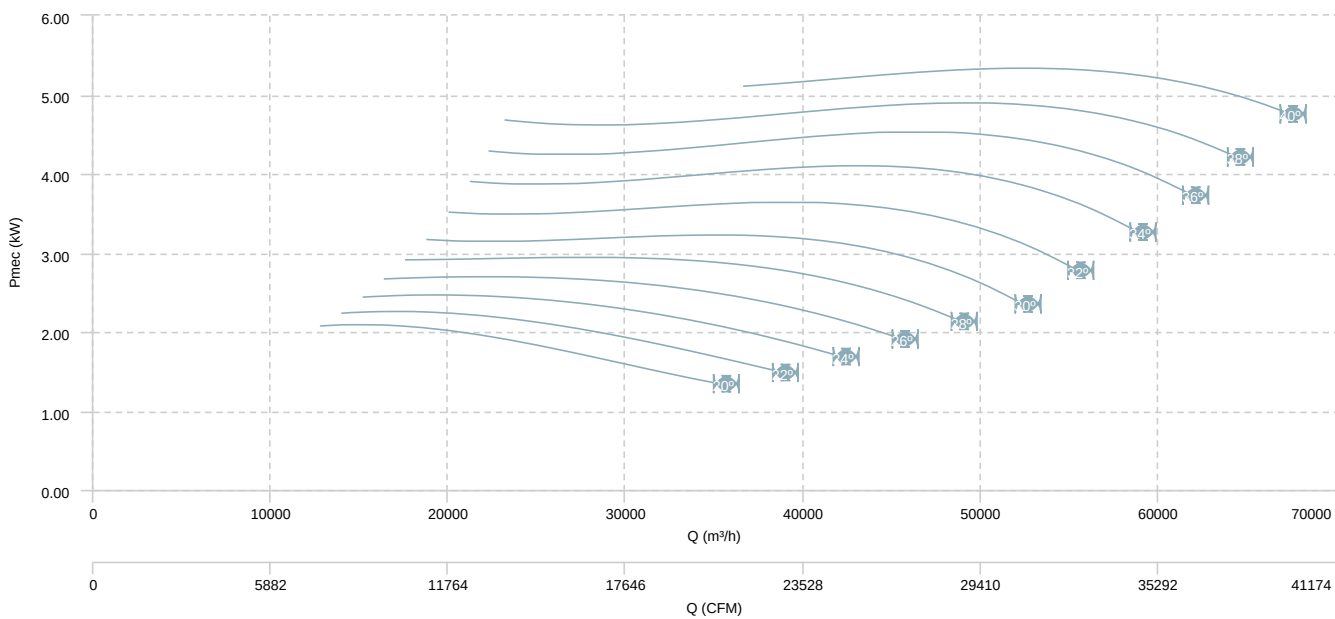


HMF 125 T4/T8 (A3:8) F400

**AIR FLOW - PRESSURE (8 poles)**



**AIR FLOW - MECHANICAL POWER (8 poles)**



## Sound data

### Sound / 2 poles

| Sound power Lw dB (A)        |       |       |        |        |        |         |         |         |         |       |
|------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                        |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 45 T2 (A8:6) F400 (20º)  | Inlet | 60    | 65     | 75     | 80     | 78      | 80      | 82      | 77      | 87    |
| HMF 45 T2 (A8:6) F400 (25º)  | Inlet | 61    | 66     | 73     | 77     | 78      | 80      | 82      | 77      | 87    |
| HMF 45 T2 (A8:6) F400 (30º)  | Inlet | 60    | 66     | 72     | 75     | 79      | 80      | 83      | 77      | 87    |
| HMF 45 T2 (A8:6) F400 (35º)  | Inlet | 60    | 65     | 72     | 82     | 81      | 80      | 83      | 78      | 88    |
| HMF 45 T2 (A8:6) F400 (40º)  | Inlet | 61    | 68     | 80     | 79     | 81      | 82      | 84      | 79      | 89    |
| HMF 45 T2 (A8:6) F400 (45º)  | Inlet | 64    | 70     | 78     | 81     | 83      | 85      | 85      | 80      | 90    |
| HMF 45 T2 (A8:9) F400 (20º)  | Inlet | 63    | 70     | 75     | 83     | 82      | 82      | 83      | 76      | 89    |
| HMF 45 T2 (A8:9) F400 (25º)  | Inlet | 63    | 68     | 75     | 81     | 81      | 82      | 84      | 78      | 89    |
| HMF 45 T2 (A8:9) F400 (30º)  | Inlet | 62    | 67     | 77     | 80     | 80      | 81      | 84      | 79      | 89    |
| HMF 45 T2 (A8:9) F400 (35º)  | Inlet | 62    | 66     | 74     | 78     | 80      | 81      | 86      | 78      | 89    |
| HMF 45 T2 (A8:9) F400 (40º)  | Inlet | 62    | 67     | 74     | 80     | 82      | 82      | 85      | 79      | 89    |
| HMF 45 T2 (A8:9) F400 (45º)  | Inlet | 65    | 68     | 81     | 82     | 84      | 84      | 86      | 80      | 91    |
| HMF 45 T2 (A8:12) F400 (20º) | Inlet | 63    | 66     | 76     | 78     | 81      | 82      | 83      | 78      | 88    |
| HMF 45 T2 (A8:12) F400 (25º) | Inlet | 62    | 66     | 74     | 78     | 80      | 83      | 84      | 78      | 88    |
| HMF 45 T2 (A8:12) F400 (30º) | Inlet | 61    | 66     | 73     | 78     | 80      | 84      | 86      | 78      | 89    |
| HMF 45 T2 (A8:12) F400 (35º) | Inlet | 62    | 64     | 74     | 77     | 78      | 81      | 85      | 79      | 88    |
| HMF 45 T2 (A8:12) F400 (40º) | Inlet | 61    | 63     | 73     | 81     | 81      | 81      | 84      | 80      | 89    |
| HMF 45 T2 (A8:12) F400 (45º) | Inlet | 64    | 69     | 76     | 82     | 83      | 82      | 85      | 80      | 90    |
| HMF 50 T2 (A8:6) F400 (20º)  | Inlet | 61    | 67     | 73     | 80     | 80      | 82      | 85      | 79      | 89    |
| HMF 50 T2 (A8:6) F400 (25º)  | Inlet | 61    | 68     | 73     | 79     | 81      | 82      | 85      | 80      | 89    |
| HMF 50 T2 (A8:6) F400 (30º)  | Inlet | 61    | 68     | 73     | 78     | 81      | 82      | 86      | 80      | 90    |
| HMF 50 T2 (A8:6) F400 (35º)  | Inlet | 62    | 69     | 74     | 83     | 83      | 82      | 86      | 81      | 90    |
| HMF 50 T2 (A8:6) F400 (40º)  | Inlet | 64    | 71     | 80     | 81     | 83      | 84      | 86      | 82      | 91    |
| HMF 50 T2 (A8:6) F400 (45º)  | Inlet | 67    | 74     | 79     | 84     | 85      | 87      | 88      | 83      | 93    |
| HMF 50 T2 (A8:9) F400 (20º)  | Inlet | 63    | 69     | 75     | 83     | 83      | 84      | 86      | 79      | 91    |
| HMF 50 T2 (A8:9) F400 (25º)  | Inlet | 65    | 68     | 77     | 82     | 82      | 83      | 86      | 81      | 91    |
| HMF 50 T2 (A8:9) F400 (30º)  | Inlet | 64    | 67     | 78     | 82     | 82      | 83      | 87      | 83      | 91    |
| HMF 50 T2 (A8:9) F400 (35º)  | Inlet | 63    | 66     | 75     | 81     | 83      | 83      | 87      | 82      | 91    |
| HMF 50 T2 (A8:9) F400 (40º)  | Inlet | 64    | 69     | 76     | 83     | 84      | 84      | 88      | 83      | 92    |
| HMF 50 T2 (A8:9) F400 (45º)  | Inlet | 68    | 70     | 81     | 85     | 86      | 86      | 89      | 84      | 94    |
| HMF 50 T2 (A8:12) F400 (20º) | Inlet | 64    | 68     | 76     | 80     | 84      | 85      | 87      | 82      | 91    |
| HMF 50 T2 (A8:12) F400 (25º) | Inlet | 63    | 69     | 75     | 80     | 83      | 85      | 88      | 82      | 92    |
| HMF 50 T2 (A8:12) F400 (30º) | Inlet | 62    | 69     | 74     | 79     | 83      | 86      | 89      | 82      | 92    |
| HMF 50 T2 (A8:12) F400 (35º) | Inlet | 65    | 65     | 77     | 80     | 82      | 82      | 87      | 83      | 91    |
| HMF 50 T2 (A8:12) F400 (40º) | Inlet | 64    | 65     | 76     | 82     | 84      | 83      | 87      | 84      | 91    |

| Sound power Lw dB (A)        |       |       |        |        |        |         |         |         |         |       |
|------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                        |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 50 T2 (A8:12) F400 (45º) | Inlet | 67    | 69     | 79     | 85     | 85      | 84      | 88      | 83      | 92    |
| HMF 56 T2 (A8:6) F400 (20º)  | Inlet | 58    | 65     | 70     | 79     | 82      | 85      | 87      | 81      | 91    |
| HMF 56 T2 (A8:6) F400 (25º)  | Inlet | 60    | 67     | 72     | 81     | 83      | 85      | 88      | 82      | 92    |
| HMF 56 T2 (A8:6) F400 (30º)  | Inlet | 62    | 69     | 74     | 83     | 84      | 85      | 89      | 84      | 93    |
| HMF 56 T2 (A8:6) F400 (35º)  | Inlet | 65    | 72     | 77     | 85     | 84      | 85      | 89      | 84      | 93    |
| HMF 56 T2 (A8:6) F400 (40º)  | Inlet | 69    | 73     | 81     | 83     | 85      | 86      | 88      | 83      | 93    |
| HMF 56 T2 (A8:6) F400 (45º)  | Inlet | 68    | 75     | 80     | 88     | 88      | 89      | 92      | 87      | 96    |
| HMF 56 T2 (A8:9) F400 (20º)  | Inlet | 64    | 68     | 76     | 83     | 84      | 86      | 89      | 83      | 93    |
| HMF 56 T2 (A8:9) F400 (25º)  | Inlet | 66    | 68     | 78     | 83     | 84      | 85      | 89      | 85      | 93    |
| HMF 56 T2 (A8:9) F400 (30º)  | Inlet | 67    | 67     | 79     | 84     | 84      | 84      | 89      | 87      | 93    |
| HMF 56 T2 (A8:9) F400 (35º)  | Inlet | 64    | 67     | 76     | 85     | 87      | 85      | 89      | 86      | 94    |
| HMF 56 T2 (A8:9) F400 (40º)  | Inlet | 66    | 71     | 78     | 87     | 87      | 86      | 90      | 86      | 95    |
| HMF 56 T2 (A8:9) F400 (45º)  | Inlet | 67    | 73     | 79     | 87     | 89      | 88      | 92      | 87      | 96    |
| HMF 56 T2 (A8:12) F400 (20º) | Inlet | 64    | 71     | 76     | 83     | 88      | 90      | 91      | 86      | 96    |
| HMF 56 T2 (A8:12) F400 (25º) | Inlet | 64    | 71     | 76     | 82     | 87      | 89      | 92      | 85      | 95    |
| HMF 56 T2 (A8:12) F400 (30º) | Inlet | 64    | 71     | 76     | 81     | 86      | 88      | 92      | 85      | 95    |
| HMF 56 T2 (A8:12) F400 (35º) | Inlet | 67    | 66     | 81     | 85     | 86      | 84      | 88      | 86      | 93    |
| HMF 56 T2 (A8:12) F400 (40º) | Inlet | 66    | 68     | 78     | 83     | 88      | 86      | 90      | 87      | 94    |
| HMF 56 T2 (A8:12) F400 (45º) | Inlet | 69    | 69     | 82     | 87     | 87      | 86      | 91      | 86      | 95    |

## Sound / 4 poles

| Sound power Lw dB (A)         |       |       |        |        |        |         |         |         |         |       |
|-------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                         |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 45 T4 (A5:6) F400 (20º)   | Inlet | 48    | 53     | 60     | 67     | 69      | 70      | 69      | 60      | 75    |
| HMF 45 T4 (A5:6) F400 (25º)   | Inlet | 49    | 55     | 62     | 67     | 69      | 70      | 70      | 61      | 75    |
| HMF 45 T4 (A5:6) F400 (27,5º) | Inlet | 49    | 57     | 64     | 67     | 69      | 69      | 71      | 61      | 76    |
| HMF 45 T4 (A5:6) F400 (30º)   | Inlet | 49    | 58     | 65     | 67     | 70      | 69      | 71      | 61      | 76    |
| HMF 45 T4 (A5:6) F400 (32,5º) | Inlet | 48    | 57     | 65     | 66     | 68      | 67      | 70      | 60      | 75    |
| HMF 45 T4 (A5:6) F400 (35º)   | Inlet | 46    | 57     | 65     | 65     | 67      | 66      | 69      | 60      | 74    |
| HMF 45 T4 (A5:6) F400 (37,5º) | Inlet | 47    | 57     | 65     | 66     | 68      | 67      | 70      | 60      | 75    |
| HMF 45 T4 (A5:6) F400 (40º)   | Inlet | 48    | 58     | 65     | 67     | 70      | 69      | 71      | 61      | 76    |
| HMF 45 T4 (A5:6) F400 (42,5º) | Inlet | 48    | 57     | 64     | 67     | 70      | 70      | 71      | 61      | 76    |
| HMF 45 T4 (A5:6) F400 (45º)   | Inlet | 50    | 57     | 63     | 67     | 72      | 72      | 72      | 61      | 77    |
| HMF 50 T4 (A5:6) F400 (20º)   | Inlet | 50    | 57     | 65     | 71     | 77      | 75      | 75      | 66      | 81    |
| HMF 50 T4 (A5:6) F400 (25º)   | Inlet | 48    | 55     | 63     | 69     | 73      | 72      | 73      | 64      | 79    |
| HMF 50 T4 (A5:6) F400 (27,5º) | Inlet | 45    | 54     | 61     | 67     | 70      | 69      | 71      | 61      | 76    |
| HMF 50 T4 (A5:6) F400 (30º)   | Inlet | 44    | 53     | 60     | 66     | 68      | 68      | 70      | 60      | 75    |

| Sound power Lw dB (A)         |       |       |        |        |        |         |         |         |         |       |
|-------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                         |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 50 T4 (A5:6) F400 (32,5°) | Inlet | 46    | 55     | 61     | 67     | 68      | 68      | 71      | 62      | 75    |
| HMF 50 T4 (A5:6) F400 (35°)   | Inlet | 48    | 57     | 63     | 68     | 68      | 69      | 72      | 64      | 76    |
| HMF 50 T4 (A5:6) F400 (37,5°) | Inlet | 49    | 58     | 65     | 69     | 70      | 70      | 74      | 66      | 78    |
| HMF 50 T4 (A5:6) F400 (40°)   | Inlet | 51    | 59     | 67     | 71     | 72      | 72      | 76      | 69      | 80    |
| HMF 50 T4 (A5:6) F400 (42,5°) | Inlet | 50    | 59     | 67     | 71     | 72      | 73      | 76      | 68      | 80    |
| HMF 50 T4 (A5:6) F400 (45°)   | Inlet | 50    | 58     | 67     | 70     | 73      | 74      | 76      | 68      | 80    |
| HMF 56 T4 (A5:6) F400 (20°)   | Inlet | 66    | 73     | 78     | 79     | 80      | 78      | 76      | 68      | 86    |
| HMF 56 T4 (A5:6) F400 (25°)   | Inlet | 53    | 62     | 67     | 73     | 75      | 75      | 76      | 67      | 82    |
| HMF 56 T4 (A5:6) F400 (30°)   | Inlet | 62    | 72     | 79     | 81     | 81      | 79      | 77      | 69      | 87    |
| HMF 56 T4 (A5:6) F400 (35°)   | Inlet | 50    | 62     | 67     | 73     | 74      | 75      | 76      | 68      | 81    |
| HMF 56 T4 (A5:6) F400 (40°)   | Inlet | 56    | 69     | 79     | 85     | 84      | 78      | 76      | 67      | 89    |
| HMF 56 T4 (A5:6) F400 (45°)   | Inlet | 60    | 73     | 88     | 94     | 91      | 80      | 76      | 67      | 96    |
| HMF 63 T4 (A5:6) F400 (20°)   | Inlet | 69    | 76     | 81     | 82     | 83      | 80      | 79      | 72      | 89    |
| HMF 63 T4 (A5:6) F400 (25°)   | Inlet | 54    | 63     | 68     | 73     | 77      | 76      | 76      | 70      | 83    |
| HMF 63 T4 (A5:6) F400 (30°)   | Inlet | 57    | 65     | 75     | 82     | 80      | 79      | 79      | 72      | 87    |
| HMF 63 T4 (A5:6) F400 (35°)   | Inlet | 53    | 65     | 70     | 74     | 78      | 77      | 79      | 72      | 84    |
| HMF 63 T4 (A5:6) F400 (40°)   | Inlet | 54    | 66     | 77     | 89     | 86      | 81      | 79      | 71      | 92    |
| HMF 63 T4 (A5:6) F400 (45°)   | Inlet | 55    | 66     | 82     | 100    | 92      | 84      | 79      | 71      | 100   |
| HMF 71 T4 (A5:6) F400 (20°)   | Inlet | 71    | 78     | 83     | 85     | 85      | 83      | 82      | 75      | 92    |
| HMF 71 T4 (A5:6) F400 (25°)   | Inlet | 58    | 68     | 74     | 78     | 81      | 82      | 82      | 73      | 88    |
| HMF 71 T4 (A5:6) F400 (30°)   | Inlet | 60    | 68     | 75     | 81     | 82      | 81      | 81      | 72      | 87    |
| HMF 71 T4 (A5:6) F400 (35°)   | Inlet | 53    | 65     | 70     | 75     | 78      | 79      | 80      | 71      | 84    |
| HMF 71 T4 (A5:6) F400 (40°)   | Inlet | 57    | 68     | 83     | 92     | 88      | 83      | 81      | 72      | 95    |
| HMF 71 T4 (A5:6) F400 (45°)   | Inlet | 61    | 70     | 92     | 105    | 96      | 87      | 83      | 72      | 105   |
| HMF 80 T4 (A5:6) F400 (20°)   | Inlet | 74    | 81     | 86     | 88     | 88      | 86      | 85      | 78      | 94    |
| HMF 80 T4 (A5:6) F400 (25°)   | Inlet | 61    | 68     | 74     | 79     | 81      | 81      | 82      | 74      | 88    |
| HMF 80 T4 (A5:6) F400 (30°)   | Inlet | 61    | 72     | 79     | 89     | 87      | 85      | 85      | 77      | 93    |
| HMF 80 T4 (A5:6) F400 (35°)   | Inlet | 58    | 70     | 76     | 84     | 89      | 87      | 87      | 78      | 94    |
| HMF 80 T4 (A5:6) F400 (40°)   | Inlet | 59    | 72     | 88     | 93     | 90      | 86      | 84      | 76      | 97    |
| HMF 80 T4 (A5:6) F400 (45°)   | Inlet | 60    | 74     | 97     | 100    | 91      | 86      | 82      | 75      | 102   |
| HMF 90 T4 (A3:4) F400 (20°)   | Inlet | 56    | 68     | 73     | 83     | 88      | 88      | 86      | 78      | 93    |
| HMF 90 T4 (A3:4) F400 (22°)   | Inlet | 60    | 69     | 74     | 83     | 87      | 87      | 85      | 77      | 92    |
| HMF 90 T4 (A3:4) F400 (24°)   | Inlet | 63    | 70     | 75     | 83     | 86      | 86      | 85      | 77      | 91    |
| HMF 90 T4 (A3:4) F400 (26°)   | Inlet | 64    | 71     | 77     | 83     | 85      | 85      | 84      | 76      | 91    |
| HMF 90 T4 (A3:4) F400 (28°)   | Inlet | 65    | 72     | 78     | 82     | 83      | 84      | 84      | 76      | 90    |
| HMF 90 T4 (A3:4) F400 (30°)   | Inlet | 66    | 73     | 79     | 82     | 82      | 83      | 83      | 75      | 89    |
| HMF 90 T4 (A3:4) F400 (32°)   | Inlet | 66    | 73     | 78     | 82     | 83      | 83      | 83      | 74      | 89    |
| HMF 90 T4 (A3:4) F400 (34°)   | Inlet | 65    | 72     | 78     | 81     | 83      | 84      | 82      | 74      | 89    |
| HMF 90 T4 (A3:4) F400 (36°)   | Inlet | 66    | 73     | 78     | 81     | 84      | 84      | 82      | 74      | 90    |

| Sound power Lw dB (A)        |       |       |        |        |        |         |         |         |         |       |
|------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                        |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 90 T4 (A3:4) F400 (38º)  | Inlet | 67    | 74     | 79     | 82     | 85      | 85      | 83      | 75      | 91    |
| HMF 90 T4 (A3:4) F400 (40º)  | Inlet | 68    | 75     | 80     | 82     | 87      | 85      | 84      | 77      | 91    |
| HMF 90 T4 (A3:4) F400 (42º)  | Inlet | 69    | 76     | 82     | 84     | 88      | 86      | 84      | 78      | 93    |
| HMF 90 T4 (A3:8) F400 (20º)  | Inlet | 69    | 81     | 90     | 91     | 93      | 88      | 88      | 78      | 98    |
| HMF 90 T4 (A3:8) F400 (22º)  | Inlet | 69    | 80     | 88     | 90     | 92      | 88      | 88      | 78      | 97    |
| HMF 90 T4 (A3:8) F400 (24º)  | Inlet | 69    | 79     | 86     | 89     | 91      | 88      | 88      | 78      | 96    |
| HMF 90 T4 (A3:8) F400 (26º)  | Inlet | 69    | 77     | 84     | 88     | 90      | 88      | 87      | 79      | 95    |
| HMF 90 T4 (A3:8) F400 (28º)  | Inlet | 69    | 76     | 82     | 87     | 89      | 88      | 87      | 79      | 94    |
| HMF 90 T4 (A3:8) F400 (30º)  | Inlet | 68    | 75     | 80     | 86     | 88      | 88      | 87      | 79      | 94    |
| HMF 90 T4 (A3:8) F400 (32º)  | Inlet | 67    | 74     | 80     | 85     | 87      | 88      | 86      | 78      | 93    |
| HMF 90 T4 (A3:8) F400 (34º)  | Inlet | 66    | 74     | 79     | 84     | 86      | 87      | 85      | 77      | 92    |
| HMF 90 T4 (A3:8) F400 (36º)  | Inlet | 67    | 74     | 80     | 83     | 86      | 87      | 85      | 77      | 92    |
| HMF 90 T4 (A3:8) F400 (38º)  | Inlet | 69    | 76     | 81     | 83     | 87      | 87      | 84      | 77      | 92    |
| HMF 90 T4 (A3:8) F400 (40º)  | Inlet | 70    | 77     | 83     | 84     | 88      | 87      | 84      | 77      | 93    |
| HMF 90 T4 (A3:8) F400 (42º)  | Inlet | 70    | 78     | 83     | 84     | 88      | 88      | 85      | 78      | 93    |
| HMF 100 T4 (A3:4) F400 (20º) | Inlet | 66    | 76     | 81     | 88     | 91      | 92      | 93      | 90      | 98    |
| HMF 100 T4 (A3:4) F400 (22º) | Inlet | 66    | 76     | 82     | 88     | 91      | 92      | 93      | 90      | 98    |
| HMF 100 T4 (A3:4) F400 (24º) | Inlet | 67    | 76     | 81     | 87     | 91      | 92      | 93      | 89      | 98    |
| HMF 100 T4 (A3:4) F400 (26º) | Inlet | 67    | 75     | 81     | 87     | 90      | 91      | 93      | 88      | 97    |
| HMF 100 T4 (A3:4) F400 (28º) | Inlet | 67    | 75     | 81     | 86     | 90      | 91      | 93      | 87      | 97    |
| HMF 100 T4 (A3:4) F400 (30º) | Inlet | 68    | 74     | 81     | 86     | 90      | 91      | 93      | 86      | 97    |
| HMF 100 T4 (A3:4) F400 (32º) | Inlet | 68    | 74     | 81     | 86     | 89      | 90      | 92      | 86      | 96    |
| HMF 100 T4 (A3:4) F400 (34º) | Inlet | 69    | 73     | 81     | 85     | 88      | 90      | 91      | 85      | 96    |
| HMF 100 T4 (A3:4) F400 (36º) | Inlet | 69    | 73     | 81     | 86     | 88      | 90      | 91      | 85      | 96    |
| HMF 100 T4 (A3:4) F400 (38º) | Inlet | 68    | 74     | 81     | 86     | 89      | 90      | 92      | 85      | 96    |
| HMF 100 T4 (A3:4) F400 (40º) | Inlet | 68    | 75     | 81     | 87     | 90      | 91      | 92      | 86      | 97    |
| HMF 100 T4 (A3:4) F400 (42º) | Inlet | 69    | 77     | 83     | 88     | 92      | 92      | 93      | 87      | 98    |
| HMF 100 T4 (A3:8) F400 (20º) | Inlet | 72    | 81     | 92     | 102    | 100     | 99      | 100     | 95      | 107   |
| HMF 100 T4 (A3:8) F400 (22º) | Inlet | 72    | 80     | 91     | 100    | 99      | 98      | 99      | 94      | 106   |
| HMF 100 T4 (A3:8) F400 (24º) | Inlet | 72    | 79     | 89     | 97     | 97      | 97      | 98      | 93      | 104   |
| HMF 100 T4 (A3:8) F400 (26º) | Inlet | 72    | 79     | 88     | 95     | 96      | 96      | 97      | 92      | 103   |
| HMF 100 T4 (A3:8) F400 (28º) | Inlet | 72    | 79     | 87     | 93     | 96      | 95      | 96      | 91      | 102   |
| HMF 100 T4 (A3:8) F400 (30º) | Inlet | 72    | 79     | 86     | 91     | 95      | 95      | 96      | 90      | 101   |
| HMF 100 T4 (A3:8) F400 (32º) | Inlet | 71    | 79     | 84     | 90     | 93      | 94      | 95      | 89      | 100   |
| HMF 100 T4 (A3:8) F400 (34º) | Inlet | 71    | 78     | 83     | 88     | 92      | 93      | 94      | 88      | 99    |
| HMF 100 T4 (A3:8) F400 (36º) | Inlet | 70    | 77     | 82     | 87     | 91      | 93      | 94      | 87      | 99    |
| HMF 100 T4 (A3:8) F400 (38º) | Inlet | 71    | 78     | 83     | 88     | 92      | 94      | 94      | 88      | 99    |
| HMF 100 T4 (A3:8) F400 (40º) | Inlet | 71    | 79     | 84     | 89     | 92      | 94      | 95      | 89      | 100   |
| HMF 100 T4 (A3:8) F400 (42º) | Inlet | 72    | 79     | 84     | 89     | 93      | 94      | 95      | 89      | 100   |



| Sound power Lw dB (A)        |       |       |        |        |        |         |         |         |         |       |
|------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                        |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 112 T4 (A3:4) F400 (20º) | Inlet | 66    | 78     | 83     | 90     | 94      | 94      | 96      | 92      | 101   |
| HMF 112 T4 (A3:4) F400 (22º) | Inlet | 68    | 79     | 84     | 90     | 94      | 95      | 96      | 92      | 102   |
| HMF 112 T4 (A3:4) F400 (24º) | Inlet | 69    | 78     | 83     | 90     | 93      | 94      | 96      | 91      | 101   |
| HMF 112 T4 (A3:4) F400 (26º) | Inlet | 70    | 78     | 83     | 89     | 93      | 94      | 95      | 90      | 100   |
| HMF 112 T4 (A3:4) F400 (28º) | Inlet | 71    | 78     | 83     | 89     | 92      | 93      | 95      | 89      | 99    |
| HMF 112 T4 (A3:4) F400 (30º) | Inlet | 71    | 78     | 83     | 88     | 92      | 93      | 94      | 88      | 99    |
| HMF 112 T4 (A3:4) F400 (32º) | Inlet | 70    | 77     | 82     | 88     | 91      | 92      | 94      | 87      | 98    |
| HMF 112 T4 (A3:4) F400 (34º) | Inlet | 70    | 76     | 82     | 87     | 90      | 92      | 93      | 86      | 98    |
| HMF 112 T4 (A3:4) F400 (36º) | Inlet | 71    | 76     | 83     | 87     | 90      | 92      | 93      | 86      | 98    |
| HMF 112 T4 (A3:4) F400 (38º) | Inlet | 71    | 77     | 83     | 88     | 91      | 92      | 93      | 87      | 98    |
| HMF 112 T4 (A3:4) F400 (40º) | Inlet | 72    | 79     | 84     | 89     | 91      | 93      | 94      | 87      | 99    |
| HMF 112 T4 (A3:4) F400 (42º) | Inlet | 72    | 79     | 84     | 89     | 92      | 94      | 94      | 88      | 99    |
| HMF 112 T4 (A3:8) F400 (20º) | Inlet | 73    | 82     | 92     | 101    | 101     | 103     | 103     | 97      | 109   |
| HMF 112 T4 (A3:8) F400 (22º) | Inlet | 73    | 81     | 91     | 99     | 100     | 102     | 102     | 96      | 107   |
| HMF 112 T4 (A3:8) F400 (24º) | Inlet | 73    | 81     | 90     | 97     | 99      | 101     | 101     | 95      | 106   |
| HMF 112 T4 (A3:8) F400 (26º) | Inlet | 74    | 81     | 89     | 96     | 98      | 100     | 100     | 94      | 106   |
| HMF 112 T4 (A3:8) F400 (28º) | Inlet | 74    | 81     | 88     | 94     | 98      | 99      | 99      | 94      | 105   |
| HMF 112 T4 (A3:8) F400 (30º) | Inlet | 74    | 80     | 87     | 93     | 97      | 99      | 99      | 93      | 104   |
| HMF 112 T4 (A3:8) F400 (32º) | Inlet | 74    | 81     | 86     | 91     | 96      | 97      | 97      | 91      | 103   |
| HMF 112 T4 (A3:8) F400 (34º) | Inlet | 73    | 80     | 85     | 90     | 94      | 96      | 96      | 89      | 101   |
| HMF 112 T4 (A3:8) F400 (36º) | Inlet | 73    | 80     | 85     | 90     | 93      | 95      | 95      | 89      | 101   |
| HMF 112 T4 (A3:8) F400 (38º) | Inlet | 73    | 80     | 85     | 90     | 94      | 96      | 95      | 89      | 101   |
| HMF 112 T4 (A3:8) F400 (40º) | Inlet | 74    | 81     | 86     | 90     | 94      | 96      | 95      | 90      | 102   |
| HMF 112 T4 (A3:8) F400 (42º) | Inlet | 73    | 80     | 85     | 91     | 94      | 96      | 95      | 89      | 101   |
| HMF 125 T4 (A3:4) F400 (20º) | Inlet | 72    | 85     | 90     | 98     | 102     | 102     | 104     | 101     | 109   |
| HMF 125 T4 (A3:4) F400 (22º) | Inlet | 75    | 86     | 91     | 98     | 102     | 103     | 105     | 101     | 109   |
| HMF 125 T4 (A3:4) F400 (24º) | Inlet | 75    | 85     | 90     | 96     | 100     | 101     | 103     | 98      | 107   |
| HMF 125 T4 (A3:4) F400 (26º) | Inlet | 76    | 84     | 89     | 94     | 98      | 99      | 101     | 96      | 106   |
| HMF 125 T4 (A3:4) F400 (28º) | Inlet | 75    | 82     | 87     | 93     | 96      | 98      | 99      | 93      | 104   |
| HMF 125 T4 (A3:4) F400 (30º) | Inlet | 74    | 81     | 86     | 91     | 95      | 96      | 97      | 91      | 102   |
| HMF 125 T4 (A3:4) F400 (32º) | Inlet | 74    | 81     | 86     | 90     | 94      | 96      | 96      | 90      | 102   |
| HMF 125 T4 (A3:4) F400 (34º) | Inlet | 73    | 80     | 85     | 90     | 93      | 95      | 96      | 88      | 101   |
| HMF 125 T4 (A3:4) F400 (36º) | Inlet | 74    | 81     | 86     | 90     | 93      | 95      | 96      | 88      | 101   |
| HMF 125 T4 (A3:4) F400 (38º) | Inlet | 74    | 81     | 86     | 91     | 93      | 95      | 96      | 89      | 101   |
| HMF 125 T4 (A3:4) F400 (40º) | Inlet | 75    | 82     | 87     | 91     | 93      | 96      | 96      | 89      | 102   |
| HMF 125 T4 (A3:4) F400 (42º) | Inlet | 75    | 82     | 87     | 92     | 94      | 96      | 96      | 90      | 102   |
| HMF 125 T4 (A3:8) F400 (20º) | Inlet | 78    | 86     | 93     | 103    | 108     | 111     | 110     | 105     | 115   |
| HMF 125 T4 (A3:8) F400 (22º) | Inlet | 79    | 86     | 93     | 102    | 107     | 110     | 109     | 104     | 114   |
| HMF 125 T4 (A3:8) F400 (24º) | Inlet | 78    | 85     | 92     | 100    | 106     | 108     | 108     | 102     | 113   |

| Sound power Lw dB (A)        |       |       |        |        |        |         |         |         |         |       |
|------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                        |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 125 T4 (A3:8) F400 (26º) | Inlet | 78    | 85     | 91     | 98     | 104     | 106     | 106     | 100     | 111   |
| HMF 125 T4 (A3:8) F400 (28º) | Inlet | 78    | 84     | 91     | 97     | 102     | 105     | 105     | 98      | 110   |
| HMF 125 T4 (A3:8) F400 (30º) | Inlet | 77    | 83     | 90     | 96     | 101     | 103     | 104     | 97      | 108   |
| HMF 125 T4 (A3:8) F400 (32º) | Inlet | 77    | 83     | 89     | 95     | 99      | 102     | 102     | 94      | 107   |
| HMF 125 T4 (A3:8) F400 (34º) | Inlet | 77    | 83     | 89     | 94     | 97      | 99      | 100     | 92      | 105   |
| HMF 125 T4 (A3:8) F400 (36º) | Inlet | 77    | 83     | 89     | 93     | 96      | 98      | 98      | 91      | 104   |
| HMF 125 T4 (A3:8) F400 (38º) | Inlet | 76    | 83     | 88     | 93     | 96      | 98      | 97      | 91      | 104   |
| HMF 125 T4 (A3:8) F400 (40º) | Inlet | 76    | 83     | 88     | 93     | 96      | 98      | 97      | 90      | 103   |
| HMF 125 T4 (A3:8) F400 (42º) | Inlet | 76    | 83     | 88     | 93     | 96      | 98      | 96      | 90      | 103   |

## Sound / 6 poles

| Sound power Lw dB (A)         |       |       |        |        |        |         |         |         |         |       |
|-------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                         |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 45 T6 (A5:6) F400 (25º)   | Inlet | 37    | 42     | 49     | 55     | 54      | 55      | 57      | 50      | 62    |
| HMF 45 T6 (A5:6) F400 (27,5º) | Inlet | 38    | 43     | 50     | 55     | 55      | 56      | 58      | 50      | 63    |
| HMF 45 T6 (A5:6) F400 (30º)   | Inlet | 40    | 44     | 52     | 55     | 57      | 58      | 59      | 50      | 64    |
| HMF 45 T6 (A5:6) F400 (32,5º) | Inlet | 40    | 44     | 52     | 55     | 58      | 58      | 60      | 50      | 65    |
| HMF 45 T6 (A5:6) F400 (35º)   | Inlet | 41    | 45     | 53     | 54     | 59      | 59      | 60      | 50      | 65    |
| HMF 45 T6 (A5:6) F400 (37,5º) | Inlet | 42    | 46     | 54     | 56     | 60      | 60      | 61      | 52      | 66    |
| HMF 45 T6 (A5:6) F400 (40º)   | Inlet | 44    | 47     | 56     | 57     | 61      | 61      | 63      | 54      | 67    |
| HMF 45 T6 (A5:6) F400 (42,5º) | Inlet | 43    | 47     | 55     | 58     | 62      | 62      | 63      | 55      | 68    |
| HMF 45 T6 (A5:6) F400 (45º)   | Inlet | 43    | 47     | 55     | 58     | 62      | 62      | 63      | 55      | 68    |
| HMF 50 T6 (A5:6) F400 (25º)   | Inlet | 36    | 43     | 48     | 53     | 55      | 58      | 60      | 52      | 64    |
| HMF 50 T6 (A5:6) F400 (27,5º) | Inlet | 37    | 43     | 49     | 53     | 56      | 58      | 61      | 52      | 64    |
| HMF 50 T6 (A5:6) F400 (30º)   | Inlet | 39    | 44     | 51     | 55     | 58      | 59      | 62      | 53      | 66    |
| HMF 50 T6 (A5:6) F400 (32,5º) | Inlet | 40    | 45     | 52     | 57     | 59      | 60      | 63      | 54      | 67    |
| HMF 50 T6 (A5:6) F400 (35º)   | Inlet | 40    | 45     | 52     | 59     | 61      | 62      | 64      | 55      | 68    |
| HMF 50 T6 (A5:6) F400 (37,5º) | Inlet | 41    | 48     | 53     | 59     | 61      | 62      | 64      | 55      | 68    |
| HMF 50 T6 (A5:6) F400 (40º)   | Inlet | 41    | 48     | 53     | 59     | 61      | 62      | 64      | 55      | 68    |
| HMF 50 T6 (A5:6) F400 (42,5º) | Inlet | 43    | 50     | 55     | 62     | 63      | 64      | 66      | 58      | 71    |
| HMF 50 T6 (A5:6) F400 (45º)   | Inlet | 44    | 51     | 56     | 64     | 65      | 65      | 67      | 59      | 72    |
| HMF 56 T6 (A5:6) F400 (20º)   | Inlet | 63    | 70     | 75     | 76     | 77      | 75      | 73      | 65      | 82    |
| HMF 56 T6 (A5:6) F400 (25º)   | Inlet | 50    | 59     | 64     | 70     | 72      | 72      | 73      | 64      | 78    |
| HMF 56 T6 (A5:6) F400 (30º)   | Inlet | 58    | 68     | 75     | 77     | 78      | 76      | 74      | 66      | 83    |
| HMF 56 T6 (A5:6) F400 (35º)   | Inlet | 47    | 58     | 63     | 69     | 70      | 71      | 72      | 64      | 78    |
| HMF 56 T6 (A5:6) F400 (40º)   | Inlet | 53    | 66     | 76     | 81     | 81      | 75      | 73      | 64      | 85    |
| HMF 56 T6 (A5:6) F400 (45º)   | Inlet | 57    | 69     | 84     | 90     | 88      | 77      | 73      | 63      | 93    |

| Sound power Lw dB (A)       |       |       |        |        |        |         |         |         |         |       |
|-----------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                       |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 63 T6 (A5:6) F400 (20°) | Inlet | 66    | 73     | 78     | 79     | 80      | 77      | 76      | 69      | 85    |
| HMF 63 T6 (A5:6) F400 (25°) | Inlet | 51    | 60     | 65     | 70     | 74      | 73      | 73      | 67      | 79    |
| HMF 63 T6 (A5:6) F400 (30°) | Inlet | 54    | 62     | 72     | 79     | 77      | 76      | 76      | 69      | 83    |
| HMF 63 T6 (A5:6) F400 (35°) | Inlet | 50    | 62     | 67     | 71     | 75      | 74      | 76      | 69      | 81    |
| HMF 63 T6 (A5:6) F400 (40°) | Inlet | 51    | 63     | 74     | 86     | 83      | 78      | 76      | 68      | 88    |
| HMF 63 T6 (A5:6) F400 (45°) | Inlet | 52    | 63     | 79     | 96     | 88      | 81      | 76      | 67      | 97    |
| HMF 71 T6 (A5:6) F400 (20°) | Inlet | 68    | 75     | 80     | 82     | 82      | 80      | 79      | 72      | 88    |
| HMF 71 T6 (A5:6) F400 (25°) | Inlet | 55    | 65     | 71     | 75     | 78      | 79      | 79      | 70      | 84    |
| HMF 71 T6 (A5:6) F400 (30°) | Inlet | 57    | 65     | 71     | 77     | 78      | 78      | 77      | 68      | 84    |
| HMF 71 T6 (A5:6) F400 (35°) | Inlet | 49    | 61     | 66     | 71     | 74      | 75      | 76      | 67      | 81    |
| HMF 71 T6 (A5:6) F400 (40°) | Inlet | 54    | 64     | 79     | 89     | 85      | 80      | 78      | 68      | 91    |
| HMF 71 T6 (A5:6) F400 (45°) | Inlet | 57    | 66     | 88     | 101    | 92      | 83      | 79      | 69      | 102   |
| HMF 80 T6 (A5:6) F400 (20°) | Inlet | 71    | 78     | 83     | 85     | 85      | 83      | 82      | 75      | 91    |
| HMF 80 T6 (A5:6) F400 (25°) | Inlet | 58    | 65     | 71     | 76     | 78      | 78      | 79      | 71      | 84    |
| HMF 80 T6 (A5:6) F400 (30°) | Inlet | 58    | 69     | 76     | 86     | 84      | 82      | 82      | 74      | 90    |
| HMF 80 T6 (A5:6) F400 (35°) | Inlet | 55    | 67     | 73     | 81     | 86      | 84      | 84      | 75      | 90    |
| HMF 80 T6 (A5:6) F400 (40°) | Inlet | 56    | 69     | 85     | 90     | 87      | 83      | 81      | 73      | 93    |
| HMF 80 T6 (A5:6) F400 (45°) | Inlet | 56    | 70     | 93     | 96     | 87      | 82      | 79      | 71      | 98    |
| HMF 90 T6 (A3:4) F400 (20°) | Inlet | 47    | 58     | 64     | 74     | 78      | 78      | 77      | 68      | 83    |
| HMF 90 T6 (A3:4) F400 (22°) | Inlet | 51    | 59     | 65     | 74     | 77      | 77      | 76      | 68      | 83    |
| HMF 90 T6 (A3:4) F400 (24°) | Inlet | 53    | 60     | 66     | 73     | 76      | 76      | 75      | 67      | 82    |
| HMF 90 T6 (A3:4) F400 (26°) | Inlet | 55    | 62     | 67     | 73     | 75      | 75      | 75      | 67      | 81    |
| HMF 90 T6 (A3:4) F400 (28°) | Inlet | 56    | 63     | 68     | 73     | 74      | 74      | 74      | 66      | 81    |
| HMF 90 T6 (A3:4) F400 (30°) | Inlet | 57    | 64     | 69     | 73     | 73      | 73      | 74      | 66      | 80    |
| HMF 90 T6 (A3:4) F400 (32°) | Inlet | 56    | 63     | 69     | 72     | 73      | 74      | 73      | 65      | 80    |
| HMF 90 T6 (A3:4) F400 (34°) | Inlet | 56    | 63     | 68     | 72     | 74      | 75      | 73      | 64      | 80    |
| HMF 90 T6 (A3:4) F400 (36°) | Inlet | 56    | 63     | 69     | 72     | 75      | 75      | 73      | 65      | 80    |
| HMF 90 T6 (A3:4) F400 (38°) | Inlet | 57    | 64     | 70     | 72     | 76      | 75      | 74      | 66      | 81    |
| HMF 90 T6 (A3:4) F400 (40°) | Inlet | 58    | 66     | 71     | 73     | 77      | 75      | 74      | 67      | 82    |
| HMF 90 T6 (A3:4) F400 (42°) | Inlet | 60    | 67     | 72     | 74     | 78      | 77      | 75      | 68      | 83    |
| HMF 90 T6 (A3:8) F400 (20°) | Inlet | 59    | 72     | 81     | 82     | 84      | 78      | 79      | 68      | 88    |
| HMF 90 T6 (A3:8) F400 (22°) | Inlet | 60    | 70     | 79     | 81     | 83      | 78      | 78      | 69      | 87    |
| HMF 90 T6 (A3:8) F400 (24°) | Inlet | 60    | 69     | 77     | 80     | 82      | 78      | 78      | 69      | 86    |
| HMF 90 T6 (A3:8) F400 (26°) | Inlet | 60    | 68     | 75     | 79     | 81      | 79      | 78      | 69      | 86    |
| HMF 90 T6 (A3:8) F400 (28°) | Inlet | 60    | 67     | 73     | 78     | 80      | 79      | 78      | 69      | 85    |
| HMF 90 T6 (A3:8) F400 (30°) | Inlet | 58    | 65     | 71     | 77     | 79      | 79      | 78      | 70      | 84    |
| HMF 90 T6 (A3:8) F400 (32°) | Inlet | 58    | 65     | 70     | 75     | 78      | 78      | 77      | 69      | 84    |
| HMF 90 T6 (A3:8) F400 (34°) | Inlet | 57    | 64     | 70     | 74     | 77      | 78      | 76      | 68      | 83    |
| HMF 90 T6 (A3:8) F400 (36°) | Inlet | 58    | 65     | 70     | 74     | 77      | 78      | 75      | 67      | 83    |

| Sound power Lw dB (A)        |       |       |        |        |        |         |         |         |         |       |
|------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                        |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 90 T6 (A3:8) F400 (38º)  | Inlet | 59    | 66     | 72     | 74     | 78      | 78      | 75      | 68      | 83    |
| HMF 90 T6 (A3:8) F400 (40º)  | Inlet | 61    | 68     | 73     | 74     | 78      | 78      | 75      | 68      | 83    |
| HMF 90 T6 (A3:8) F400 (42º)  | Inlet | 61    | 68     | 74     | 75     | 79      | 79      | 75      | 68      | 84    |
| HMF 100 T6 (A3:4) F400 (20º) | Inlet | 56    | 67     | 72     | 78     | 82      | 83      | 84      | 81      | 89    |
| HMF 100 T6 (A3:4) F400 (22º) | Inlet | 57    | 67     | 72     | 78     | 82      | 83      | 84      | 80      | 89    |
| HMF 100 T6 (A3:4) F400 (24º) | Inlet | 57    | 66     | 72     | 78     | 82      | 82      | 84      | 79      | 89    |
| HMF 100 T6 (A3:4) F400 (26º) | Inlet | 57    | 66     | 71     | 77     | 81      | 82      | 83      | 78      | 88    |
| HMF 100 T6 (A3:4) F400 (28º) | Inlet | 58    | 65     | 71     | 77     | 81      | 81      | 83      | 78      | 88    |
| HMF 100 T6 (A3:4) F400 (30º) | Inlet | 58    | 65     | 71     | 77     | 80      | 81      | 83      | 77      | 87    |
| HMF 100 T6 (A3:4) F400 (32º) | Inlet | 59    | 64     | 71     | 76     | 79      | 81      | 83      | 76      | 87    |
| HMF 100 T6 (A3:4) F400 (34º) | Inlet | 59    | 63     | 71     | 76     | 79      | 80      | 82      | 76      | 86    |
| HMF 100 T6 (A3:4) F400 (36º) | Inlet | 59    | 64     | 71     | 76     | 79      | 80      | 82      | 76      | 86    |
| HMF 100 T6 (A3:4) F400 (38º) | Inlet | 59    | 65     | 72     | 77     | 80      | 81      | 82      | 76      | 87    |
| HMF 100 T6 (A3:4) F400 (40º) | Inlet | 59    | 66     | 72     | 77     | 81      | 81      | 83      | 76      | 87    |
| HMF 100 T6 (A3:4) F400 (42º) | Inlet | 60    | 67     | 73     | 79     | 82      | 82      | 83      | 78      | 89    |
| HMF 100 T6 (A3:8) F400 (20º) | Inlet | 63    | 71     | 83     | 92     | 91      | 89      | 90      | 86      | 97    |
| HMF 100 T6 (A3:8) F400 (22º) | Inlet | 63    | 71     | 82     | 90     | 89      | 88      | 89      | 85      | 96    |
| HMF 100 T6 (A3:8) F400 (24º) | Inlet | 62    | 70     | 80     | 88     | 88      | 87      | 88      | 83      | 94    |
| HMF 100 T6 (A3:8) F400 (26º) | Inlet | 62    | 70     | 79     | 86     | 87      | 87      | 87      | 82      | 93    |
| HMF 100 T6 (A3:8) F400 (28º) | Inlet | 62    | 70     | 78     | 84     | 86      | 86      | 87      | 81      | 92    |
| HMF 100 T6 (A3:8) F400 (30º) | Inlet | 62    | 69     | 77     | 82     | 85      | 86      | 86      | 80      | 92    |
| HMF 100 T6 (A3:8) F400 (32º) | Inlet | 62    | 69     | 75     | 80     | 84      | 85      | 85      | 79      | 90    |
| HMF 100 T6 (A3:8) F400 (34º) | Inlet | 61    | 68     | 73     | 78     | 82      | 84      | 85      | 78      | 89    |
| HMF 100 T6 (A3:8) F400 (36º) | Inlet | 61    | 68     | 73     | 78     | 82      | 84      | 84      | 78      | 89    |
| HMF 100 T6 (A3:8) F400 (38º) | Inlet | 61    | 68     | 73     | 79     | 82      | 84      | 85      | 79      | 90    |
| HMF 100 T6 (A3:8) F400 (40º) | Inlet | 62    | 69     | 74     | 79     | 83      | 85      | 85      | 79      | 90    |
| HMF 100 T6 (A3:8) F400 (42º) | Inlet | 62    | 69     | 74     | 80     | 83      | 85      | 85      | 79      | 90    |
| HMF 112 T6 (A3:4) F400 (20º) | Inlet | 56    | 68     | 73     | 80     | 84      | 85      | 87      | 82      | 91    |
| HMF 112 T6 (A3:4) F400 (22º) | Inlet | 58    | 69     | 74     | 81     | 85      | 85      | 87      | 82      | 92    |
| HMF 112 T6 (A3:4) F400 (24º) | Inlet | 59    | 69     | 74     | 80     | 84      | 85      | 86      | 81      | 91    |
| HMF 112 T6 (A3:4) F400 (26º) | Inlet | 60    | 69     | 74     | 80     | 83      | 84      | 86      | 80      | 90    |
| HMF 112 T6 (A3:4) F400 (28º) | Inlet | 61    | 69     | 74     | 79     | 83      | 84      | 85      | 79      | 90    |
| HMF 112 T6 (A3:4) F400 (30º) | Inlet | 61    | 68     | 73     | 79     | 82      | 83      | 85      | 78      | 89    |
| HMF 112 T6 (A3:4) F400 (32º) | Inlet | 61    | 67     | 73     | 78     | 81      | 83      | 84      | 78      | 89    |
| HMF 112 T6 (A3:4) F400 (34º) | Inlet | 61    | 66     | 73     | 78     | 81      | 82      | 84      | 77      | 88    |
| HMF 112 T6 (A3:4) F400 (36º) | Inlet | 61    | 67     | 73     | 78     | 81      | 82      | 84      | 77      | 88    |
| HMF 112 T6 (A3:4) F400 (38º) | Inlet | 62    | 68     | 74     | 78     | 81      | 83      | 84      | 77      | 89    |
| HMF 112 T6 (A3:4) F400 (40º) | Inlet | 63    | 69     | 75     | 79     | 82      | 84      | 84      | 78      | 89    |
| HMF 112 T6 (A3:4) F400 (42º) | Inlet | 63    | 70     | 75     | 80     | 83      | 84      | 85      | 78      | 90    |

| Sound power Lw dB (A)        |       |       |        |        |        |         |         |         |         |       |
|------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                        |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 112 T6 (A3:8) F400 (20º) | Inlet | 64    | 72     | 82     | 91     | 91      | 93      | 93      | 88      | 99    |
| HMF 112 T6 (A3:8) F400 (22º) | Inlet | 64    | 72     | 81     | 89     | 90      | 92      | 92      | 87      | 98    |
| HMF 112 T6 (A3:8) F400 (24º) | Inlet | 64    | 71     | 80     | 88     | 90      | 91      | 91      | 86      | 96    |
| HMF 112 T6 (A3:8) F400 (26º) | Inlet | 64    | 71     | 79     | 86     | 89      | 90      | 90      | 85      | 96    |
| HMF 112 T6 (A3:8) F400 (28º) | Inlet | 64    | 71     | 79     | 85     | 89      | 90      | 90      | 84      | 95    |
| HMF 112 T6 (A3:8) F400 (30º) | Inlet | 65    | 71     | 78     | 83     | 88      | 89      | 89      | 84      | 94    |
| HMF 112 T6 (A3:8) F400 (32º) | Inlet | 64    | 71     | 77     | 82     | 86      | 88      | 88      | 82      | 93    |
| HMF 112 T6 (A3:8) F400 (34º) | Inlet | 64    | 71     | 76     | 81     | 84      | 86      | 87      | 80      | 92    |
| HMF 112 T6 (A3:8) F400 (36º) | Inlet | 63    | 70     | 75     | 80     | 84      | 86      | 86      | 79      | 91    |
| HMF 112 T6 (A3:8) F400 (38º) | Inlet | 64    | 71     | 76     | 81     | 84      | 86      | 86      | 80      | 91    |
| HMF 112 T6 (A3:8) F400 (40º) | Inlet | 64    | 71     | 76     | 81     | 85      | 87      | 86      | 80      | 92    |
| HMF 112 T6 (A3:8) F400 (42º) | Inlet | 64    | 71     | 76     | 81     | 85      | 86      | 86      | 79      | 91    |
| HMF 125 T6 (A3:4) F400 (20º) | Inlet | 63    | 76     | 81     | 89     | 92      | 92      | 94      | 91      | 99    |
| HMF 125 T6 (A3:4) F400 (22º) | Inlet | 65    | 77     | 82     | 89     | 92      | 93      | 95      | 91      | 99    |
| HMF 125 T6 (A3:4) F400 (24º) | Inlet | 66    | 75     | 80     | 87     | 90      | 91      | 93      | 88      | 98    |
| HMF 125 T6 (A3:4) F400 (26º) | Inlet | 66    | 74     | 79     | 85     | 89      | 90      | 91      | 86      | 96    |
| HMF 125 T6 (A3:4) F400 (28º) | Inlet | 66    | 73     | 78     | 83     | 87      | 88      | 89      | 84      | 94    |
| HMF 125 T6 (A3:4) F400 (30º) | Inlet | 65    | 72     | 77     | 81     | 85      | 87      | 88      | 81      | 92    |
| HMF 125 T6 (A3:4) F400 (32º) | Inlet | 64    | 71     | 76     | 81     | 84      | 86      | 87      | 80      | 92    |
| HMF 125 T6 (A3:4) F400 (34º) | Inlet | 64    | 71     | 76     | 81     | 84      | 85      | 86      | 79      | 91    |
| HMF 125 T6 (A3:4) F400 (36º) | Inlet | 64    | 71     | 76     | 81     | 83      | 85      | 86      | 79      | 91    |
| HMF 125 T6 (A3:4) F400 (38º) | Inlet | 65    | 72     | 77     | 81     | 84      | 86      | 86      | 79      | 91    |
| HMF 125 T6 (A3:4) F400 (40º) | Inlet | 65    | 72     | 77     | 82     | 84      | 86      | 87      | 80      | 92    |
| HMF 125 T6 (A3:4) F400 (42º) | Inlet | 66    | 73     | 78     | 82     | 85      | 87      | 87      | 81      | 92    |
| HMF 125 T6 (A3:8) F400 (20º) | Inlet | 69    | 77     | 84     | 93     | 98      | 101     | 101     | 95      | 106   |
| HMF 125 T6 (A3:8) F400 (22º) | Inlet | 69    | 77     | 84     | 92     | 97      | 100     | 99      | 94      | 105   |
| HMF 125 T6 (A3:8) F400 (24º) | Inlet | 69    | 76     | 83     | 90     | 96      | 98      | 98      | 92      | 103   |
| HMF 125 T6 (A3:8) F400 (26º) | Inlet | 69    | 75     | 82     | 89     | 94      | 97      | 96      | 90      | 102   |
| HMF 125 T6 (A3:8) F400 (28º) | Inlet | 68    | 74     | 81     | 87     | 93      | 95      | 95      | 89      | 100   |
| HMF 125 T6 (A3:8) F400 (30º) | Inlet | 68    | 74     | 80     | 86     | 91      | 93      | 94      | 87      | 98    |
| HMF 125 T6 (A3:8) F400 (32º) | Inlet | 68    | 74     | 80     | 85     | 90      | 92      | 92      | 85      | 97    |
| HMF 125 T6 (A3:8) F400 (34º) | Inlet | 68    | 74     | 80     | 84     | 88      | 90      | 90      | 83      | 95    |
| HMF 125 T6 (A3:8) F400 (36º) | Inlet | 67    | 74     | 79     | 84     | 87      | 89      | 89      | 82      | 94    |
| HMF 125 T6 (A3:8) F400 (38º) | Inlet | 67    | 74     | 79     | 84     | 87      | 89      | 88      | 81      | 94    |
| HMF 125 T6 (A3:8) F400 (40º) | Inlet | 67    | 74     | 79     | 83     | 87      | 89      | 87      | 81      | 93    |
| HMF 125 T6 (A3:8) F400 (42º) | Inlet | 67    | 74     | 79     | 84     | 87      | 88      | 87      | 81      | 93    |

## Sound / 2/4 poles

| Sound power Lw dB (A)               |       |       |        |        |        |         |         |         |         |       |
|-------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 45 T2/T4 (A8:6) F400 (4p - 20°) | Inlet | 44    | 49     | 59     | 64     | 62      | 64      | 66      | 61      | 71    |
| HMF 45 T2/T4 (A8:6) F400 (4p - 25°) | Inlet | 45    | 50     | 57     | 61     | 62      | 64      | 67      | 61      | 71    |
| HMF 45 T2/T4 (A8:6) F400 (4p - 30°) | Inlet | 44    | 50     | 56     | 59     | 63      | 64      | 67      | 61      | 71    |
| HMF 45 T2/T4 (A8:6) F400 (4p - 35°) | Inlet | 44    | 49     | 56     | 66     | 66      | 64      | 67      | 63      | 72    |
| HMF 45 T2/T4 (A8:6) F400 (4p - 40°) | Inlet | 45    | 53     | 64     | 64     | 65      | 66      | 68      | 63      | 73    |
| HMF 45 T2/T4 (A8:6) F400 (4p - 45°) | Inlet | 49    | 54     | 62     | 65     | 67      | 69      | 69      | 64      | 74    |
| HMF 45 T2/T4 (A8:6) F400 (2p - 20°) | Inlet | 60    | 65     | 75     | 80     | 78      | 80      | 82      | 77      | 87    |
| HMF 45 T2/T4 (A8:6) F400 (2p - 25°) | Inlet | 61    | 66     | 73     | 77     | 78      | 80      | 82      | 77      | 87    |
| HMF 45 T2/T4 (A8:6) F400 (2p - 30°) | Inlet | 60    | 66     | 72     | 75     | 79      | 80      | 83      | 77      | 87    |
| HMF 45 T2/T4 (A8:6) F400 (2p - 35°) | Inlet | 60    | 65     | 72     | 82     | 81      | 80      | 83      | 78      | 88    |
| HMF 45 T2/T4 (A8:6) F400 (2p - 40°) | Inlet | 61    | 68     | 80     | 79     | 81      | 82      | 84      | 79      | 89    |
| HMF 45 T2/T4 (A8:6) F400 (2p - 45°) | Inlet | 64    | 70     | 78     | 81     | 83      | 85      | 85      | 80      | 90    |
| HMF 45 T2/T4 (A8:9) F400 (4p - 20°) | Inlet | 47    | 54     | 59     | 67     | 66      | 67      | 67      | 60      | 73    |
| HMF 45 T2/T4 (A8:9) F400 (4p - 25°) | Inlet | 48    | 52     | 60     | 65     | 65      | 66      | 68      | 62      | 73    |
| HMF 45 T2/T4 (A8:9) F400 (4p - 30°) | Inlet | 46    | 51     | 61     | 64     | 64      | 65      | 68      | 63      | 73    |
| HMF 45 T2/T4 (A8:9) F400 (4p - 35°) | Inlet | 47    | 50     | 59     | 62     | 64      | 65      | 70      | 62      | 73    |
| HMF 45 T2/T4 (A8:9) F400 (4p - 40°) | Inlet | 46    | 52     | 58     | 64     | 66      | 66      | 69      | 63      | 73    |
| HMF 45 T2/T4 (A8:9) F400 (4p - 45°) | Inlet | 49    | 52     | 66     | 67     | 68      | 68      | 70      | 64      | 75    |
| HMF 45 T2/T4 (A8:9) F400 (2p - 20°) | Inlet | 63    | 70     | 75     | 83     | 82      | 82      | 83      | 76      | 89    |
| HMF 45 T2/T4 (A8:9) F400 (2p - 25°) | Inlet | 63    | 68     | 75     | 81     | 81      | 82      | 84      | 78      | 89    |
| HMF 45 T2/T4 (A8:9) F400 (2p - 30°) | Inlet | 62    | 67     | 77     | 80     | 80      | 81      | 84      | 79      | 89    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 45 T2/T4 (A8:9) F400 (2p - 35°)  | Inlet | 62    | 66     | 74     | 78     | 80      | 81      | 86      | 78      | 89    |
| HMF 45 T2/T4 (A8:9) F400 (2p - 40°)  | Inlet | 62    | 67     | 74     | 80     | 82      | 82      | 85      | 79      | 89    |
| HMF 45 T2/T4 (A8:9) F400 (2p - 45°)  | Inlet | 65    | 68     | 81     | 82     | 84      | 84      | 86      | 80      | 91    |
| HMF 45 T2/T4 (A8:12) F400 (4p - 20°) | Inlet | 47    | 50     | 60     | 62     | 65      | 66      | 67      | 62      | 72    |
| HMF 45 T2/T4 (A8:12) F400 (4p - 25°) | Inlet | 46    | 50     | 58     | 62     | 64      | 67      | 68      | 62      | 73    |
| HMF 45 T2/T4 (A8:12) F400 (4p - 30°) | Inlet | 45    | 50     | 57     | 62     | 64      | 68      | 70      | 62      | 73    |
| HMF 45 T2/T4 (A8:12) F400 (4p - 35°) | Inlet | 46    | 49     | 58     | 61     | 62      | 65      | 69      | 63      | 72    |
| HMF 45 T2/T4 (A8:12) F400 (4p - 40°) | Inlet | 45    | 47     | 58     | 65     | 65      | 65      | 68      | 65      | 73    |
| HMF 45 T2/T4 (A8:12) F400 (4p - 45°) | Inlet | 48    | 53     | 60     | 66     | 67      | 66      | 69      | 64      | 74    |
| HMF 45 T2/T4 (A8:12) F400 (2p - 20°) | Inlet | 63    | 66     | 76     | 78     | 81      | 82      | 83      | 78      | 88    |
| HMF 45 T2/T4 (A8:12) F400 (2p - 25°) | Inlet | 62    | 66     | 74     | 78     | 80      | 83      | 84      | 78      | 88    |
| HMF 45 T2/T4 (A8:12) F400 (2p - 30°) | Inlet | 61    | 66     | 73     | 78     | 80      | 84      | 86      | 78      | 89    |
| HMF 45 T2/T4 (A8:12) F400 (2p - 35°) | Inlet | 62    | 64     | 74     | 77     | 78      | 81      | 85      | 79      | 88    |
| HMF 45 T2/T4 (A8:12) F400 (2p - 40°) | Inlet | 61    | 63     | 73     | 81     | 81      | 81      | 84      | 80      | 89    |
| HMF 45 T2/T4 (A8:12) F400 (2p - 45°) | Inlet | 64    | 69     | 76     | 82     | 83      | 82      | 85      | 80      | 90    |
| HMF 50 T2/T4 (A8:6) F400 (4p - 20°)  | Inlet | 45    | 51     | 57     | 64     | 64      | 67      | 69      | 64      | 73    |
| HMF 50 T2/T4 (A8:6) F400 (4p - 25°)  | Inlet | 45    | 52     | 57     | 63     | 65      | 66      | 70      | 64      | 73    |
| HMF 50 T2/T4 (A8:6) F400 (4p - 30°)  | Inlet | 45    | 52     | 57     | 63     | 66      | 66      | 70      | 64      | 74    |
| HMF 50 T2/T4 (A8:6) F400 (4p - 35°)  | Inlet | 46    | 53     | 58     | 67     | 67      | 66      | 70      | 65      | 75    |
| HMF 50 T2/T4 (A8:6) F400 (4p - 40°)  | Inlet | 48    | 55     | 65     | 65     | 67      | 68      | 70      | 66      | 75    |
| HMF 50 T2/T4 (A8:6) F400 (4p - 45°)  | Inlet | 51    | 58     | 63     | 68     | 69      | 71      | 72      | 67      | 77    |
| HMF 50 T2/T4 (A8:6) F400 (2p - 20°)  | Inlet | 61    | 67     | 73     | 80     | 80      | 82      | 85      | 79      | 89    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 50 T2/T4 (A8:6) F400 (2p - 25º)  | Inlet | 61    | 68     | 73     | 79     | 81      | 82      | 85      | 80      | 89    |
| HMF 50 T2/T4 (A8:6) F400 (2p - 30º)  | Inlet | 61    | 68     | 73     | 78     | 81      | 82      | 86      | 80      | 90    |
| HMF 50 T2/T4 (A8:6) F400 (2p - 35º)  | Inlet | 62    | 69     | 74     | 83     | 83      | 82      | 86      | 81      | 90    |
| HMF 50 T2/T4 (A8:6) F400 (2p - 40º)  | Inlet | 64    | 71     | 80     | 81     | 83      | 84      | 86      | 82      | 91    |
| HMF 50 T2/T4 (A8:6) F400 (2p - 45º)  | Inlet | 67    | 74     | 79     | 84     | 85      | 87      | 88      | 83      | 93    |
| HMF 50 T2/T4 (A8:9) F400 (4p - 20º)  | Inlet | 47    | 54     | 59     | 67     | 67      | 68      | 70      | 63      | 75    |
| HMF 50 T2/T4 (A8:9) F400 (4p - 25º)  | Inlet | 49    | 52     | 61     | 66     | 67      | 68      | 71      | 65      | 75    |
| HMF 50 T2/T4 (A8:9) F400 (4p - 30º)  | Inlet | 49    | 51     | 62     | 66     | 66      | 67      | 71      | 67      | 75    |
| HMF 50 T2/T4 (A8:9) F400 (4p - 35º)  | Inlet | 47    | 50     | 59     | 65     | 67      | 67      | 72      | 66      | 75    |
| HMF 50 T2/T4 (A8:9) F400 (4p - 40º)  | Inlet | 48    | 53     | 60     | 67     | 68      | 68      | 72      | 67      | 76    |
| HMF 50 T2/T4 (A8:9) F400 (4p - 45º)  | Inlet | 52    | 55     | 65     | 69     | 71      | 70      | 73      | 68      | 78    |
| HMF 50 T2/T4 (A8:9) F400 (2p - 20º)  | Inlet | 63    | 69     | 75     | 83     | 83      | 84      | 86      | 79      | 91    |
| HMF 50 T2/T4 (A8:9) F400 (2p - 25º)  | Inlet | 65    | 68     | 77     | 82     | 82      | 83      | 86      | 81      | 91    |
| HMF 50 T2/T4 (A8:9) F400 (2p - 30º)  | Inlet | 64    | 67     | 78     | 82     | 82      | 83      | 87      | 83      | 91    |
| HMF 50 T2/T4 (A8:9) F400 (2p - 35º)  | Inlet | 63    | 66     | 75     | 81     | 83      | 83      | 87      | 82      | 91    |
| HMF 50 T2/T4 (A8:9) F400 (2p - 40º)  | Inlet | 64    | 69     | 76     | 83     | 84      | 84      | 88      | 83      | 92    |
| HMF 50 T2/T4 (A8:9) F400 (2p - 45º)  | Inlet | 68    | 70     | 81     | 85     | 86      | 86      | 89      | 84      | 94    |
| HMF 50 T2/T4 (A8:12) F400 (4p - 20º) | Inlet | 48    | 52     | 60     | 64     | 68      | 69      | 71      | 66      | 75    |
| HMF 50 T2/T4 (A8:12) F400 (4p - 25º) | Inlet | 47    | 53     | 59     | 64     | 67      | 70      | 72      | 66      | 76    |
| HMF 50 T2/T4 (A8:12) F400 (4p - 30º) | Inlet | 46    | 53     | 58     | 63     | 67      | 70      | 73      | 66      | 76    |
| HMF 50 T2/T4 (A8:12) F400 (4p - 35º) | Inlet | 49    | 49     | 61     | 65     | 66      | 66      | 71      | 67      | 75    |
| HMF 50 T2/T4 (A8:12) F400 (4p - 40º) | Inlet | 48    | 49     | 60     | 66     | 68      | 67      | 71      | 68      | 75    |



| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 50 T2/T4 (A8:12) F400 (4p - 45º) | Inlet | 51    | 54     | 63     | 69     | 69      | 68      | 72      | 67      | 77    |
| HMF 50 T2/T4 (A8:12) F400 (2p - 20º) | Inlet | 64    | 68     | 76     | 80     | 84      | 85      | 87      | 82      | 91    |
| HMF 50 T2/T4 (A8:12) F400 (2p - 25º) | Inlet | 63    | 69     | 75     | 80     | 83      | 85      | 88      | 82      | 92    |
| HMF 50 T2/T4 (A8:12) F400 (2p - 30º) | Inlet | 62    | 69     | 74     | 79     | 83      | 86      | 89      | 82      | 92    |
| HMF 50 T2/T4 (A8:12) F400 (2p - 35º) | Inlet | 65    | 65     | 77     | 80     | 82      | 82      | 87      | 83      | 91    |
| HMF 50 T2/T4 (A8:12) F400 (2p - 40º) | Inlet | 64    | 65     | 76     | 82     | 84      | 83      | 87      | 84      | 91    |
| HMF 50 T2/T4 (A8:12) F400 (2p - 45º) | Inlet | 67    | 69     | 79     | 85     | 85      | 84      | 88      | 83      | 92    |
| HMF 56 T2/T4 (A8:6) F400 (4p - 20º)  | Inlet | 42    | 49     | 54     | 63     | 66      | 69      | 71      | 65      | 75    |
| HMF 56 T2/T4 (A8:6) F400 (4p - 25º)  | Inlet | 44    | 51     | 56     | 65     | 67      | 69      | 72      | 66      | 76    |
| HMF 56 T2/T4 (A8:6) F400 (4p - 30º)  | Inlet | 46    | 53     | 58     | 67     | 68      | 69      | 73      | 68      | 77    |
| HMF 56 T2/T4 (A8:6) F400 (4p - 35º)  | Inlet | 49    | 56     | 61     | 69     | 69      | 69      | 73      | 68      | 77    |
| HMF 56 T2/T4 (A8:6) F400 (4p - 40º)  | Inlet | 53    | 57     | 65     | 67     | 69      | 70      | 72      | 68      | 77    |
| HMF 56 T2/T4 (A8:6) F400 (4p - 45º)  | Inlet | 52    | 59     | 64     | 72     | 72      | 73      | 76      | 71      | 80    |
| HMF 56 T2/T4 (A8:6) F400 (2p - 20º)  | Inlet | 58    | 65     | 70     | 79     | 82      | 85      | 87      | 81      | 91    |
| HMF 56 T2/T4 (A8:6) F400 (2p - 25º)  | Inlet | 60    | 67     | 72     | 81     | 83      | 85      | 88      | 82      | 92    |
| HMF 56 T2/T4 (A8:6) F400 (2p - 30º)  | Inlet | 62    | 69     | 74     | 83     | 84      | 85      | 89      | 84      | 93    |
| HMF 56 T2/T4 (A8:6) F400 (2p - 35º)  | Inlet | 65    | 72     | 77     | 85     | 84      | 85      | 89      | 84      | 93    |
| HMF 56 T2/T4 (A8:6) F400 (2p - 40º)  | Inlet | 69    | 73     | 81     | 83     | 85      | 86      | 88      | 83      | 93    |
| HMF 56 T2/T4 (A8:6) F400 (2p - 45º)  | Inlet | 68    | 75     | 80     | 88     | 88      | 89      | 92      | 87      | 96    |
| HMF 56 T2/T4 (A8:9) F400 (4p - 20º)  | Inlet | 48    | 52     | 60     | 67     | 68      | 70      | 73      | 67      | 77    |
| HMF 56 T2/T4 (A8:9) F400 (4p - 25º)  | Inlet | 50    | 52     | 62     | 67     | 68      | 69      | 73      | 69      | 77    |
| HMF 56 T2/T4 (A8:9) F400 (4p - 30º)  | Inlet | 51    | 51     | 63     | 68     | 68      | 69      | 73      | 71      | 78    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 56 T2/T4 (A8:9) F400 (4p - 35°)  | Inlet | 48    | 51     | 60     | 69     | 71      | 69      | 73      | 70      | 78    |
| HMF 56 T2/T4 (A8:9) F400 (4p - 40°)  | Inlet | 50    | 55     | 62     | 71     | 71      | 70      | 74      | 70      | 79    |
| HMF 56 T2/T4 (A8:9) F400 (4p - 45°)  | Inlet | 51    | 57     | 63     | 71     | 73      | 72      | 76      | 71      | 80    |
| HMF 56 T2/T4 (A8:9) F400 (2p - 20°)  | Inlet | 64    | 68     | 76     | 83     | 84      | 86      | 89      | 83      | 93    |
| HMF 56 T2/T4 (A8:9) F400 (2p - 25°)  | Inlet | 66    | 68     | 78     | 83     | 84      | 85      | 89      | 85      | 93    |
| HMF 56 T2/T4 (A8:9) F400 (2p - 30°)  | Inlet | 67    | 67     | 79     | 84     | 84      | 84      | 89      | 87      | 93    |
| HMF 56 T2/T4 (A8:9) F400 (2p - 35°)  | Inlet | 64    | 67     | 76     | 85     | 87      | 85      | 89      | 86      | 94    |
| HMF 56 T2/T4 (A8:9) F400 (2p - 40°)  | Inlet | 66    | 71     | 78     | 87     | 87      | 86      | 90      | 86      | 95    |
| HMF 56 T2/T4 (A8:9) F400 (2p - 45°)  | Inlet | 67    | 73     | 79     | 87     | 89      | 88      | 92      | 87      | 96    |
| HMF 56 T2/T4 (A8:12) F400 (4p - 20°) | Inlet | 48    | 55     | 60     | 67     | 72      | 74      | 76      | 70      | 80    |
| HMF 56 T2/T4 (A8:12) F400 (4p - 25°) | Inlet | 48    | 55     | 60     | 66     | 71      | 73      | 76      | 69      | 79    |
| HMF 56 T2/T4 (A8:12) F400 (4p - 30°) | Inlet | 48    | 55     | 60     | 65     | 70      | 72      | 76      | 69      | 79    |
| HMF 56 T2/T4 (A8:12) F400 (4p - 35°) | Inlet | 51    | 50     | 65     | 69     | 70      | 68      | 73      | 70      | 78    |
| HMF 56 T2/T4 (A8:12) F400 (4p - 40°) | Inlet | 50    | 52     | 62     | 67     | 72      | 70      | 74      | 71      | 78    |
| HMF 56 T2/T4 (A8:12) F400 (4p - 45°) | Inlet | 53    | 53     | 66     | 71     | 71      | 70      | 75      | 70      | 79    |
| HMF 56 T2/T4 (A8:12) F400 (2p - 20°) | Inlet | 64    | 71     | 76     | 83     | 88      | 90      | 91      | 86      | 96    |
| HMF 56 T2/T4 (A8:12) F400 (2p - 25°) | Inlet | 64    | 71     | 76     | 82     | 87      | 89      | 92      | 85      | 95    |
| HMF 56 T2/T4 (A8:12) F400 (2p - 30°) | Inlet | 64    | 71     | 76     | 81     | 86      | 88      | 92      | 85      | 95    |
| HMF 56 T2/T4 (A8:12) F400 (2p - 35°) | Inlet | 67    | 66     | 81     | 85     | 86      | 84      | 88      | 86      | 93    |
| HMF 56 T2/T4 (A8:12) F400 (2p - 40°) | Inlet | 66    | 68     | 78     | 83     | 88      | 86      | 90      | 87      | 94    |
| HMF 56 T2/T4 (A8:12) F400 (2p - 45°) | Inlet | 69    | 69     | 82     | 87     | 87      | 86      | 91      | 86      | 95    |

## Sound / 4/6 poles

| Sound power Lw dB (A)               |       |       |        |        |        |         |         |         |         |       |
|-------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 56 T4/T6 (A5:6) F400 (6p - 20°) | Inlet | 57    | 64     | 69     | 70     | 71      | 69      | 67      | 59      | 77    |
| HMF 56 T4/T6 (A5:6) F400 (6p - 25°) | Inlet | 44    | 53     | 58     | 64     | 66      | 66      | 67      | 58      | 72    |
| HMF 56 T4/T6 (A5:6) F400 (6p - 30°) | Inlet | 53    | 63     | 70     | 72     | 72      | 70      | 68      | 60      | 78    |
| HMF 56 T4/T6 (A5:6) F400 (6p - 35°) | Inlet | 41    | 53     | 58     | 64     | 65      | 66      | 67      | 59      | 72    |
| HMF 56 T4/T6 (A5:6) F400 (6p - 40°) | Inlet | 47    | 60     | 70     | 76     | 75      | 69      | 67      | 58      | 80    |
| HMF 56 T4/T6 (A5:6) F400 (6p - 45°) | Inlet | 51    | 64     | 79     | 84     | 82      | 71      | 67      | 57      | 87    |
| HMF 56 T4/T6 (A5:6) F400 (4p - 20°) | Inlet | 66    | 73     | 78     | 79     | 80      | 78      | 76      | 68      | 86    |
| HMF 56 T4/T6 (A5:6) F400 (4p - 25°) | Inlet | 53    | 62     | 67     | 73     | 75      | 75      | 76      | 67      | 82    |
| HMF 56 T4/T6 (A5:6) F400 (4p - 30°) | Inlet | 62    | 72     | 79     | 81     | 81      | 79      | 77      | 69      | 87    |
| HMF 56 T4/T6 (A5:6) F400 (4p - 35°) | Inlet | 50    | 62     | 67     | 73     | 74      | 75      | 76      | 68      | 81    |
| HMF 56 T4/T6 (A5:6) F400 (4p - 40°) | Inlet | 56    | 69     | 79     | 85     | 84      | 78      | 76      | 67      | 89    |
| HMF 56 T4/T6 (A5:6) F400 (4p - 45°) | Inlet | 60    | 73     | 88     | 94     | 91      | 80      | 76      | 67      | 96    |
| HMF 63 T4/T6 (A5:6) F400 (6p - 20°) | Inlet | 60    | 67     | 72     | 73     | 74      | 71      | 70      | 63      | 80    |
| HMF 63 T4/T6 (A5:6) F400 (6p - 25°) | Inlet | 45    | 54     | 59     | 64     | 68      | 67      | 67      | 61      | 73    |
| HMF 63 T4/T6 (A5:6) F400 (6p - 30°) | Inlet | 48    | 56     | 66     | 73     | 71      | 70      | 70      | 63      | 78    |
| HMF 63 T4/T6 (A5:6) F400 (6p - 35°) | Inlet | 44    | 56     | 61     | 65     | 69      | 68      | 70      | 63      | 75    |
| HMF 63 T4/T6 (A5:6) F400 (6p - 40°) | Inlet | 45    | 57     | 68     | 80     | 77      | 72      | 70      | 62      | 83    |
| HMF 63 T4/T6 (A5:6) F400 (6p - 45°) | Inlet | 46    | 57     | 73     | 90     | 83      | 75      | 70      | 61      | 91    |
| HMF 63 T4/T6 (A5:6) F400 (4p - 20°) | Inlet | 69    | 76     | 81     | 82     | 83      | 80      | 79      | 72      | 89    |
| HMF 63 T4/T6 (A5:6) F400 (4p - 25°) | Inlet | 54    | 63     | 68     | 73     | 77      | 76      | 76      | 70      | 83    |
| HMF 63 T4/T6 (A5:6) F400 (4p - 30°) | Inlet | 57    | 65     | 75     | 82     | 80      | 79      | 79      | 72      | 87    |

| Sound power Lw dB (A)               |       |       |        |        |        |         |         |         |         |       |
|-------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 63 T4/T6 (A5:6) F400 (4p - 35º) | Inlet | 53    | 65     | 70     | 74     | 78      | 77      | 79      | 72      | 84    |
| HMF 63 T4/T6 (A5:6) F400 (4p - 40º) | Inlet | 54    | 66     | 77     | 89     | 86      | 81      | 79      | 71      | 92    |
| HMF 63 T4/T6 (A5:6) F400 (4p - 45º) | Inlet | 55    | 66     | 82     | 100    | 92      | 84      | 79      | 71      | 100   |
| HMF 71 T4/T6 (A5:6) F400 (6p - 20º) | Inlet | 62    | 69     | 74     | 76     | 76      | 74      | 73      | 66      | 82    |
| HMF 71 T4/T6 (A5:6) F400 (6p - 25º) | Inlet | 49    | 59     | 65     | 69     | 72      | 73      | 73      | 64      | 78    |
| HMF 71 T4/T6 (A5:6) F400 (6p - 30º) | Inlet | 51    | 59     | 65     | 71     | 72      | 72      | 71      | 62      | 78    |
| HMF 71 T4/T6 (A5:6) F400 (6p - 35º) | Inlet | 43    | 55     | 60     | 65     | 69      | 69      | 70      | 61      | 75    |
| HMF 71 T4/T6 (A5:6) F400 (6p - 40º) | Inlet | 48    | 58     | 73     | 83     | 79      | 74      | 72      | 62      | 85    |
| HMF 71 T4/T6 (A5:6) F400 (6p - 45º) | Inlet | 51    | 60     | 82     | 95     | 86      | 77      | 73      | 63      | 96    |
| HMF 71 T4/T6 (A5:6) F400 (4p - 20º) | Inlet | 71    | 78     | 83     | 85     | 85      | 83      | 82      | 75      | 92    |
| HMF 71 T4/T6 (A5:6) F400 (4p - 25º) | Inlet | 58    | 68     | 74     | 78     | 81      | 82      | 82      | 73      | 88    |
| HMF 71 T4/T6 (A5:6) F400 (4p - 30º) | Inlet | 60    | 68     | 75     | 81     | 82      | 81      | 81      | 72      | 87    |
| HMF 71 T4/T6 (A5:6) F400 (4p - 35º) | Inlet | 53    | 65     | 70     | 75     | 78      | 79      | 80      | 71      | 84    |
| HMF 71 T4/T6 (A5:6) F400 (4p - 40º) | Inlet | 57    | 68     | 83     | 92     | 88      | 83      | 81      | 72      | 95    |
| HMF 71 T4/T6 (A5:6) F400 (4p - 45º) | Inlet | 61    | 70     | 92     | 105    | 96      | 87      | 83      | 72      | 105   |
| HMF 80 T4/T6 (A5:6) F400 (6p - 20º) | Inlet | 65    | 72     | 77     | 79     | 79      | 77      | 76      | 69      | 85    |
| HMF 80 T4/T6 (A5:6) F400 (6p - 25º) | Inlet | 52    | 59     | 65     | 70     | 72      | 72      | 73      | 65      | 78    |
| HMF 80 T4/T6 (A5:6) F400 (6p - 30º) | Inlet | 52    | 63     | 70     | 80     | 78      | 76      | 76      | 68      | 84    |
| HMF 80 T4/T6 (A5:6) F400 (6p - 35º) | Inlet | 49    | 61     | 67     | 75     | 80      | 78      | 78      | 69      | 84    |
| HMF 80 T4/T6 (A5:6) F400 (6p - 40º) | Inlet | 50    | 63     | 79     | 84     | 81      | 77      | 75      | 67      | 87    |
| HMF 80 T4/T6 (A5:6) F400 (6p - 45º) | Inlet | 51    | 64     | 87     | 90     | 82      | 76      | 73      | 66      | 93    |
| HMF 80 T4/T6 (A5:6) F400 (4p - 20º) | Inlet | 74    | 81     | 86     | 88     | 88      | 86      | 85      | 78      | 94    |

| Sound power Lw dB (A)               |       |       |        |        |        |         |         |         |         |       |
|-------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 80 T4/T6 (A5:6) F400 (4p - 25°) | Inlet | 61    | 68     | 74     | 79     | 81      | 81      | 82      | 74      | 88    |
| HMF 80 T4/T6 (A5:6) F400 (4p - 30°) | Inlet | 61    | 72     | 79     | 89     | 87      | 85      | 85      | 77      | 93    |
| HMF 80 T4/T6 (A5:6) F400 (4p - 35°) | Inlet | 58    | 70     | 76     | 84     | 89      | 87      | 87      | 78      | 94    |
| HMF 80 T4/T6 (A5:6) F400 (4p - 40°) | Inlet | 59    | 72     | 88     | 93     | 90      | 86      | 84      | 76      | 97    |
| HMF 80 T4/T6 (A5:6) F400 (4p - 45°) | Inlet | 60    | 74     | 97     | 100    | 91      | 86      | 82      | 75      | 102   |
| HMF 90 T4/T6 (A3:4) F400 (6p - 20°) | Inlet | 47    | 58     | 64     | 74     | 78      | 79      | 77      | 69      | 83    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 22°) | Inlet | 51    | 59     | 65     | 74     | 77      | 78      | 76      | 68      | 83    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 24°) | Inlet | 54    | 61     | 66     | 74     | 76      | 77      | 76      | 68      | 82    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 26°) | Inlet | 55    | 62     | 67     | 73     | 75      | 76      | 75      | 67      | 81    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 28°) | Inlet | 56    | 63     | 68     | 73     | 74      | 74      | 74      | 66      | 81    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 30°) | Inlet | 57    | 64     | 69     | 73     | 73      | 73      | 74      | 66      | 80    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 32°) | Inlet | 56    | 63     | 69     | 72     | 74      | 74      | 73      | 65      | 80    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 34°) | Inlet | 56    | 63     | 68     | 72     | 74      | 75      | 73      | 65      | 80    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 36°) | Inlet | 56    | 63     | 69     | 72     | 75      | 75      | 73      | 65      | 81    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 38°) | Inlet | 57    | 64     | 70     | 73     | 76      | 75      | 74      | 66      | 81    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 40°) | Inlet | 59    | 66     | 71     | 73     | 77      | 76      | 74      | 67      | 82    |
| HMF 90 T4/T6 (A3:4) F400 (6p - 42°) | Inlet | 60    | 67     | 72     | 74     | 79      | 77      | 75      | 69      | 83    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 20°) | Inlet | 56    | 68     | 73     | 83     | 88      | 88      | 86      | 78      | 93    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 22°) | Inlet | 60    | 69     | 74     | 83     | 87      | 87      | 85      | 77      | 92    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 24°) | Inlet | 63    | 70     | 75     | 83     | 86      | 86      | 85      | 77      | 91    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 26°) | Inlet | 64    | 71     | 77     | 83     | 85      | 85      | 84      | 76      | 91    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 28°) | Inlet | 65    | 72     | 78     | 82     | 83      | 84      | 84      | 76      | 90    |

| Sound power Lw dB (A)               |       |       |        |        |        |         |         |         |         |       |
|-------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 90 T4/T6 (A3:4) F400 (4p - 30°) | Inlet | 66    | 73     | 79     | 82     | 82      | 83      | 83      | 75      | 89    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 32°) | Inlet | 66    | 73     | 78     | 82     | 83      | 83      | 83      | 74      | 89    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 34°) | Inlet | 65    | 72     | 78     | 81     | 83      | 84      | 82      | 74      | 89    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 36°) | Inlet | 66    | 73     | 78     | 81     | 84      | 84      | 82      | 74      | 90    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 38°) | Inlet | 67    | 74     | 79     | 82     | 85      | 85      | 83      | 75      | 91    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 40°) | Inlet | 68    | 75     | 80     | 82     | 87      | 85      | 84      | 77      | 91    |
| HMF 90 T4/T6 (A3:4) F400 (4p - 42°) | Inlet | 69    | 76     | 82     | 84     | 88      | 86      | 84      | 78      | 93    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 20°) | Inlet | 60    | 72     | 81     | 82     | 84      | 78      | 79      | 69      | 88    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 22°) | Inlet | 60    | 70     | 79     | 81     | 83      | 78      | 79      | 69      | 87    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 24°) | Inlet | 60    | 69     | 77     | 80     | 82      | 79      | 78      | 69      | 87    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 26°) | Inlet | 60    | 68     | 75     | 79     | 81      | 79      | 78      | 69      | 86    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 28°) | Inlet | 60    | 67     | 73     | 78     | 80      | 79      | 78      | 70      | 85    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 30°) | Inlet | 59    | 66     | 71     | 77     | 79      | 79      | 78      | 70      | 85    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 32°) | Inlet | 58    | 65     | 70     | 76     | 78      | 78      | 77      | 69      | 84    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 34°) | Inlet | 57    | 64     | 70     | 74     | 77      | 78      | 76      | 68      | 83    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 36°) | Inlet | 58    | 65     | 70     | 74     | 77      | 78      | 75      | 68      | 83    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 38°) | Inlet | 59    | 66     | 72     | 74     | 78      | 78      | 75      | 68      | 83    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 40°) | Inlet | 61    | 68     | 74     | 75     | 79      | 78      | 75      | 68      | 84    |
| HMF 90 T4/T6 (A3:8) F400 (6p - 42°) | Inlet | 61    | 68     | 74     | 75     | 79      | 79      | 75      | 68      | 84    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 20°) | Inlet | 69    | 81     | 90     | 91     | 93      | 88      | 88      | 78      | 98    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 22°) | Inlet | 69    | 80     | 88     | 90     | 92      | 88      | 88      | 78      | 97    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 24°) | Inlet | 69    | 79     | 86     | 89     | 91      | 88      | 88      | 78      | 96    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 90 T4/T6 (A3:8) F400 (4p - 26º)  | Inlet | 69    | 77     | 84     | 88     | 90      | 88      | 87      | 79      | 95    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 28º)  | Inlet | 69    | 76     | 82     | 87     | 89      | 88      | 87      | 79      | 94    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 30º)  | Inlet | 68    | 75     | 80     | 86     | 88      | 88      | 87      | 79      | 94    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 32º)  | Inlet | 67    | 74     | 80     | 85     | 87      | 88      | 86      | 78      | 93    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 34º)  | Inlet | 66    | 74     | 79     | 84     | 86      | 87      | 85      | 77      | 92    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 36º)  | Inlet | 67    | 74     | 80     | 83     | 86      | 87      | 85      | 77      | 92    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 38º)  | Inlet | 69    | 76     | 81     | 83     | 87      | 87      | 84      | 77      | 92    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 40º)  | Inlet | 70    | 77     | 83     | 84     | 88      | 87      | 84      | 77      | 93    |
| HMF 90 T4/T6 (A3:8) F400 (4p - 42º)  | Inlet | 70    | 78     | 83     | 84     | 88      | 88      | 85      | 78      | 93    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 20º) | Inlet | 56    | 67     | 72     | 79     | 82      | 83      | 84      | 81      | 89    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 22º) | Inlet | 57    | 67     | 72     | 79     | 82      | 83      | 84      | 80      | 89    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 24º) | Inlet | 57    | 66     | 72     | 78     | 82      | 83      | 84      | 80      | 89    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 26º) | Inlet | 57    | 66     | 72     | 77     | 81      | 82      | 84      | 78      | 88    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 28º) | Inlet | 58    | 65     | 71     | 77     | 81      | 82      | 83      | 78      | 88    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 30º) | Inlet | 58    | 65     | 71     | 77     | 80      | 81      | 83      | 77      | 88    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 32º) | Inlet | 59    | 64     | 71     | 76     | 80      | 81      | 83      | 76      | 87    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 34º) | Inlet | 59    | 64     | 71     | 76     | 79      | 81      | 82      | 76      | 87    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 36º) | Inlet | 59    | 64     | 72     | 76     | 79      | 81      | 82      | 76      | 87    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 38º) | Inlet | 59    | 65     | 72     | 77     | 80      | 81      | 82      | 76      | 87    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 40º) | Inlet | 59    | 66     | 72     | 78     | 81      | 81      | 83      | 77      | 88    |
| HMF 100 T4/T6 (A3:4) F400 (6p - 42º) | Inlet | 60    | 67     | 73     | 79     | 83      | 82      | 83      | 78      | 89    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 20º) | Inlet | 66    | 76     | 81     | 88     | 91      | 92      | 93      | 90      | 98    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 100 T4/T6 (A3:4) F400 (4p - 22º) | Inlet | 66    | 76     | 82     | 88     | 91      | 92      | 93      | 90      | 98    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 24º) | Inlet | 67    | 76     | 81     | 87     | 91      | 92      | 93      | 89      | 98    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 26º) | Inlet | 67    | 75     | 81     | 87     | 90      | 91      | 93      | 88      | 97    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 28º) | Inlet | 67    | 75     | 81     | 86     | 90      | 91      | 93      | 87      | 97    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 30º) | Inlet | 68    | 74     | 81     | 86     | 90      | 91      | 93      | 86      | 97    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 32º) | Inlet | 68    | 74     | 81     | 86     | 89      | 90      | 92      | 86      | 96    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 34º) | Inlet | 69    | 73     | 81     | 85     | 88      | 90      | 91      | 85      | 96    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 36º) | Inlet | 69    | 73     | 81     | 86     | 88      | 90      | 91      | 85      | 96    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 38º) | Inlet | 68    | 74     | 81     | 86     | 89      | 90      | 92      | 85      | 96    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 40º) | Inlet | 68    | 75     | 81     | 87     | 90      | 91      | 92      | 86      | 97    |
| HMF 100 T4/T6 (A3:4) F400 (4p - 42º) | Inlet | 69    | 77     | 83     | 88     | 92      | 92      | 93      | 87      | 98    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 20º) | Inlet | 63    | 71     | 83     | 92     | 90      | 89      | 90      | 86      | 97    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 22º) | Inlet | 63    | 71     | 82     | 90     | 90      | 89      | 90      | 85      | 96    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 24º) | Inlet | 62    | 70     | 80     | 88     | 88      | 87      | 88      | 83      | 94    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 26º) | Inlet | 62    | 70     | 79     | 86     | 87      | 87      | 87      | 82      | 93    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 28º) | Inlet | 62    | 70     | 78     | 84     | 86      | 86      | 87      | 81      | 92    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 30º) | Inlet | 62    | 70     | 77     | 82     | 85      | 86      | 86      | 80      | 91    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 32º) | Inlet | 62    | 69     | 75     | 80     | 84      | 85      | 85      | 79      | 90    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 34º) | Inlet | 61    | 68     | 73     | 79     | 83      | 84      | 85      | 78      | 90    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 36º) | Inlet | 61    | 68     | 73     | 78     | 82      | 84      | 85      | 78      | 89    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 38º) | Inlet | 62    | 69     | 74     | 79     | 83      | 84      | 85      | 79      | 90    |
| HMF 100 T4/T6 (A3:8) F400 (6p - 40º) | Inlet | 62    | 69     | 74     | 79     | 83      | 85      | 85      | 79      | 90    |



| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 100 T4/T6 (A3:8) F400 (6p - 42º) | Inlet | 63    | 70     | 75     | 80     | 83      | 85      | 86      | 79      | 90    |
| HMF 100 T4/T6 (A3:8) F400 (4p - 20º) | Inlet | 72    | 81     | 92     | 102    | 100     | 99      | 100     | 95      | 107   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 22º) | Inlet | 72    | 80     | 91     | 100    | 99      | 98      | 99      | 94      | 106   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 24º) | Inlet | 72    | 79     | 89     | 97     | 97      | 97      | 98      | 93      | 104   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 26º) | Inlet | 72    | 79     | 88     | 95     | 96      | 96      | 97      | 92      | 103   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 28º) | Inlet | 72    | 79     | 87     | 93     | 96      | 95      | 96      | 91      | 102   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 30º) | Inlet | 72    | 79     | 86     | 91     | 95      | 95      | 96      | 90      | 101   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 32º) | Inlet | 71    | 79     | 84     | 90     | 93      | 94      | 95      | 89      | 100   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 34º) | Inlet | 71    | 78     | 83     | 88     | 92      | 93      | 94      | 88      | 99    |
| HMF 100 T4/T6 (A3:8) F400 (4p - 36º) | Inlet | 70    | 77     | 82     | 87     | 91      | 93      | 94      | 87      | 99    |
| HMF 100 T4/T6 (A3:8) F400 (4p - 38º) | Inlet | 71    | 78     | 83     | 88     | 92      | 94      | 94      | 88      | 99    |
| HMF 100 T4/T6 (A3:8) F400 (4p - 40º) | Inlet | 71    | 79     | 84     | 89     | 92      | 94      | 95      | 89      | 100   |
| HMF 100 T4/T6 (A3:8) F400 (4p - 42º) | Inlet | 72    | 79     | 84     | 89     | 93      | 94      | 95      | 89      | 100   |
| HMF 112 T4/T6 (A3:4) F400 (6p - 20º) | Inlet | 56    | 69     | 74     | 81     | 84      | 85      | 87      | 83      | 91    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 22º) | Inlet | 58    | 69     | 74     | 81     | 85      | 86      | 87      | 83      | 92    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 24º) | Inlet | 59    | 69     | 74     | 80     | 84      | 85      | 86      | 82      | 91    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 26º) | Inlet | 60    | 69     | 74     | 80     | 84      | 84      | 86      | 81      | 90    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 28º) | Inlet | 61    | 69     | 74     | 79     | 83      | 84      | 85      | 80      | 90    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 30º) | Inlet | 61    | 68     | 73     | 79     | 82      | 83      | 85      | 78      | 89    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 32º) | Inlet | 61    | 67     | 73     | 78     | 82      | 83      | 84      | 78      | 89    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 34º) | Inlet | 61    | 67     | 73     | 78     | 81      | 82      | 84      | 77      | 88    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 36º) | Inlet | 61    | 67     | 73     | 78     | 81      | 82      | 84      | 77      | 88    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 112 T4/T6 (A3:4) F400 (6p - 38°) | Inlet | 62    | 68     | 74     | 79     | 81      | 83      | 84      | 77      | 89    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 40°) | Inlet | 63    | 69     | 75     | 79     | 82      | 84      | 84      | 78      | 89    |
| HMF 112 T4/T6 (A3:4) F400 (6p - 42°) | Inlet | 63    | 70     | 75     | 80     | 83      | 84      | 85      | 79      | 90    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 20°) | Inlet | 66    | 78     | 83     | 90     | 94      | 94      | 96      | 92      | 101   |
| HMF 112 T4/T6 (A3:4) F400 (4p - 22°) | Inlet | 68    | 79     | 84     | 90     | 94      | 95      | 96      | 92      | 102   |
| HMF 112 T4/T6 (A3:4) F400 (4p - 24°) | Inlet | 69    | 78     | 83     | 90     | 93      | 94      | 96      | 91      | 101   |
| HMF 112 T4/T6 (A3:4) F400 (4p - 26°) | Inlet | 70    | 78     | 83     | 89     | 93      | 94      | 95      | 90      | 100   |
| HMF 112 T4/T6 (A3:4) F400 (4p - 28°) | Inlet | 71    | 78     | 83     | 89     | 92      | 93      | 95      | 89      | 99    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 30°) | Inlet | 71    | 78     | 83     | 88     | 92      | 93      | 94      | 88      | 99    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 32°) | Inlet | 70    | 77     | 82     | 88     | 91      | 92      | 94      | 87      | 98    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 34°) | Inlet | 70    | 76     | 82     | 87     | 90      | 92      | 93      | 86      | 98    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 36°) | Inlet | 71    | 76     | 83     | 87     | 90      | 92      | 93      | 86      | 98    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 38°) | Inlet | 71    | 77     | 83     | 88     | 91      | 92      | 93      | 87      | 98    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 40°) | Inlet | 72    | 79     | 84     | 89     | 91      | 93      | 94      | 87      | 99    |
| HMF 112 T4/T6 (A3:4) F400 (4p - 42°) | Inlet | 72    | 79     | 84     | 89     | 92      | 94      | 94      | 88      | 99    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 20°) | Inlet | 64    | 73     | 82     | 91     | 91      | 93      | 93      | 88      | 99    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 22°) | Inlet | 64    | 72     | 81     | 90     | 90      | 92      | 92      | 87      | 97    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 24°) | Inlet | 64    | 72     | 80     | 88     | 90      | 91      | 91      | 86      | 96    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 26°) | Inlet | 64    | 71     | 80     | 86     | 89      | 90      | 90      | 85      | 96    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 28°) | Inlet | 65    | 71     | 79     | 85     | 89      | 90      | 90      | 84      | 95    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 30°) | Inlet | 65    | 71     | 78     | 84     | 88      | 89      | 89      | 84      | 94    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 32°) | Inlet | 64    | 71     | 77     | 82     | 86      | 88      | 88      | 82      | 93    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 112 T4/T6 (A3:8) F400 (6p - 34°) | Inlet | 64    | 71     | 76     | 81     | 84      | 86      | 87      | 80      | 91    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 36°) | Inlet | 63    | 70     | 75     | 80     | 84      | 86      | 86      | 79      | 91    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 38°) | Inlet | 64    | 71     | 76     | 81     | 84      | 86      | 86      | 80      | 91    |
| HMF 112 T4/T6 (A3:8) F400 (6p - 40°) | Inlet | 64    | 71     | 76     | 81     | 85      | 87      | 86      | 80      | 92    |
| HMF 112 T4/T6 (A3:8) F400 (4p - 20°) | Inlet | 73    | 82     | 92     | 101    | 101     | 103     | 103     | 97      | 109   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 22°) | Inlet | 73    | 81     | 91     | 99     | 100     | 102     | 102     | 96      | 107   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 24°) | Inlet | 73    | 81     | 90     | 97     | 99      | 101     | 101     | 95      | 106   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 26°) | Inlet | 74    | 81     | 89     | 96     | 98      | 100     | 100     | 94      | 106   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 28°) | Inlet | 74    | 81     | 88     | 94     | 98      | 99      | 99      | 94      | 105   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 30°) | Inlet | 74    | 80     | 87     | 93     | 97      | 99      | 99      | 93      | 104   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 32°) | Inlet | 74    | 81     | 86     | 91     | 96      | 97      | 97      | 91      | 103   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 34°) | Inlet | 73    | 80     | 85     | 90     | 94      | 96      | 96      | 89      | 101   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 36°) | Inlet | 73    | 80     | 85     | 90     | 93      | 95      | 95      | 89      | 101   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 38°) | Inlet | 73    | 80     | 85     | 90     | 94      | 96      | 95      | 89      | 101   |
| HMF 112 T4/T6 (A3:8) F400 (4p - 40°) | Inlet | 74    | 81     | 86     | 90     | 94      | 96      | 95      | 90      | 102   |
| HMF 125 T4/T6 (A3:4) F400 (6p - 20°) | Inlet | 63    | 76     | 81     | 89     | 92      | 92      | 94      | 91      | 99    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 22°) | Inlet | 65    | 77     | 82     | 89     | 92      | 93      | 95      | 91      | 99    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 24°) | Inlet | 66    | 76     | 81     | 87     | 90      | 91      | 93      | 89      | 97    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 26°) | Inlet | 66    | 74     | 79     | 85     | 89      | 90      | 91      | 86      | 96    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 28°) | Inlet | 66    | 73     | 78     | 83     | 87      | 88      | 89      | 84      | 94    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 30°) | Inlet | 65    | 72     | 77     | 82     | 85      | 87      | 88      | 82      | 92    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 32°) | Inlet | 65    | 72     | 77     | 81     | 85      | 86      | 87      | 80      | 92    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 125 T4/T6 (A3:4) F400 (6p - 34°) | Inlet | 64    | 71     | 76     | 81     | 84      | 85      | 87      | 79      | 91    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 36°) | Inlet | 64    | 71     | 76     | 81     | 84      | 85      | 86      | 79      | 91    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 38°) | Inlet | 65    | 72     | 77     | 81     | 84      | 86      | 87      | 79      | 91    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 40°) | Inlet | 65    | 72     | 77     | 82     | 84      | 87      | 87      | 80      | 92    |
| HMF 125 T4/T6 (A3:4) F400 (6p - 42°) | Inlet | 66    | 73     | 78     | 83     | 85      | 87      | 87      | 81      | 92    |
| HMF 125 T4/T6 (A3:4) F400 (4p - 20°) | Inlet | 72    | 85     | 90     | 98     | 102     | 102     | 104     | 101     | 109   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 22°) | Inlet | 75    | 86     | 91     | 98     | 102     | 103     | 105     | 101     | 109   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 24°) | Inlet | 75    | 85     | 90     | 96     | 100     | 101     | 103     | 98      | 107   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 26°) | Inlet | 76    | 84     | 89     | 94     | 98      | 99      | 101     | 96      | 106   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 28°) | Inlet | 75    | 82     | 87     | 93     | 96      | 98      | 99      | 93      | 104   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 30°) | Inlet | 74    | 81     | 86     | 91     | 95      | 96      | 97      | 91      | 102   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 32°) | Inlet | 74    | 81     | 86     | 90     | 94      | 96      | 96      | 90      | 102   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 34°) | Inlet | 73    | 80     | 85     | 90     | 93      | 95      | 96      | 88      | 101   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 36°) | Inlet | 74    | 81     | 86     | 90     | 93      | 95      | 96      | 88      | 101   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 38°) | Inlet | 74    | 81     | 86     | 91     | 93      | 95      | 96      | 89      | 101   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 40°) | Inlet | 75    | 82     | 87     | 91     | 93      | 96      | 96      | 89      | 102   |
| HMF 125 T4/T6 (A3:4) F400 (4p - 42°) | Inlet | 75    | 82     | 87     | 92     | 94      | 96      | 96      | 90      | 102   |
| HMF 125 T4/T6 (A3:8) F400 (6p - 20°) | Inlet | 69    | 77     | 84     | 93     | 98      | 101     | 100     | 95      | 105   |
| HMF 125 T4/T6 (A3:8) F400 (6p - 22°) | Inlet | 69    | 77     | 84     | 92     | 97      | 100     | 99      | 94      | 104   |
| HMF 125 T4/T6 (A3:8) F400 (6p - 24°) | Inlet | 69    | 76     | 83     | 90     | 96      | 98      | 98      | 92      | 103   |
| HMF 125 T4/T6 (A3:8) F400 (6p - 26°) | Inlet | 69    | 75     | 82     | 89     | 94      | 96      | 96      | 90      | 101   |
| HMF 125 T4/T6 (A3:8) F400 (6p - 28°) | Inlet | 68    | 75     | 81     | 88     | 92      | 95      | 95      | 89      | 100   |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 125 T4/T6 (A3:8) F400 (6p - 30°) | Inlet | 68    | 74     | 80     | 86     | 91      | 93      | 94      | 87      | 98    |
| HMF 125 T4/T6 (A3:8) F400 (6p - 32°) | Inlet | 68    | 74     | 80     | 85     | 90      | 92      | 92      | 85      | 97    |
| HMF 125 T4/T6 (A3:8) F400 (6p - 34°) | Inlet | 68    | 74     | 80     | 85     | 88      | 90      | 90      | 83      | 95    |
| HMF 125 T4/T6 (A3:8) F400 (6p - 36°) | Inlet | 67    | 74     | 79     | 84     | 87      | 89      | 89      | 82      | 94    |
| HMF 125 T4/T6 (A3:8) F400 (6p - 38°) | Inlet | 67    | 74     | 79     | 84     | 87      | 89      | 88      | 81      | 94    |
| HMF 125 T4/T6 (A3:8) F400 (6p - 40°) | Inlet | 67    | 74     | 79     | 83     | 87      | 89      | 87      | 81      | 93    |
| HMF 125 T4/T6 (A3:8) F400 (4p - 20°) | Inlet | 78    | 86     | 93     | 103    | 108     | 111     | 110     | 105     | 115   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 22°) | Inlet | 79    | 86     | 93     | 102    | 107     | 110     | 109     | 104     | 114   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 24°) | Inlet | 78    | 85     | 92     | 100    | 106     | 108     | 108     | 102     | 113   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 26°) | Inlet | 78    | 85     | 91     | 98     | 104     | 106     | 106     | 100     | 111   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 28°) | Inlet | 78    | 84     | 91     | 97     | 102     | 105     | 105     | 98      | 110   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 30°) | Inlet | 77    | 83     | 90     | 96     | 101     | 103     | 104     | 97      | 108   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 32°) | Inlet | 77    | 83     | 89     | 95     | 99      | 102     | 102     | 94      | 107   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 34°) | Inlet | 77    | 83     | 89     | 94     | 97      | 99      | 100     | 92      | 105   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 36°) | Inlet | 77    | 83     | 89     | 93     | 96      | 98      | 98      | 91      | 104   |
| HMF 125 T4/T6 (A3:8) F400 (4p - 40°) | Inlet | 76    | 83     | 88     | 93     | 96      | 98      | 97      | 90      | 103   |

## Sound / 4/8 poles

| Sound power Lw dB (A)                   |       |       |        |        |        |         |         |         |         |       |
|-----------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                   |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 45 T4/T8 (A5:6) F400 (±720 - 20°)   | Inlet | 31    | 36     | 43     | 50     | 52      | 54      | 52      | 44      | 59    |
| HMF 45 T4/T8 (A5:6) F400 (±720 - 25°)   | Inlet | 32    | 38     | 45     | 50     | 53      | 53      | 53      | 44      | 59    |
| HMF 45 T4/T8 (A5:6) F400 (±720 - 27,5°) | Inlet | 33    | 40     | 47     | 50     | 53      | 52      | 54      | 44      | 59    |

| Sound power Lw dB (A)                         |       |       |        |        |        |         |         |         |         |       |
|-----------------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                         |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 45 T4/T8 (A5:6) F400 ( $\pm 720$ - 30°)   | Inlet | 33    | 41     | 48     | 50     | 53      | 52      | 54      | 44      | 59    |
| HMF 45 T4/T8 (A5:6) F400 ( $\pm 720$ - 32,5°) | Inlet | 31    | 41     | 48     | 49     | 52      | 51      | 53      | 44      | 58    |
| HMF 45 T4/T8 (A5:6) F400 ( $\pm 720$ - 35°)   | Inlet | 29    | 40     | 49     | 49     | 50      | 49      | 52      | 43      | 57    |
| HMF 45 T4/T8 (A5:6) F400 ( $\pm 720$ - 37,5°) | Inlet | 30    | 41     | 49     | 49     | 52      | 51      | 53      | 44      | 58    |
| HMF 45 T4/T8 (A5:6) F400 ( $\pm 720$ - 40°)   | Inlet | 31    | 41     | 48     | 50     | 53      | 52      | 54      | 44      | 59    |
| HMF 45 T4/T8 (A5:6) F400 ( $\pm 720$ - 42,5°) | Inlet | 32    | 41     | 48     | 50     | 54      | 53      | 54      | 44      | 60    |
| HMF 45 T4/T8 (A5:6) F400 ( $\pm 720$ - 45°)   | Inlet | 33    | 40     | 46     | 50     | 55      | 55      | 55      | 44      | 61    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 20°)         | Inlet | 48    | 53     | 60     | 67     | 69      | 70      | 69      | 60      | 75    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 25°)         | Inlet | 49    | 55     | 62     | 67     | 69      | 70      | 70      | 61      | 75    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 27,5°)       | Inlet | 49    | 57     | 64     | 67     | 69      | 69      | 71      | 61      | 76    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 30°)         | Inlet | 49    | 58     | 65     | 67     | 70      | 69      | 71      | 61      | 76    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 32,5°)       | Inlet | 48    | 57     | 65     | 66     | 68      | 67      | 70      | 60      | 75    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 35°)         | Inlet | 46    | 57     | 65     | 65     | 67      | 66      | 69      | 60      | 74    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 37,5°)       | Inlet | 47    | 57     | 65     | 66     | 68      | 67      | 70      | 60      | 75    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 40°)         | Inlet | 48    | 58     | 65     | 67     | 70      | 69      | 71      | 61      | 76    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 42,5°)       | Inlet | 48    | 57     | 64     | 67     | 70      | 70      | 71      | 61      | 76    |
| HMF 45 T4/T8 (A5:6) F400 (1420 - 45°)         | Inlet | 50    | 57     | 63     | 67     | 72      | 72      | 72      | 61      | 77    |
| HMF 50 T4/T8 (A5:6) F400 ( $\pm 720$ - 20°)   | Inlet | 34    | 40     | 49     | 55     | 61      | 59      | 58      | 49      | 65    |
| HMF 50 T4/T8 (A5:6) F400 ( $\pm 720$ - 25°)   | Inlet | 31    | 39     | 47     | 53     | 57      | 56      | 56      | 47      | 62    |
| HMF 50 T4/T8 (A5:6) F400 ( $\pm 720$ - 27,5°) | Inlet | 29    | 37     | 44     | 50     | 53      | 52      | 54      | 45      | 59    |
| HMF 50 T4/T8 (A5:6) F400 ( $\pm 720$ - 30°)   | Inlet | 28    | 36     | 43     | 49     | 51      | 51      | 53      | 44      | 58    |
| HMF 50 T4/T8 (A5:6) F400 ( $\pm 720$ - 32,5°) | Inlet | 29    | 38     | 45     | 50     | 51      | 51      | 54      | 46      | 59    |

| Sound power Lw dB (A)                               |       |       |        |        |        |         |         |         |         |       |
|-----------------------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMf 50 T4/T8 (A5:6) F400 ( $\pm 720 - 35^\circ$ )   | Inlet | 31    | 40     | 46     | 51     | 51      | 52      | 55      | 47      | 59    |
| HMf 50 T4/T8 (A5:6) F400 ( $\pm 720 - 37,5^\circ$ ) | Inlet | 32    | 41     | 48     | 53     | 53      | 54      | 57      | 50      | 61    |
| HMf 50 T4/T8 (A5:6) F400 ( $\pm 720 - 40^\circ$ )   | Inlet | 34    | 42     | 51     | 54     | 55      | 56      | 59      | 52      | 63    |
| HMf 50 T4/T8 (A5:6) F400 ( $\pm 720 - 42,5^\circ$ ) | Inlet | 34    | 42     | 51     | 54     | 55      | 56      | 59      | 52      | 63    |
| HMf 50 T4/T8 (A5:6) F400 ( $\pm 720 - 45^\circ$ )   | Inlet | 33    | 42     | 51     | 53     | 56      | 57      | 59      | 51      | 64    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 20 $^\circ$ )      | Inlet | 50    | 57     | 65     | 71     | 77      | 75      | 75      | 66      | 81    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 25 $^\circ$ )      | Inlet | 48    | 55     | 63     | 69     | 73      | 72      | 73      | 64      | 79    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 27,5 $^\circ$ )    | Inlet | 45    | 54     | 61     | 67     | 70      | 69      | 71      | 61      | 76    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 30 $^\circ$ )      | Inlet | 44    | 53     | 60     | 66     | 68      | 68      | 70      | 60      | 75    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 32,5 $^\circ$ )    | Inlet | 46    | 55     | 61     | 67     | 68      | 68      | 71      | 62      | 75    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 35 $^\circ$ )      | Inlet | 48    | 57     | 63     | 68     | 68      | 69      | 72      | 64      | 76    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 37,5 $^\circ$ )    | Inlet | 49    | 58     | 65     | 69     | 70      | 70      | 74      | 66      | 78    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 40 $^\circ$ )      | Inlet | 51    | 59     | 67     | 71     | 72      | 72      | 76      | 69      | 80    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 42,5 $^\circ$ )    | Inlet | 50    | 59     | 67     | 71     | 72      | 73      | 76      | 68      | 80    |
| HMf 50 T4/T8 (A5:6) F400 (1420 - 45 $^\circ$ )      | Inlet | 50    | 58     | 67     | 70     | 73      | 74      | 76      | 68      | 80    |
| HMf 56 T4/T8 (A5:6) F400 (710 - 20 $^\circ$ )       | Inlet | 50    | 57     | 62     | 63     | 64      | 62      | 60      | 52      | 70    |
| HMf 56 T4/T8 (A5:6) F400 (710 - 25 $^\circ$ )       | Inlet | 37    | 46     | 51     | 57     | 59      | 59      | 60      | 51      | 66    |
| HMf 56 T4/T8 (A5:6) F400 (710 - 30 $^\circ$ )       | Inlet | 46    | 56     | 63     | 65     | 65      | 63      | 61      | 53      | 71    |
| HMf 56 T4/T8 (A5:6) F400 (710 - 35 $^\circ$ )       | Inlet | 34    | 46     | 51     | 57     | 58      | 59      | 60      | 52      | 65    |
| HMf 56 T4/T8 (A5:6) F400 (710 - 40 $^\circ$ )       | Inlet | 40    | 53     | 63     | 69     | 68      | 62      | 60      | 51      | 73    |
| HMf 56 T4/T8 (A5:6) F400 (710 - 45 $^\circ$ )       | Inlet | 45    | 57     | 72     | 78     | 75      | 64      | 60      | 51      | 81    |
| HMf 56 T4/T8 (A5:6) F400 (4p - 20 $^\circ$ )        | Inlet | 66    | 73     | 78     | 79     | 80      | 78      | 76      | 68      | 86    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 56 T4/T8 (A5:6) F400 (4p - 25°)  | Inlet | 53    | 62     | 67     | 73     | 75      | 75      | 76      | 67      | 82    |
| HMF 56 T4/T8 (A5:6) F400 (4p - 30°)  | Inlet | 62    | 72     | 79     | 81     | 81      | 79      | 77      | 69      | 87    |
| HMF 56 T4/T8 (A5:6) F400 (4p - 35°)  | Inlet | 50    | 62     | 67     | 73     | 74      | 75      | 76      | 68      | 81    |
| HMF 56 T4/T8 (A5:6) F400 (4p - 40°)  | Inlet | 56    | 69     | 79     | 85     | 84      | 78      | 76      | 67      | 89    |
| HMF 56 T4/T8 (A5:6) F400 (4p - 45°)  | Inlet | 60    | 73     | 88     | 94     | 91      | 80      | 76      | 67      | 96    |
| HMF 63 T4/T8 (A5:6) F400 (710 - 20°) | Inlet | 53    | 60     | 65     | 66     | 67      | 64      | 63      | 56      | 73    |
| HMF 63 T4/T8 (A5:6) F400 (710 - 25°) | Inlet | 39    | 48     | 53     | 58     | 62      | 61      | 61      | 54      | 67    |
| HMF 63 T4/T8 (A5:6) F400 (710 - 30°) | Inlet | 41    | 49     | 59     | 66     | 64      | 63      | 63      | 56      | 71    |
| HMF 63 T4/T8 (A5:6) F400 (710 - 35°) | Inlet | 37    | 49     | 54     | 58     | 62      | 61      | 63      | 56      | 68    |
| HMF 63 T4/T8 (A5:6) F400 (710 - 40°) | Inlet | 38    | 50     | 62     | 73     | 70      | 65      | 63      | 55      | 76    |
| HMF 63 T4/T8 (A5:6) F400 (710 - 45°) | Inlet | 39    | 50     | 67     | 84     | 76      | 68      | 63      | 55      | 85    |
| HMF 63 T4/T8 (A5:6) F400 (4p - 20°)  | Inlet | 69    | 76     | 81     | 82     | 83      | 80      | 79      | 72      | 89    |
| HMF 63 T4/T8 (A5:6) F400 (4p - 25°)  | Inlet | 54    | 63     | 68     | 73     | 77      | 76      | 76      | 70      | 83    |
| HMF 63 T4/T8 (A5:6) F400 (4p - 30°)  | Inlet | 57    | 65     | 75     | 82     | 80      | 79      | 79      | 72      | 87    |
| HMF 63 T4/T8 (A5:6) F400 (4p - 35°)  | Inlet | 53    | 65     | 70     | 74     | 78      | 77      | 79      | 72      | 84    |
| HMF 63 T4/T8 (A5:6) F400 (4p - 40°)  | Inlet | 54    | 66     | 77     | 89     | 86      | 81      | 79      | 71      | 92    |
| HMF 63 T4/T8 (A5:6) F400 (4p - 45°)  | Inlet | 55    | 66     | 82     | 100    | 92      | 84      | 79      | 71      | 100   |
| HMF 71 T4/T8 (A5:6) F400 (8p - 20°)  | Inlet | 56    | 63     | 68     | 70     | 70      | 68      | 67      | 60      | 76    |
| HMF 71 T4/T8 (A5:6) F400 (8p - 25°)  | Inlet | 43    | 52     | 58     | 62     | 65      | 66      | 66      | 57      | 72    |
| HMF 71 T4/T8 (A5:6) F400 (8p - 30°)  | Inlet | 44    | 53     | 59     | 65     | 66      | 66      | 65      | 56      | 72    |
| HMF 71 T4/T8 (A5:6) F400 (8p - 35°)  | Inlet | 37    | 49     | 54     | 59     | 62      | 63      | 64      | 55      | 69    |
| HMF 71 T4/T8 (A5:6) F400 (8p - 40°)  | Inlet | 41    | 52     | 67     | 76     | 72      | 68      | 66      | 56      | 79    |



| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 71 T4/T8 (A5:6) F400 (8p - 45º)  | Inlet | 45    | 54     | 76     | 89     | 80      | 71      | 67      | 56      | 90    |
| HMF 71 T4/T8 (A5:6) F400 (4p - 20º)  | Inlet | 71    | 78     | 83     | 85     | 85      | 83      | 82      | 75      | 92    |
| HMF 71 T4/T8 (A5:6) F400 (4p - 25º)  | Inlet | 58    | 68     | 74     | 78     | 81      | 82      | 82      | 73      | 88    |
| HMF 71 T4/T8 (A5:6) F400 (4p - 30º)  | Inlet | 60    | 68     | 75     | 81     | 82      | 81      | 81      | 72      | 87    |
| HMF 71 T4/T8 (A5:6) F400 (4p - 35º)  | Inlet | 53    | 65     | 70     | 75     | 78      | 79      | 80      | 71      | 84    |
| HMF 71 T4/T8 (A5:6) F400 (4p - 40º)  | Inlet | 57    | 68     | 83     | 92     | 88      | 83      | 81      | 72      | 95    |
| HMF 71 T4/T8 (A5:6) F400 (4p - 45º)  | Inlet | 61    | 70     | 92     | 105    | 96      | 87      | 83      | 72      | 105   |
| HMF 80 T4/T8 (A5:6) F400 (710 - 20º) | Inlet | 58    | 65     | 70     | 72     | 72      | 70      | 69      | 62      | 79    |
| HMF 80 T4/T8 (A5:6) F400 (710 - 25º) | Inlet | 45    | 52     | 58     | 63     | 65      | 65      | 66      | 58      | 72    |
| HMF 80 T4/T8 (A5:6) F400 (710 - 30º) | Inlet | 45    | 57     | 64     | 73     | 71      | 69      | 69      | 61      | 78    |
| HMF 80 T4/T8 (A5:6) F400 (710 - 35º) | Inlet | 42    | 54     | 60     | 68     | 73      | 71      | 71      | 62      | 78    |
| HMF 80 T4/T8 (A5:6) F400 (710 - 40º) | Inlet | 43    | 56     | 72     | 77     | 74      | 70      | 68      | 60      | 81    |
| HMF 80 T4/T8 (A5:6) F400 (710 - 45º) | Inlet | 44    | 58     | 81     | 84     | 75      | 70      | 66      | 59      | 86    |
| HMF 80 T4/T8 (A5:6) F400 (4p - 20º)  | Inlet | 74    | 81     | 86     | 88     | 88      | 86      | 85      | 78      | 94    |
| HMF 80 T4/T8 (A5:6) F400 (4p - 25º)  | Inlet | 61    | 68     | 74     | 79     | 81      | 81      | 82      | 74      | 88    |
| HMF 80 T4/T8 (A5:6) F400 (4p - 30º)  | Inlet | 61    | 72     | 79     | 89     | 87      | 85      | 85      | 77      | 93    |
| HMF 80 T4/T8 (A5:6) F400 (4p - 35º)  | Inlet | 58    | 70     | 76     | 84     | 89      | 87      | 87      | 78      | 94    |
| HMF 80 T4/T8 (A5:6) F400 (4p - 40º)  | Inlet | 59    | 72     | 88     | 93     | 90      | 86      | 84      | 76      | 97    |
| HMF 80 T4/T8 (A5:6) F400 (4p - 45º)  | Inlet | 60    | 74     | 97     | 100    | 91      | 86      | 82      | 75      | 102   |
| HMF 90 T4/T8 (A3:4) F400 (8p - 20º)  | Inlet | 41    | 52     | 57     | 67     | 72      | 72      | 70      | 62      | 77    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 22º)  | Inlet | 44    | 53     | 58     | 67     | 71      | 71      | 70      | 61      | 76    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 24º)  | Inlet | 47    | 54     | 60     | 67     | 70      | 70      | 69      | 61      | 75    |

| Sound power Lw dB (A)               |       |       |        |        |        |         |         |         |         |       |
|-------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 90 T4/T8 (A3:4) F400 (8p - 26°) | Inlet | 48    | 55     | 61     | 67     | 69      | 69      | 68      | 60      | 75    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 28°) | Inlet | 49    | 56     | 62     | 67     | 68      | 68      | 68      | 60      | 74    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 30°) | Inlet | 50    | 57     | 63     | 66     | 67      | 67      | 67      | 59      | 74    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 32°) | Inlet | 50    | 57     | 62     | 66     | 67      | 67      | 67      | 59      | 74    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 34°) | Inlet | 49    | 56     | 62     | 65     | 67      | 68      | 66      | 58      | 74    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 36°) | Inlet | 50    | 57     | 62     | 65     | 68      | 69      | 67      | 58      | 74    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 38°) | Inlet | 51    | 58     | 63     | 66     | 69      | 69      | 67      | 60      | 75    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 40°) | Inlet | 52    | 59     | 65     | 67     | 71      | 69      | 68      | 61      | 76    |
| HMF 90 T4/T8 (A3:4) F400 (8p - 42°) | Inlet | 53    | 60     | 66     | 68     | 72      | 70      | 69      | 62      | 77    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 20°) | Inlet | 56    | 68     | 73     | 83     | 88      | 88      | 86      | 78      | 93    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 22°) | Inlet | 60    | 69     | 74     | 83     | 87      | 87      | 85      | 77      | 92    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 24°) | Inlet | 63    | 70     | 75     | 83     | 86      | 86      | 85      | 77      | 91    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 26°) | Inlet | 64    | 71     | 77     | 83     | 85      | 85      | 84      | 76      | 91    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 28°) | Inlet | 65    | 72     | 78     | 82     | 83      | 84      | 84      | 76      | 90    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 30°) | Inlet | 66    | 73     | 79     | 82     | 82      | 83      | 83      | 75      | 89    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 32°) | Inlet | 66    | 73     | 78     | 82     | 83      | 83      | 83      | 74      | 89    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 34°) | Inlet | 65    | 72     | 78     | 81     | 83      | 84      | 82      | 74      | 89    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 36°) | Inlet | 66    | 73     | 78     | 81     | 84      | 84      | 82      | 74      | 90    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 38°) | Inlet | 67    | 74     | 79     | 82     | 85      | 85      | 83      | 75      | 91    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 40°) | Inlet | 68    | 75     | 80     | 82     | 87      | 85      | 84      | 77      | 91    |
| HMF 90 T4/T8 (A3:4) F400 (4p - 42°) | Inlet | 69    | 76     | 82     | 84     | 88      | 86      | 84      | 78      | 93    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 20°) | Inlet | 53    | 65     | 75     | 75     | 77      | 72      | 72      | 62      | 82    |

| Sound power Lw dB (A)               |       |       |        |        |        |         |         |         |         |       |
|-------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                               |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 90 T4/T8 (A3:8) F400 (8p - 22º) | Inlet | 53    | 64     | 73     | 74     | 76      | 72      | 72      | 62      | 81    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 24º) | Inlet | 53    | 63     | 71     | 73     | 75      | 72      | 72      | 62      | 80    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 26º) | Inlet | 53    | 62     | 69     | 72     | 74      | 72      | 72      | 63      | 79    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 28º) | Inlet | 54    | 60     | 67     | 71     | 73      | 72      | 71      | 63      | 79    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 30º) | Inlet | 52    | 59     | 65     | 70     | 72      | 72      | 71      | 63      | 78    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 32º) | Inlet | 51    | 58     | 64     | 69     | 71      | 72      | 70      | 62      | 77    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 34º) | Inlet | 51    | 58     | 63     | 68     | 71      | 71      | 69      | 61      | 76    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 36º) | Inlet | 51    | 58     | 64     | 67     | 71      | 71      | 69      | 61      | 76    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 38º) | Inlet | 53    | 60     | 65     | 68     | 71      | 71      | 69      | 61      | 77    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 40º) | Inlet | 54    | 62     | 67     | 68     | 72      | 71      | 68      | 62      | 77    |
| HMF 90 T4/T8 (A3:8) F400 (8p - 42º) | Inlet | 55    | 62     | 67     | 69     | 73      | 72      | 69      | 62      | 78    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 20º) | Inlet | 69    | 81     | 90     | 91     | 93      | 88      | 88      | 78      | 98    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 22º) | Inlet | 69    | 80     | 88     | 90     | 92      | 88      | 88      | 78      | 97    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 24º) | Inlet | 69    | 79     | 86     | 89     | 91      | 88      | 88      | 78      | 96    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 26º) | Inlet | 69    | 77     | 84     | 88     | 90      | 88      | 87      | 79      | 95    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 28º) | Inlet | 69    | 76     | 82     | 87     | 89      | 88      | 87      | 79      | 94    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 30º) | Inlet | 68    | 75     | 80     | 86     | 88      | 88      | 87      | 79      | 94    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 32º) | Inlet | 67    | 74     | 80     | 85     | 87      | 88      | 86      | 78      | 93    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 34º) | Inlet | 66    | 74     | 79     | 84     | 86      | 87      | 85      | 77      | 92    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 36º) | Inlet | 67    | 74     | 80     | 83     | 86      | 87      | 85      | 77      | 92    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 38º) | Inlet | 69    | 76     | 81     | 83     | 87      | 87      | 84      | 77      | 92    |
| HMF 90 T4/T8 (A3:8) F400 (4p - 40º) | Inlet | 70    | 77     | 83     | 84     | 88      | 87      | 84      | 77      | 93    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 90 T4/T8 (A3:8) F400 (4p - 42º)  | Inlet | 70    | 78     | 83     | 84     | 88      | 88      | 85      | 78      | 93    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 20º) | Inlet | 50    | 60     | 66     | 72     | 76      | 76      | 77      | 74      | 82    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 22º) | Inlet | 50    | 60     | 66     | 72     | 76      | 76      | 77      | 74      | 82    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 24º) | Inlet | 51    | 60     | 66     | 72     | 75      | 76      | 77      | 73      | 82    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 26º) | Inlet | 51    | 59     | 65     | 71     | 74      | 75      | 77      | 72      | 82    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 28º) | Inlet | 51    | 59     | 65     | 71     | 74      | 75      | 77      | 71      | 81    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 30º) | Inlet | 52    | 59     | 65     | 70     | 74      | 75      | 77      | 70      | 81    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 32º) | Inlet | 52    | 58     | 65     | 70     | 73      | 74      | 76      | 70      | 80    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 34º) | Inlet | 53    | 57     | 65     | 69     | 72      | 74      | 76      | 69      | 80    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 36º) | Inlet | 53    | 57     | 65     | 70     | 72      | 74      | 75      | 69      | 80    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 38º) | Inlet | 52    | 58     | 65     | 70     | 73      | 74      | 76      | 69      | 80    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 40º) | Inlet | 52    | 59     | 66     | 71     | 75      | 75      | 76      | 70      | 81    |
| HMF 100 T4/T8 (A3:4) F400 (8p - 42º) | Inlet | 53    | 61     | 67     | 72     | 76      | 76      | 77      | 71      | 82    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 20º) | Inlet | 66    | 76     | 81     | 88     | 91      | 92      | 93      | 90      | 98    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 22º) | Inlet | 66    | 76     | 82     | 88     | 91      | 92      | 93      | 90      | 98    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 24º) | Inlet | 67    | 76     | 81     | 87     | 91      | 92      | 93      | 89      | 98    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 26º) | Inlet | 67    | 75     | 81     | 87     | 90      | 91      | 93      | 88      | 97    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 28º) | Inlet | 67    | 75     | 81     | 86     | 90      | 91      | 93      | 87      | 97    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 30º) | Inlet | 68    | 74     | 81     | 86     | 90      | 91      | 93      | 86      | 97    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 32º) | Inlet | 68    | 74     | 81     | 86     | 89      | 90      | 92      | 86      | 96    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 34º) | Inlet | 69    | 73     | 81     | 85     | 88      | 90      | 91      | 85      | 96    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 36º) | Inlet | 69    | 73     | 81     | 86     | 88      | 90      | 91      | 85      | 96    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 100 T4/T8 (A3:4) F400 (4p - 38°) | Inlet | 68    | 74     | 81     | 86     | 89      | 90      | 92      | 85      | 96    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 40°) | Inlet | 68    | 75     | 81     | 87     | 90      | 91      | 92      | 86      | 97    |
| HMF 100 T4/T8 (A3:4) F400 (4p - 42°) | Inlet | 69    | 77     | 83     | 88     | 92      | 92      | 93      | 87      | 98    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 20°) | Inlet | 56    | 65     | 76     | 86     | 84      | 83      | 84      | 79      | 91    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 22°) | Inlet | 56    | 64     | 75     | 84     | 83      | 82      | 83      | 78      | 90    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 24°) | Inlet | 56    | 64     | 73     | 81     | 82      | 81      | 82      | 77      | 88    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 26°) | Inlet | 56    | 63     | 72     | 79     | 80      | 80      | 81      | 76      | 87    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 28°) | Inlet | 56    | 63     | 71     | 77     | 80      | 80      | 80      | 75      | 86    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 30°) | Inlet | 56    | 63     | 70     | 75     | 79      | 79      | 80      | 74      | 85    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 32°) | Inlet | 55    | 63     | 68     | 74     | 77      | 78      | 79      | 73      | 84    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 34°) | Inlet | 55    | 62     | 67     | 72     | 76      | 77      | 78      | 72      | 83    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 36°) | Inlet | 54    | 61     | 66     | 71     | 75      | 77      | 78      | 72      | 83    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 38°) | Inlet | 55    | 62     | 67     | 72     | 76      | 78      | 78      | 72      | 83    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 40°) | Inlet | 56    | 63     | 68     | 73     | 76      | 78      | 79      | 73      | 84    |
| HMF 100 T4/T8 (A3:8) F400 (8p - 42°) | Inlet | 56    | 63     | 68     | 73     | 77      | 78      | 79      | 73      | 84    |
| HMF 100 T4/T8 (A3:8) F400 (4p - 20°) | Inlet | 72    | 81     | 92     | 102    | 100     | 99      | 100     | 95      | 107   |
| HMF 100 T4/T8 (A3:8) F400 (4p - 22°) | Inlet | 72    | 80     | 91     | 100    | 99      | 98      | 99      | 94      | 106   |
| HMF 100 T4/T8 (A3:8) F400 (4p - 24°) | Inlet | 72    | 79     | 89     | 97     | 97      | 97      | 98      | 93      | 104   |
| HMF 100 T4/T8 (A3:8) F400 (4p - 26°) | Inlet | 72    | 79     | 88     | 95     | 96      | 96      | 97      | 92      | 103   |
| HMF 100 T4/T8 (A3:8) F400 (4p - 28°) | Inlet | 72    | 79     | 87     | 93     | 96      | 95      | 96      | 91      | 102   |
| HMF 100 T4/T8 (A3:8) F400 (4p - 30°) | Inlet | 72    | 79     | 86     | 91     | 95      | 95      | 96      | 90      | 101   |
| HMF 100 T4/T8 (A3:8) F400 (4p - 32°) | Inlet | 71    | 79     | 84     | 90     | 93      | 94      | 95      | 89      | 100   |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 100 T4/T8 (A3:8) F400 (4p - 34°) | Inlet | 71    | 78     | 83     | 88     | 92      | 93      | 94      | 88      | 99    |
| HMF 100 T4/T8 (A3:8) F400 (4p - 36°) | Inlet | 70    | 77     | 82     | 87     | 91      | 93      | 94      | 87      | 99    |
| HMF 100 T4/T8 (A3:8) F400 (4p - 38°) | Inlet | 71    | 78     | 83     | 88     | 92      | 94      | 94      | 88      | 99    |
| HMF 100 T4/T8 (A3:8) F400 (4p - 40°) | Inlet | 71    | 79     | 84     | 89     | 92      | 94      | 95      | 89      | 100   |
| HMF 100 T4/T8 (A3:8) F400 (4p - 42°) | Inlet | 72    | 79     | 84     | 89     | 93      | 94      | 95      | 89      | 100   |
| HMF 112 T4/T8 (A3:4) F400 (8p - 20°) | Inlet | 50    | 62     | 67     | 74     | 78      | 78      | 80      | 76      | 85    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 22°) | Inlet | 52    | 63     | 68     | 74     | 78      | 79      | 81      | 76      | 86    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 24°) | Inlet | 53    | 62     | 67     | 74     | 77      | 78      | 80      | 75      | 85    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 26°) | Inlet | 54    | 62     | 67     | 73     | 77      | 78      | 79      | 74      | 84    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 28°) | Inlet | 55    | 62     | 67     | 73     | 76      | 77      | 79      | 73      | 83    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 30°) | Inlet | 55    | 62     | 67     | 72     | 76      | 77      | 78      | 72      | 83    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 32°) | Inlet | 55    | 61     | 67     | 72     | 75      | 76      | 78      | 71      | 82    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 34°) | Inlet | 54    | 60     | 66     | 71     | 74      | 76      | 77      | 70      | 82    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 36°) | Inlet | 55    | 60     | 67     | 71     | 74      | 76      | 77      | 70      | 82    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 38°) | Inlet | 55    | 61     | 67     | 72     | 75      | 76      | 78      | 71      | 82    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 40°) | Inlet | 56    | 63     | 68     | 73     | 76      | 77      | 78      | 71      | 83    |
| HMF 112 T4/T8 (A3:4) F400 (8p - 42°) | Inlet | 57    | 63     | 69     | 73     | 76      | 78      | 78      | 72      | 83    |
| HMF 112 T4/T8 (A3:4) F400 (4p - 20°) | Inlet | 66    | 78     | 83     | 90     | 94      | 94      | 96      | 92      | 101   |
| HMF 112 T4/T8 (A3:4) F400 (4p - 22°) | Inlet | 68    | 79     | 84     | 90     | 94      | 95      | 96      | 92      | 102   |
| HMF 112 T4/T8 (A3:4) F400 (4p - 24°) | Inlet | 69    | 78     | 83     | 90     | 93      | 94      | 96      | 91      | 101   |
| HMF 112 T4/T8 (A3:4) F400 (4p - 26°) | Inlet | 70    | 78     | 83     | 89     | 93      | 94      | 95      | 90      | 100   |
| HMF 112 T4/T8 (A3:4) F400 (4p - 28°) | Inlet | 71    | 78     | 83     | 89     | 92      | 93      | 95      | 89      | 99    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 112 T4/T8 (A3:4) F400 (4p - 30°) | Inlet | 71    | 78     | 83     | 88     | 92      | 93      | 94      | 88      | 99    |
| HMF 112 T4/T8 (A3:4) F400 (4p - 32°) | Inlet | 70    | 77     | 82     | 88     | 91      | 92      | 94      | 87      | 98    |
| HMF 112 T4/T8 (A3:4) F400 (4p - 34°) | Inlet | 70    | 76     | 82     | 87     | 90      | 92      | 93      | 86      | 98    |
| HMF 112 T4/T8 (A3:4) F400 (4p - 36°) | Inlet | 71    | 76     | 83     | 87     | 90      | 92      | 93      | 86      | 98    |
| HMF 112 T4/T8 (A3:4) F400 (4p - 38°) | Inlet | 71    | 77     | 83     | 88     | 91      | 92      | 93      | 87      | 98    |
| HMF 112 T4/T8 (A3:4) F400 (4p - 40°) | Inlet | 72    | 79     | 84     | 89     | 91      | 93      | 94      | 87      | 99    |
| HMF 112 T4/T8 (A3:4) F400 (4p - 42°) | Inlet | 72    | 79     | 84     | 89     | 92      | 94      | 94      | 88      | 99    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 20°) | Inlet | 57    | 66     | 76     | 85     | 85      | 87      | 87      | 81      | 93    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 22°) | Inlet | 57    | 65     | 75     | 83     | 84      | 86      | 86      | 80      | 91    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 24°) | Inlet | 57    | 65     | 74     | 81     | 83      | 85      | 85      | 79      | 90    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 26°) | Inlet | 58    | 65     | 73     | 80     | 83      | 84      | 84      | 78      | 90    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 28°) | Inlet | 58    | 65     | 72     | 78     | 82      | 83      | 83      | 78      | 89    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 30°) | Inlet | 58    | 65     | 72     | 77     | 81      | 83      | 83      | 77      | 88    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 32°) | Inlet | 58    | 65     | 70     | 76     | 80      | 81      | 81      | 75      | 87    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 34°) | Inlet | 57    | 64     | 69     | 74     | 78      | 80      | 80      | 73      | 85    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 36°) | Inlet | 57    | 64     | 69     | 74     | 77      | 79      | 80      | 73      | 85    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 38°) | Inlet | 57    | 64     | 69     | 74     | 78      | 80      | 80      | 73      | 85    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 40°) | Inlet | 58    | 65     | 70     | 74     | 78      | 80      | 80      | 74      | 86    |
| HMF 112 T4/T8 (A3:8) F400 (8p - 42°) | Inlet | 58    | 65     | 70     | 75     | 78      | 80      | 79      | 73      | 85    |
| HMF 112 T4/T8 (A3:8) F400 (4p - 20°) | Inlet | 73    | 82     | 92     | 101    | 101     | 103     | 103     | 97      | 109   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 22°) | Inlet | 73    | 81     | 91     | 99     | 100     | 102     | 102     | 96      | 107   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 24°) | Inlet | 73    | 81     | 90     | 97     | 99      | 101     | 101     | 95      | 106   |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 112 T4/T8 (A3:8) F400 (4p - 26°) | Inlet | 74    | 81     | 89     | 96     | 98      | 100     | 100     | 94      | 106   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 28°) | Inlet | 74    | 81     | 88     | 94     | 98      | 99      | 99      | 94      | 105   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 30°) | Inlet | 74    | 80     | 87     | 93     | 97      | 99      | 99      | 93      | 104   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 32°) | Inlet | 74    | 81     | 86     | 91     | 96      | 97      | 97      | 91      | 103   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 34°) | Inlet | 73    | 80     | 85     | 90     | 94      | 96      | 96      | 89      | 101   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 36°) | Inlet | 73    | 80     | 85     | 90     | 93      | 95      | 95      | 89      | 101   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 38°) | Inlet | 73    | 80     | 85     | 90     | 94      | 96      | 95      | 89      | 101   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 40°) | Inlet | 74    | 81     | 86     | 90     | 94      | 96      | 95      | 90      | 102   |
| HMF 112 T4/T8 (A3:8) F400 (4p - 42°) | Inlet | 73    | 80     | 85     | 91     | 94      | 96      | 95      | 89      | 101   |
| HMF 125 T4/T8 (A3:4) F400 (8p - 20°) | Inlet | 56    | 69     | 74     | 82     | 86      | 86      | 88      | 85      | 93    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 22°) | Inlet | 59    | 70     | 75     | 82     | 86      | 87      | 89      | 85      | 93    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 24°) | Inlet | 59    | 69     | 74     | 80     | 84      | 85      | 87      | 82      | 91    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 26°) | Inlet | 60    | 68     | 73     | 78     | 82      | 83      | 85      | 80      | 90    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 28°) | Inlet | 60    | 67     | 72     | 77     | 80      | 82      | 83      | 77      | 88    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 30°) | Inlet | 58    | 65     | 70     | 75     | 79      | 80      | 81      | 75      | 86    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 32°) | Inlet | 58    | 65     | 70     | 75     | 78      | 80      | 81      | 74      | 86    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 34°) | Inlet | 58    | 65     | 70     | 74     | 77      | 79      | 80      | 72      | 85    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 36°) | Inlet | 58    | 65     | 70     | 74     | 77      | 79      | 80      | 72      | 85    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 38°) | Inlet | 58    | 65     | 70     | 75     | 77      | 79      | 80      | 73      | 85    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 40°) | Inlet | 59    | 66     | 71     | 75     | 78      | 80      | 80      | 73      | 86    |
| HMF 125 T4/T8 (A3:4) F400 (8p - 42°) | Inlet | 59    | 66     | 71     | 76     | 79      | 81      | 80      | 74      | 86    |
| HMF 125 T4/T8 (A3:4) F400 (4p - 20°) | Inlet | 72    | 85     | 90     | 98     | 102     | 102     | 104     | 101     | 109   |



| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 125 T4/T8 (A3:4) F400 (4p - 22º) | Inlet | 75    | 86     | 91     | 98     | 102     | 103     | 105     | 101     | 109   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 24º) | Inlet | 75    | 85     | 90     | 96     | 100     | 101     | 103     | 98      | 107   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 26º) | Inlet | 76    | 84     | 89     | 94     | 98      | 99      | 101     | 96      | 106   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 28º) | Inlet | 75    | 82     | 87     | 93     | 96      | 98      | 99      | 93      | 104   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 30º) | Inlet | 74    | 81     | 86     | 91     | 95      | 96      | 97      | 91      | 102   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 32º) | Inlet | 74    | 81     | 86     | 90     | 94      | 96      | 96      | 90      | 102   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 34º) | Inlet | 73    | 80     | 85     | 90     | 93      | 95      | 96      | 88      | 101   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 36º) | Inlet | 74    | 81     | 86     | 90     | 93      | 95      | 96      | 88      | 101   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 38º) | Inlet | 74    | 81     | 86     | 91     | 93      | 95      | 96      | 89      | 101   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 40º) | Inlet | 75    | 82     | 87     | 91     | 93      | 96      | 96      | 89      | 102   |
| HMF 125 T4/T8 (A3:4) F400 (4p - 42º) | Inlet | 75    | 82     | 87     | 92     | 94      | 96      | 96      | 90      | 102   |
| HMF 125 T4/T8 (A3:8) F400 (8p - 20º) | Inlet | 62    | 71     | 78     | 87     | 92      | 95      | 94      | 89      | 99    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 22º) | Inlet | 63    | 70     | 77     | 86     | 91      | 94      | 93      | 88      | 98    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 24º) | Inlet | 62    | 70     | 76     | 84     | 90      | 92      | 92      | 86      | 97    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 26º) | Inlet | 62    | 69     | 75     | 82     | 88      | 90      | 90      | 84      | 95    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 28º) | Inlet | 62    | 68     | 75     | 81     | 86      | 89      | 89      | 82      | 94    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 30º) | Inlet | 62    | 67     | 74     | 80     | 85      | 87      | 88      | 81      | 92    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 32º) | Inlet | 61    | 67     | 73     | 79     | 83      | 86      | 86      | 79      | 91    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 34º) | Inlet | 61    | 68     | 73     | 78     | 81      | 84      | 84      | 76      | 89    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 36º) | Inlet | 61    | 68     | 73     | 77     | 81      | 83      | 82      | 75      | 88    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 38º) | Inlet | 60    | 67     | 72     | 77     | 80      | 82      | 82      | 75      | 88    |
| HMF 125 T4/T8 (A3:8) F400 (8p - 40º) | Inlet | 60    | 67     | 72     | 77     | 80      | 82      | 81      | 74      | 87    |

| Sound power Lw dB (A)                |       |       |        |        |        |         |         |         |         |       |
|--------------------------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                                |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| HMF 125 T4/T8 (A3:8) F400 (4p - 20°) | Inlet | 78    | 86     | 93     | 103    | 108     | 111     | 110     | 105     | 115   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 22°) | Inlet | 79    | 86     | 93     | 102    | 107     | 110     | 109     | 104     | 114   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 24°) | Inlet | 78    | 85     | 92     | 100    | 106     | 108     | 108     | 102     | 113   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 26°) | Inlet | 78    | 85     | 91     | 98     | 104     | 106     | 106     | 100     | 111   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 28°) | Inlet | 78    | 84     | 91     | 97     | 102     | 105     | 105     | 98      | 110   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 30°) | Inlet | 77    | 83     | 90     | 96     | 101     | 103     | 104     | 97      | 108   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 32°) | Inlet | 77    | 83     | 89     | 95     | 99      | 102     | 102     | 94      | 107   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 34°) | Inlet | 77    | 83     | 89     | 94     | 97      | 99      | 100     | 92      | 105   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 36°) | Inlet | 77    | 83     | 89     | 93     | 96      | 98      | 98      | 91      | 104   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 38°) | Inlet | 76    | 83     | 88     | 93     | 96      | 98      | 97      | 91      | 104   |
| HMF 125 T4/T8 (A3:8) F400 (4p - 40°) | Inlet | 76    | 83     | 88     | 93     | 96      | 98      | 97      | 90      | 103   |

## erp data

| ERP                                  |           |
|--------------------------------------|-----------|
| Fan type                             | Axial fan |
| Installation category                | A         |
| Efficiency category                  | Static    |
| The fan has to be installed with FSC | No        |

## ERP / 2 poles

| Model                        | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                              |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 45 T2 (A8:6) F400 (20º)  | 1,10             | 40,14                         | 46,05                    | 4.803,50        | 343,40  | 1,17      | -           | 1,00           |
| HMF 45 T2 (A8:6) F400 (25º)  | 1,50             | 39,16                         | 44,19                    | 5.651,73        | 399,99  | 1,60      | -           | 1,00           |
| HMF 45 T2 (A8:6) F400 (30º)  | 2,20             | 38,58                         | 42,90                    | 6.490,16        | 450,69  | 2,09      | -           | 1,00           |
| HMF 45 T2 (A8:9) F400 (20º)  | 1,50             | 37,31                         | 42,69                    | 4.613,40        | 404,95  | 1,42      | -           | 1,00           |
| HMF 45 T2 (A8:9) F400 (25º)  | 2,20             | 37,75                         | 42,36                    | 5.772,28        | 438,86  | 1,88      | -           | 1,00           |
| HMF 45 T2 (A8:9) F400 (30º)  | 2,20             | 36,86                         | 40,73                    | 6.946,91        | 469,41  | 2,45      | -           | 1,00           |
| HMF 45 T2 (A8:12) F400 (20º) | 1,50             | 36,68                         | 41,60                    | 4.584,76        | 459,55  | 1,67      | -           | 1,00           |
| HMF 45 T2 (A8:12) F400 (25º) | 2,20             | 37,46                         | 41,67                    | 5.923,25        | 482,04  | 2,17      | -           | 1,00           |
| HMF 45 T2 (A8:12) F400 (30º) | 3                | 37,10                         | 40,64                    | 7.271,47        | 506,32  | 2,77      | -           | 1,00           |
| HMF 45 T2 (A8:12) F400 (35º) | 3                | 35,45                         | 38,32                    | 8.407,51        | 541,94  | 3,53      | -           | 1,00           |
| HMF 50 T2 (A8:6) F400 (20º)  | 1,50             | 43,35                         | 48,20                    | 6.460,78        | 406,59  | 1,71      | -           | 1,00           |
| HMF 50 T2 (A8:6) F400 (25º)  | 2,20             | 42,52                         | 46,48                    | 7.735,09        | 468,90  | 2,37      | -           | 1,00           |
| HMF 50 T2 (A8:6) F400 (30º)  | 3                | 41,08                         | 44,25                    | 8.976,05        | 524,64  | 3,17      | -           | 1,00           |
| HMF 50 T2 (A8:6) F400 (35º)  | 4                | 37,29                         | 39,78                    | 10.169,54       | 542,69  | 4,06      | -           | 1,00           |
| HMF 50 T2 (A8:9) F400 (20º)  | 2,20             | 41,14                         | 45,45                    | 6.372,44        | 477,29  | 2,09      | -           | 1,00           |
| HMF 50 T2 (A8:9) F400 (25º)  | 3                | 40,63                         | 44,09                    | 8.062,10        | 512,90  | 2,86      | -           | 1,00           |
| HMF 50 T2 (A8:9) F400 (30º)  | 4                | 39,40                         | 42,07                    | 9.635,87        | 559,63  | 3,79      | -           | 1,00           |
| HMF 50 T2 (A8:9) F400 (35º)  | 4                | 36,79                         | 38,77                    | 11.046          | 590,70  | 4,89      | -           | 1,00           |
| HMF 50 T2 (A8:12) F400 (20º) | 3                | 40,78                         | 44,58                    | 6.479,02        | 551,68  | 2,52      | -           | 1,00           |
| HMF 50 T2 (A8:12) F400 (25º) | 4                | 40,11                         | 43,12                    | 8.209,82        | 581,01  | 3,37      | -           | 1,00           |
| HMF 50 T2 (A8:12) F400 (30º) | 4                | 38,72                         | 40,99                    | 10.083,01       | 600,29  | 4,40      | -           | 1,00           |
| HMF 56 T2 (A8:6) F400 (20º)  | 2,20             | 46,55                         | 50,55                    | 8.109,16        | 478,97  | 2,34      | -           | 1,00           |
| HMF 56 T2 (A8:6) F400 (25º)  | 3                | 45,69                         | 48,77                    | 10.105,54       | 531,29  | 3,28      | -           | 1,00           |
| HMF 56 T2 (A8:6) F400 (30º)  | 4                | 44,21                         | 46,45                    | 11.935,37       | 594,34  | 4,44      | -           | 1,00           |
| HMF 56 T2 (A8:6) F400 (35º)  | 5,50             | 40,77                         | 42,31                    | 13.782,31       | 617,83  | 5,73      | -           | 1,00           |
| HMF 56 T2 (A8:6) F400 (40º)  | 7,50             | 37,34                         | 38,36                    | 15.992,50       | 573,77  | 6,95      | -           | 1,00           |
| HMF 56 T2 (A8:9) F400 (20º)  | 3                | 44,71                         | 48,15                    | 8.165           | 559,83  | 2,87      | -           | 1,00           |
| HMF 56 T2 (A8:9) F400 (25º)  | 4                | 43,41                         | 45,94                    | 10.325,73       | 604,31  | 4,01      | -           | 1,00           |

| Model                        | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                              |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 56 T2 (A8:9) F400 (30º)  | 5,50             | 42,15                         | 43,87                    | 12.574,66       | 650,66  | 5,38      | -           | 1,00           |
| HMF 56 T2 (A8:9) F400 (35º)  | 7,50             | 39,78                         | 40,83                    | 14.585,59       | 678,74  | 6,88      | -           | 1,00           |
| HMF 56 T2 (A8:12) F400 (20º) | 4                | 44,28                         | 47,13                    | 8.500,71        | 647,64  | 3,56      | -           | 1,00           |
| HMF 56 T2 (A8:12) F400 (25º) | 5,50             | 42,84                         | 44,87                    | 10.745,79       | 674,16  | 4,81      | -           | 1,00           |
| HMF 56 T2 (A8:12) F400 (30º) | 7,50             | 41,32                         | 42,63                    | 13.011,54       | 703,81  | 6,25      | -           | 1,00           |
| HMF 56 T2 (A8:12) F400 (35º) | 7,50             | 38,95                         | 39,55                    | 15.414,36       | 733,31  | 8,10      | -           | 1,00           |

## ERP / 4 poles

| Model                         | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|-------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                               |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 45 T4 (A5:6) F400 (20º)   | 0,75             | 29,05                         | 39,10                    | 2.491,11        | 106,33  | 0,26      | -           | 1,00           |
| HMF 45 T4 (A5:6) F400 (25º)   | 0,75             | 30,67                         | 40,22                    | 2.911,16        | 116,66  | 0,31      | -           | 1,00           |
| HMF 45 T4 (A5:6) F400 (27,5º) | 0,75             | 31,64                         | 40,72                    | 3.296,92        | 126,90  | 0,37      | -           | 1,00           |
| HMF 45 T4 (A5:6) F400 (30º)   | 0,75             | 32                            | 40,89                    | 3.459,55        | 131,58  | 0,39      | -           | 1,00           |
| HMF 45 T4 (A5:6) F400 (32,5º) | 0,75             | 31,39                         | 40,03                    | 3.702,03        | 133,26  | 0,43      | -           | 1,00           |
| HMF 45 T4 (A5:6) F400 (35º)   | 0,75             | 30,73                         | 39,12                    | 3.952           | 134,68  | 0,47      | -           | 1,00           |
| HMF 45 T4 (A5:6) F400 (37,5º) | 0,75             | 29,91                         | 38,05                    | 4.149,98        | 136,63  | 0,52      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (20º)   | 0,75             | 37,76                         | 46,76                    | 3.770,14        | 132,89  | 0,38      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (25º)   | 0,75             | 37,26                         | 45,81                    | 4.193,11        | 140,93  | 0,45      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (27,5º) | 0,75             | 36,54                         | 44,65                    | 4.599,56        | 148,96  | 0,52      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (30º)   | 0,75             | 36,12                         | 44,06                    | 4.762,14        | 152,40  | 0,56      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (32,5º) | 0,75             | 35,23                         | 42,84                    | 5.098,88        | 157,99  | 0,63      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (35º)   | 0,75             | 34,18                         | 41,48                    | 5.440,40        | 162,59  | 0,70      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (37,5º) | 0,75             | 32,81                         | 39,86                    | 5.744,24        | 162,46  | 0,77      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (40º)   | 0,75             | 33,07                         | 39,86                    | 6.120,76        | 160,65  | 0,84      | -           | 1,00           |
| HMF 50 T4 (A5:6) F400 (42,5º) | 0,75             | 32,06                         | 38,72                    | 6.549,62        | 153,43  | 0,89      | -           | 1,00           |
| HMF 56 T4 (A5:6) F400 (20º)   | 0,75             | 45,60                         | 54,38                    | 4.478,93        | 148,81  | 0,41      | -           | 1,00           |
| HMF 56 T4 (A5:6) F400 (25º)   | 0,75             | 48,78                         | 57,04                    | 5.808,19        | 148,73  | 0,50      | -           | 1,00           |
| HMF 56 T4 (A5:6) F400 (30º)   | 0,75             | 49,96                         | 57,74                    | 6.778,11        | 152,82  | 0,59      | -           | 1,00           |
| HMF 56 T4 (A5:6) F400 (35º)   | 0,75             | 46,99                         | 54,14                    | 7.876,22        | 160,17  | 0,74      | -           | 1,00           |
| HMF 56 T4 (A5:6) F400 (40º)   | 1,10             | 38,65                         | 44,74                    | 9.048,55        | 169,98  | 1,09      | -           | 1,00           |
| HMF 56 T4 (A5:6) F400 (45º)   | 1,50             | 34,52                         | 40,02                    | 9.736,74        | 173,85  | 1,35      | -           | 1,00           |
| HMF 63 T4 (A5:6) F400 (20º)   | 0,75             | 58,53                         | 66,55                    | 6.355,92        | 174,52  | 0,54      | -           | 1,00           |
| HMF 63 T4 (A5:6) F400 (25º)   | 0,75             | 56,44                         | 63,66                    | 7.725,21        | 182,76  | 0,72      | -           | 1,00           |
| HMF 63 T4 (A5:6) F400 (30º)   | 1,10             | 49,58                         | 55,52                    | 9.455,48        | 213,97  | 1,15      | -           | 1,00           |

| Model                       | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|-----------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                             |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 63 T4 (A5:6) F400 (35º) | 1,50             | 45,82                         | 51,18                    | 10.626,06       | 219,74  | 1,43      | -           | 1,00           |
| HMF 63 T4 (A5:6) F400 (40º) | 2,20             | 42,39                         | 47,13                    | 12.399,99       | 220,92  | 1,79      | -           | 1,00           |
| HMF 63 T4 (A5:6) F400 (45º) | 2,20             | 37,31                         | 41,55                    | 13.888,41       | 205,06  | 2,14      | -           | 1,00           |
| HMF 71 T4 (A5:6) F400 (20º) | 0,75             | 57,24                         | 64,21                    | 8.318,90        | 190,43  | 0,79      | -           | 1,00           |
| HMF 71 T4 (A5:6) F400 (25º) | 1,10             | 51,11                         | 56,91                    | 10.347,46       | 210,19  | 1,21      | -           | 1,00           |
| HMF 71 T4 (A5:6) F400 (30º) | 1,50             | 49,69                         | 54,68                    | 12.411,49       | 229,67  | 1,63      | -           | 1,00           |
| HMF 71 T4 (A5:6) F400 (35º) | 2,20             | 45,76                         | 49,92                    | 14.677,49       | 244,74  | 2,21      | -           | 1,00           |
| HMF 71 T4 (A5:6) F400 (40º) | 3                | 42,05                         | 45,76                    | 16.394,17       | 241,08  | 2,60      | -           | 1,00           |
| HMF 71 T4 (A5:6) F400 (45º) | 3                | 36,26                         | 39,41                    | 18.371,79       | 226,54  | 3,20      | -           | 1,00           |
| HMF 80 T4 (A5:6) F400 (20º) | 2,20             | 50,90                         | 56,72                    | 9.680,70        | 227,70  | 1,21      | -           | 1,00           |
| HMF 80 T4 (A5:6) F400 (25º) | 2,20             | 53,20                         | 58,28                    | 12.281,11       | 243,37  | 1,58      | -           | 1,00           |
| HMF 80 T4 (A5:6) F400 (30º) | 2,20             | 56,94                         | 60,89                    | 17.140,62       | 282,45  | 2,38      | -           | 1,00           |
| HMF 80 T4 (A5:6) F400 (35º) | 3                | 50,44                         | 53,66                    | 19.751,78       | 286,67  | 3,11      | -           | 1,00           |
| HMF 80 T4 (A5:6) F400 (40º) | 4                | 47,95                         | 50,57                    | 22.365,43       | 298,91  | 3,87      | -           | 1,00           |
| HMF 80 T4 (A5:6) F400 (45º) | 4                | 40,28                         | 42,28                    | 25.392,14       | 275,70  | 4,85      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (20º) | 3                | 48,09                         | 51,85                    | 15.955,78       | 277,88  | 2,56      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (22º) | 3                | 52,40                         | 55,68                    | 17.468,42       | 328,17  | 3,04      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (24º) | 4                | 51,41                         | 54,28                    | 18.884,96       | 346,57  | 3,54      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (26º) | 4                | 49,81                         | 52,26                    | 20.381,08       | 362,27  | 4,13      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (28º) | 5,50             | 48,96                         | 51,04                    | 21.823,74       | 380,31  | 4,72      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (30º) | 5,50             | 47,76                         | 49,47                    | 23.214,28       | 399     | 5,40      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (32º) | 5,50             | 46,18                         | 47,67                    | 24.413,97       | 398,02  | 5,84      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (34º) | 7,50             | 45,22                         | 46,53                    | 25.666,02       | 396,98  | 6,24      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (36º) | 7,50             | 43,09                         | 44,16                    | 27.097,43       | 393,25  | 6,82      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (38º) | 7,50             | 40,56                         | 41,36                    | 28.643,25       | 388,02  | 7,53      | -           | 1,00           |
| HMF 90 T4 (A3:4) F400 (40º) | 11               | 39,80                         | 40,36                    | 30.598,14       | 379,44  | 8,22      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (20º) | 4                | 45,66                         | 47,95                    | 18.691,31       | 366,04  | 4,36      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (22º) | 5,50             | 50,85                         | 52,75                    | 20.492,72       | 434,30  | 5,04      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (24º) | 5,50             | 49,94                         | 51,43                    | 22.351,51       | 455,04  | 5,85      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (26º) | 7,50             | 49,93                         | 51,08                    | 24.309,22       | 475,44  | 6,64      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (28º) | 7,50             | 48,96                         | 49,73                    | 26.219,52       | 496,13  | 7,60      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (30º) | 11               | 48,58                         | 49,03                    | 28.118,79       | 518,15  | 8,54      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (32º) | 11               | 47,05                         | 47,23                    | 29.635,83       | 527,28  | 9,42      | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (34º) | 11               | 45,31                         | 45,37                    | 31.030,42       | 536,47  | 10,36     | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (36º) | 11               | 44,02                         | 44,01                    | 32.403,99       | 548,99  | 11,32     | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (38º) | 15               | 43,36                         | 43,29                    | 33.748,52       | 564,61  | 12,17     | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (40º) | 15               | 41,87                         | 41,74                    | 34.989,69       | 579,72  | 13,30     | -           | 1,00           |
| HMF 90 T4 (A3:8) F400 (42º) | 15               | 40,32                         | 40,11                    | 36.672,46       | 582,67  | 14,53     | -           | 1,00           |

| Model                        | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                              |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 100 T4 (A3:4) F400 (20º) | 5,50             | 54,31                         | 56,80                    | 22.194,39       | 356,83  | 4,07      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (22º) | 5,50             | 59,38                         | 61,51                    | 23.962,35       | 411,40  | 4,63      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (24º) | 5,50             | 57,70                         | 59,48                    | 25.849,24       | 421,62  | 5,26      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (26º) | 5,50             | 56,12                         | 57,55                    | 27.859,73       | 431,55  | 5,97      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (28º) | 7,50             | 55,38                         | 56,52                    | 29.732,15       | 443,68  | 6,63      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (30º) | 7,50             | 53,61                         | 54,44                    | 31.667,92       | 453,69  | 7,46      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (32º) | 11               | 52,21                         | 52,78                    | 33.359,85       | 461,34  | 8,19      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (34º) | 11               | 50,33                         | 50,62                    | 35.182,49       | 468,19  | 9,07      | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (36º) | 11               | 47,95                         | 48,03                    | 37.414,86       | 466,31  | 10,04     | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (38º) | 11               | 46,64                         | 46,64                    | 40.156,68       | 457,72  | 11,10     | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (40º) | 15               | 45,09                         | 45,02                    | 42.939,43       | 451,39  | 12,17     | -           | 1,00           |
| HMF 100 T4 (A3:4) F400 (42º) | 15               | 40,34                         | 40,19                    | 47.442,20       | 410,21  | 13,47     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (20º) | 7,50             | 53,05                         | 53,85                    | 26.682,88       | 528,77  | 7,53      | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (22º) | 11               | 59,14                         | 59,67                    | 28.932,88       | 598,16  | 8,30      | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (24º) | 11               | 57,84                         | 58,08                    | 31.096,46       | 605,57  | 9,24      | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (26º) | 11               | 56,33                         | 56,39                    | 33.251,27       | 615,16  | 10,31     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (28º) | 11               | 54,74                         | 54,72                    | 35.417,64       | 622,91  | 11,47     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (30º) | 15               | 53,79                         | 53,70                    | 37.563,11       | 630,92  | 12,57     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (32º) | 15               | 52,25                         | 52,07                    | 39.660,55       | 649,91  | 13,96     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (34º) | 15               | 50,59                         | 50,33                    | 41.700,32       | 668,77  | 15,50     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (36º) | 18,50            | 49,21                         | 48,88                    | 43.871,45       | 686,20  | 17,08     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (38º) | 18,50            | 47,78                         | 47,37                    | 45.992,03       | 703,90  | 18,77     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (40º) | 22               | 46,26                         | 45,77                    | 48.308          | 719,29  | 20,65     | -           | 1,00           |
| HMF 100 T4 (A3:8) F400 (42º) | 22               | 44,22                         | 43,67                    | 51.053,71       | 712,96  | 22,68     | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (20º) | 7,50             | 56,89                         | 58,67                    | 18.300          | 572,72  | 5,27      | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (22º) | 7,50             | 58,51                         | 59,69                    | 30.542,16       | 455,36  | 6,54      | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (24º) | 7,50             | 57,69                         | 58,55                    | 34.380,35       | 445,89  | 7,39      | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (26º) | 11               | 57,59                         | 58,16                    | 37.870,79       | 447,18  | 8,20      | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (28º) | 11               | 56,91                         | 57,18                    | 40.862,52       | 458,02  | 9,16      | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (30º) | 11               | 56,25                         | 56,32                    | 43.399,71       | 474,39  | 10,17     | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (32º) | 11               | 54,48                         | 54,48                    | 45.916,32       | 481,99  | 11,26     | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (34º) | 15               | 52,65                         | 52,56                    | 48.439,72       | 490,42  | 12,47     | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (36º) | 15               | 49,58                         | 49,41                    | 51.224,50       | 485,51  | 13,82     | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (38º) | 15               | 47,48                         | 47,23                    | 57.078,40       | 451,12  | 15,27     | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (40º) | 18,50            | 44,66                         | 44,35                    | 60.435,65       | 436,73  | 16,64     | -           | 1,00           |
| HMF 112 T4 (A3:4) F400 (42º) | 18,50            | 38,44                         | 38,05                    | 67.000          | 378,92  | 18,28     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (20º) | 11               | 57,06                         | 57,12                    | 32.770,46       | 642,99  | 10,29     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (22º) | 11               | 62,14                         | 62,13                    | 36.629,30       | 686,10  | 11,28     | -           | 1,00           |

| Model                        | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                              |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 112 T4 (A3:8) F400 (24º) | 15               | 61,81                         | 61,72                    | 40.603,20       | 674,28  | 12,36     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (26º) | 15               | 60,50                         | 60,33                    | 44.666,32       | 665,08  | 13,76     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (28º) | 15               | 59,19                         | 58,94                    | 48.542,97       | 663,39  | 15,30     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (30º) | 18,50            | 58,45                         | 58,13                    | 52.209,90       | 667,35  | 16,84     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (32º) | 18,50            | 56,39                         | 55,97                    | 55.017,35       | 695,59  | 18,97     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (34º) | 22               | 54,48                         | 53,97                    | 58.008,26       | 720,74  | 21,27     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (36º) | 22               | 52,76                         | 52,18                    | 60.935,16       | 734,95  | 23,37     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (38º) | 30               | 51,41                         | 50,78                    | 63.739,94       | 739,44  | 25,08     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (40º) | 30               | 51                            | 50,31                    | 66.443,30       | 746,01  | 27,25     | -           | 1,00           |
| HMF 112 T4 (A3:8) F400 (42º) | 30               | 48,22                         | 47,45                    | 72.330,57       | 711,69  | 29,92     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (20º) | 11               | 57,35                         | 57,78                    | 24.700          | 700,21  | 8,63      | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (22º) | 11               | 57,36                         | 57,39                    | 41.357,73       | 540,18  | 10,72     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (24º) | 15               | 56,97                         | 56,91                    | 46.668,70       | 526,27  | 11,99     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (26º) | 15               | 56,50                         | 56,35                    | 51.229,46       | 530,95  | 13,42     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (28º) | 15               | 55,59                         | 55,35                    | 55.317,73       | 543,13  | 15,05     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (30º) | 18,50            | 55,35                         | 55,04                    | 58.653,69       | 563,55  | 16,59     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (32º) | 18,50            | 53,74                         | 53,35                    | 62.010,38       | 573,01  | 18,33     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (34º) | 22               | 51,46                         | 50,98                    | 65.637,51       | 581,45  | 20,49     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (36º) | 22               | 48,46                         | 47,91                    | 69.151,38       | 577,59  | 22,70     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (38º) | 30               | 46,75                         | 46,12                    | 77.027,17       | 536,30  | 24,86     | -           | 1,00           |
| HMF 125 T4 (A3:4) F400 (40º) | 30               | 43,73                         | 43,03                    | 81.637,62       | 519,11  | 27,28     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (20º) | 18,50            | 57,88                         | 57,56                    | 44.261,47       | 787,70  | 16,78     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (22º) | 18,50            | 61,26                         | 60,87                    | 49.676,80       | 811,37  | 18,33     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (24º) | 22               | 60,36                         | 59,89                    | 54.991,48       | 798,35  | 20,32     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (26º) | 22               | 59,09                         | 58,54                    | 60.245,29       | 792,18  | 22,60     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (28º) | 30               | 58,26                         | 57,63                    | 65.458,88       | 790,73  | 24,97     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (30º) | 30               | 57,12                         | 56,41                    | 70.166,20       | 798,20  | 27,60     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (32º) | 30               | 55,32                         | 54,51                    | 74.313,29       | 828,18  | 31,09     | 50Hz        | 1,00           |
| HMF 125 T4 (A3:8) F400 (34º) | 37               | 53,53                         | 52,65                    | 78.065,57       | 858,03  | 34,65     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (36º) | 37               | 51,98                         | 51,02                    | 82.436          | 873,12  | 38,14     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (38º) | 45               | 50,50                         | 49,48                    | 86.364,05       | 877,23  | 41,14     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (40º) | 45               | 49,94                         | 48,86                    | 89.637,10       | 885,91  | 44,66     | -           | 1,00           |
| HMF 125 T4 (A3:8) F400 (42º) | 45               | 47,15                         | 45,99                    | 97.487,97       | 845,08  | 49,03     | -           | 1,00           |

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| Model                       | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|-----------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                             |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 56 T6 (A5:6) F400 (20º) | 0,75             | 30,74                         | 41,79                    | 2.985,99        | 66,14   | 0,18      | -           | 1,00           |
| HMF 56 T6 (A5:6) F400 (25º) | 0,75             | 34,88                         | 45,56                    | 3.872,15        | 66,10   | 0,21      | -           | 1,00           |
| HMF 56 T6 (A5:6) F400 (30º) | 0,75             | 37,52                         | 47,86                    | 4.518,74        | 67,92   | 0,23      | -           | 1,00           |
| HMF 56 T6 (A5:6) F400 (35º) | 0,75             | 37,62                         | 47,49                    | 5.250,82        | 71,19   | 0,28      | -           | 1,00           |
| HMF 56 T6 (A5:6) F400 (40º) | 0,75             | 33,18                         | 42,19                    | 6.032,36        | 75,54   | 0,38      | -           | 1,00           |
| HMF 56 T6 (A5:6) F400 (45º) | 0,75             | 30,38                         | 38,86                    | 6.491,16        | 77,27   | 0,46      | -           | 1,00           |
| HMF 63 T6 (A5:6) F400 (20º) | 0,75             | 42,90                         | 53,41                    | 4.237,23        | 77,56   | 0,22      | -           | 1,00           |
| HMF 63 T6 (A5:6) F400 (25º) | 0,75             | 44,67                         | 54,61                    | 5.150,08        | 81,23   | 0,27      | -           | 1,00           |
| HMF 63 T6 (A5:6) F400 (30º) | 0,75             | 42,92                         | 51,80                    | 6.303,64        | 95,10   | 0,39      | -           | 1,00           |
| HMF 63 T6 (A5:6) F400 (35º) | 0,75             | 40,52                         | 48,88                    | 7.084,04        | 97,66   | 0,48      | -           | 1,00           |
| HMF 63 T6 (A5:6) F400 (40º) | 0,75             | 37,24                         | 44,97                    | 8.267,83        | 98,18   | 0,60      | -           | 1,00           |
| HMF 63 T6 (A5:6) F400 (45º) | 0,75             | 33,26                         | 40,52                    | 9.258,93        | 91,14   | 0,71      | -           | 1,00           |
| HMF 71 T6 (A5:6) F400 (20º) | 0,75             | 46,42                         | 56,16                    | 5.545,82        | 84,64   | 0,29      | -           | 1,00           |
| HMF 71 T6 (A5:6) F400 (25º) | 0,75             | 44,63                         | 53,40                    | 6.898,31        | 93,42   | 0,41      | -           | 1,00           |
| HMF 71 T6 (A5:6) F400 (30º) | 0,75             | 44,66                         | 52,69                    | 8.274,35        | 102,07  | 0,54      | -           | 1,00           |
| HMF 71 T6 (A5:6) F400 (35º) | 0,75             | 40,87                         | 48,06                    | 9.784,98        | 108,77  | 0,73      | -           | 1,00           |
| HMF 71 T6 (A5:6) F400 (40º) | 0,75             | 37,68                         | 44,42                    | 10.928,58       | 107,15  | 0,86      | -           | 1,00           |
| HMF 71 T6 (A5:6) F400 (45º) | 0,75             | 32,30                         | 38,46                    | 12.247,88       | 100,69  | 1,06      | -           | 1,00           |
| HMF 80 T6 (A5:6) F400 (20º) | 0,75             | 43,60                         | 52,33                    | 6.453,80        | 101,20  | 0,42      | -           | 1,00           |
| HMF 80 T6 (A5:6) F400 (25º) | 0,75             | 46,30                         | 54,33                    | 8.187,39        | 108,16  | 0,54      | -           | 1,00           |
| HMF 80 T6 (A5:6) F400 (30º) | 0,75             | 51,10                         | 58,09                    | 11.446,42       | 125,31  | 0,78      | -           | 1,00           |
| HMF 80 T6 (A5:6) F400 (35º) | 1,10             | 46,50                         | 52,83                    | 13.171,67       | 127,37  | 1         | -           | 1,00           |
| HMF 80 T6 (A5:6) F400 (40º) | 1,10             | 43,85                         | 49,56                    | 14.924,27       | 132,73  | 1,25      | -           | 1,00           |
| HMF 80 T6 (A5:6) F400 (45º) | 1,50             | 37,85                         | 43,02                    | 16.929,39       | 122,52  | 1,53      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (20º) | 1,50             | 43,17                         | 50,20                    | 10.372,34       | 115,88  | 0,77      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (22º) | 1,50             | 48,09                         | 54,71                    | 11.334,84       | 137,59  | 0,90      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (24º) | 1,50             | 47,35                         | 53,56                    | 12.281,93       | 144,82  | 1,05      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (26º) | 1,50             | 46,38                         | 52,19                    | 13.207,65       | 152,08  | 1,21      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (28º) | 1,50             | 45,28                         | 50,72                    | 14.055,75       | 160,37  | 1,39      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (30º) | 1,50             | 44,07                         | 49,13                    | 15.018,14       | 167,35  | 1,59      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (32º) | 1,50             | 42,45                         | 47,29                    | 15.824,99       | 166,38  | 1,72      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (34º) | 2,20             | 42,12                         | 46,81                    | 16.659,62       | 166,43  | 1,82      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (36º) | 2,20             | 40,22                         | 44,67                    | 17.612          | 164,58  | 1,99      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (38º) | 2,20             | 37,96                         | 42,15                    | 18.587,23       | 162,78  | 2,19      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (40º) | 2,20             | 37,01                         | 40,92                    | 19.857,45       | 159,96  | 2,42      | -           | 1,00           |
| HMF 90 T6 (A3:4) F400 (42º) | 3                | 34,55                         | 38,25                    | 21.820,91       | 147,55  | 2,61      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (20º) | 1,50             | 42,52                         | 48,20                    | 12.101,08       | 153,60  | 1,27      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (22º) | 1,50             | 47,13                         | 52,39                    | 13.303,16       | 181,23  | 1,48      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (24º) | 1,50             | 46,19                         | 51,03                    | 14.534,86       | 190,08  | 1,72      | -           | 1,00           |



| Model                        | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                              |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 90 T6 (A3:8) F400 (26º)  | 2,20             | 46,39                         | 50,92                    | 15.689,43       | 200,22  | 1,93      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (28º)  | 2,20             | 45,78                         | 49,93                    | 16.980,47       | 208,34  | 2,21      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (30º)  | 2,20             | 44,88                         | 48,68                    | 18.213,61       | 216,99  | 2,51      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (32º)  | 3                | 44,24                         | 47,82                    | 19.215,68       | 221,40  | 2,73      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (34º)  | 3                | 42,60                         | 45,92                    | 20.092,17       | 226,04  | 3         | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (36º)  | 3                | 41,35                         | 44,43                    | 20.986,18       | 230,56  | 3,28      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (38º)  | 4                | 40,75                         | 43,64                    | 21.866,75       | 236,59  | 3,52      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (40º)  | 4                | 39,47                         | 42,11                    | 22.653,78       | 243,30  | 3,84      | -           | 1,00           |
| HMF 90 T6 (A3:8) F400 (42º)  | 4                | 37,91                         | 40,31                    | 23.711,75       | 245,06  | 4,20      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (20º) | 3                | 49,04                         | 54,83                    | 14.394,01       | 149,20  | 1,22      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (22º) | 3                | 54,34                         | 59,81                    | 15.545,02       | 171,96  | 1,37      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (24º) | 3                | 53,71                         | 58,86                    | 16.770,57       | 176,86  | 1,54      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (26º) | 3                | 52,77                         | 57,61                    | 18.003,41       | 181,34  | 1,72      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (28º) | 3                | 51,84                         | 56,37                    | 19.350,37       | 185,52  | 1,93      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (30º) | 3                | 50,58                         | 54,82                    | 20.487,93       | 190,81  | 2,15      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (32º) | 3                | 48,92                         | 52,88                    | 21.706,82       | 192,99  | 2,38      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (34º) | 3                | 47,18                         | 50,86                    | 22.815,46       | 196,23  | 2,63      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (36º) | 3                | 45,04                         | 48,45                    | 24.161,47       | 196,20  | 2,90      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (38º) | 3                | 43,56                         | 46,69                    | 25.903,29       | 192,63  | 3,22      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (40º) | 4                | 42,51                         | 45,40                    | 27.969,69       | 188,66  | 3,52      | -           | 1,00           |
| HMF 100 T6 (A3:4) F400 (42º) | 4                | 37,83                         | 40,44                    | 30.782,97       | 171,52  | 3,89      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (20º) | 3                | 50,03                         | 54,24                    | 17.337,10       | 220,98  | 2,17      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (22º) | 3                | 55,42                         | 59,35                    | 18.711,45       | 252,11  | 2,41      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (24º) | 3                | 54,40                         | 58,04                    | 20.204,35       | 253,87  | 2,68      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (26º) | 3                | 52,85                         | 56,18                    | 21.565,89       | 257,65  | 2,99      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (28º) | 3                | 51,34                         | 54,38                    | 22.932,51       | 261,44  | 3,32      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (30º) | 4                | 50,61                         | 53,41                    | 24.326,84       | 264,59  | 3,63      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (32º) | 4                | 49,16                         | 51,67                    | 25.593,12       | 273,88  | 4,03      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (34º) | 4                | 47,66                         | 49,88                    | 27.052,34       | 280,58  | 4,48      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (36º) | 5,50             | 46,68                         | 48,66                    | 28.448,08       | 287,70  | 4,90      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (38º) | 5,50             | 45,25                         | 46,97                    | 29.817,81       | 295,29  | 5,39      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (40º) | 5,50             | 43,85                         | 45,30                    | 31.376,77       | 301,29  | 5,93      | -           | 1,00           |
| HMF 100 T6 (A3:8) F400 (42º) | 7,50             | 42,58                         | 43,82                    | 33.124,25       | 298,63  | 6,40      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (20º) | 3                | 52,32                         | 57,44                    | 11.800          | 241,17  | 1,56      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (22º) | 3                | 54,82                         | 59,39                    | 19.562,18       | 193,94  | 1,90      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (24º) | 3                | 54,38                         | 58,64                    | 22.280,91       | 187,04  | 2,13      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (26º) | 3                | 54,06                         | 58,02                    | 24.525,18       | 187,91  | 2,38      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (28º) | 3                | 53,39                         | 57,04                    | 26.491,83       | 192,02  | 2,65      | -           | 1,00           |

| Model                        | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                              |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 112 T6 (A3:4) F400 (30º) | 3                | 52,78                         | 56,15                    | 28.158,01       | 198,68  | 2,94      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (32º) | 3                | 51,08                         | 54,17                    | 29.720,12       | 202,34  | 3,26      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (34º) | 4                | 49,71                         | 52,54                    | 31.370,35       | 206,44  | 3,60      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (36º) | 4                | 46,68                         | 49,22                    | 33.191,85       | 203,79  | 3,99      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (38º) | 4                | 44,76                         | 47,03                    | 36.937,67       | 189,69  | 4,41      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (40º) | 5,50             | 42,32                         | 44,36                    | 39.054,54       | 183,68  | 4,77      | -           | 1,00           |
| HMF 112 T6 (A3:4) F400 (42º) | 5,50             | 36,69                         | 38,49                    | 43.100          | 160,98  | 5,23      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (20º) | 3                | 53,70                         | 57,04                    | 21.268,06       | 270,25  | 2,98      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (22º) | 3                | 58,40                         | 61,49                    | 23.817,12       | 287,07  | 3,26      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (24º) | 4                | 58,14                         | 60,98                    | 26.404,43       | 281,19  | 3,57      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (26º) | 4                | 56,91                         | 59,46                    | 28.917,33       | 279,32  | 3,98      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (28º) | 4                | 55,77                         | 58,02                    | 31.510,82       | 277,87  | 4,42      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (30º) | 5,50             | 55,35                         | 57,36                    | 33.766,81       | 280,75  | 4,83      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (32º) | 5,50             | 53,56                         | 55,25                    | 35.671,31       | 292,31  | 5,44      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (34º) | 5,50             | 51,64                         | 53,01                    | 37.578,51       | 302,47  | 6,10      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (36º) | 7,50             | 50,81                         | 51,97                    | 39.389,52       | 308,78  | 6,59      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (38º) | 7,50             | 50,36                         | 51,32                    | 41.151,83       | 311,60  | 7,12      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (40º) | 7,50             | 48,78                         | 49,51                    | 43.015,42       | 313,12  | 7,74      | -           | 1,00           |
| HMF 112 T6 (A3:8) F400 (42º) | 11               | 46,47                         | 46,95                    | 46.814,99       | 299,03  | 8,45      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (20º) | 3                | 53,80                         | 57,62                    | 16.000          | 294,06  | 2,50      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (22º) | 3                | 53,77                         | 57                       | 26.654,60       | 227,73  | 3,10      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (24º) | 4                | 53,78                         | 56,71                    | 30.129,23       | 222,05  | 3,46      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (26º) | 4                | 53,18                         | 55,80                    | 33.080,89       | 223,68  | 3,88      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (28º) | 4                | 52,38                         | 54,69                    | 35.846,93       | 227,96  | 4,34      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (30º) | 5,50             | 52,48                         | 54,54                    | 37.887,16       | 237,03  | 4,75      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (32º) | 5,50             | 50,91                         | 52,70                    | 40.142,76       | 240,63  | 5,26      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (34º) | 5,50             | 48,70                         | 50,17                    | 42.431,82       | 244,37  | 5,89      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (36º) | 7,50             | 46,72                         | 47,97                    | 44.903,02       | 241,95  | 6,40      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (38º) | 7,50             | 44,94                         | 45,92                    | 49.891,55       | 225,54  | 7,05      | -           | 1,00           |
| HMF 125 T6 (A3:4) F400 (40º) | 7,50             | 41,77                         | 42,48                    | 53.076,30       | 216,91  | 7,76      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (20º) | 5,50             | 54,82                         | 56,84                    | 28.716,26       | 329,81  | 4,81      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (22º) | 5,50             | 58,20                         | 59,98                    | 32.165,87       | 341,03  | 5,25      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (24º) | 5,50             | 57,14                         | 58,63                    | 35.561,95       | 335,93  | 5,84      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (26º) | 7,50             | 56,96                         | 58,22                    | 39.094,02       | 331,72  | 6,38      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (28º) | 7,50             | 55,88                         | 56,85                    | 42.485,61       | 331,26  | 7,08      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (30º) | 7,50             | 54,75                         | 55,44                    | 45.722,51       | 332,64  | 7,85      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (32º) | 11               | 53,25                         | 53,63                    | 48.156,13       | 347,56  | 8,78      | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (34º) | 11               | 51,48                         | 51,55                    | 50.671,24       | 360,10  | 9,81      | -           | 1,00           |

| Model                        | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                              |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 125 T6 (A3:8) F400 (36°) | 11               | 49,88                         | 49,91                    | 53.155,55       | 367,62  | 10,78     | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (38°) | 11               | 48,38                         | 48,35                    | 55.698,31       | 369,31  | 11,64     | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (40°) | 15               | 48,51                         | 48,42                    | 58.270,22       | 371,52  | 12,52     | -           | 1,00           |
| HMF 125 T6 (A3:8) F400 (42°) | 15               | 45,98                         | 45,82                    | 63.098,04       | 356,38  | 13,73     | -           | 1,00           |

## ERP / 4/6 poles

| Model                          | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|--------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                                |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 56 T4/T6 (A5:6) F400 (20°) | 0,55             | 35,58                         | 43,69                    | 4.478,93        | 148,81  | 0,52      | 4p          | 1,00           |
| HMF 56 T4/T6 (A5:6) F400 (25°) | 0,55             | 40,38                         | 48,12                    | 5.808,19        | 148,73  | 0,60      | 4p          | 1,00           |
| HMF 56 T4/T6 (A5:6) F400 (30°) | 0,55             | 43,72                         | 51,15                    | 6.778,11        | 152,82  | 0,67      | 4p          | 1,00           |
| HMF 56 T4/T6 (A5:6) F400 (35°) | 0,75             | 43,69                         | 50,64                    | 7.876,22        | 160,17  | 0,80      | 4p          | 1,00           |
| HMF 56 T4/T6 (A5:6) F400 (40°) | 1,10             | 39,35                         | 45,49                    | 9.048,55        | 169,98  | 1,07      | 4p          | 1,00           |
| HMF 56 T4/T6 (A5:6) F400 (45°) | 1,50             | 36,12                         | 41,74                    | 9.736,74        | 173,85  | 1,30      | 4p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (20°) | 0,55             | 28,83                         | 38,27                    | 4.233,38        | 77,40   | 0,32      | 6p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (25°) | 0,55             | 31,71                         | 40,73                    | 5.145,25        | 81,06   | 0,38      | 6p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (30°) | 0,55             | 34,05                         | 42,31                    | 6.297,59        | 94,90   | 0,49      | 6p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (35°) | 0,55             | 34,13                         | 42,03                    | 7.077,16        | 97,46   | 0,56      | 6p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (40°) | 0,55             | 33,90                         | 41,37                    | 8.258,25        | 97,99   | 0,66      | 6p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (45°) | 0,75             | 31,59                         | 38,72                    | 9.251,70        | 90,94   | 0,75      | 6p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (20°) | 0,55             | 49,79                         | 57,38                    | 6.355,92        | 174,52  | 0,63      | 4p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (25°) | 0,75             | 51,88                         | 58,89                    | 7.725,21        | 182,76  | 0,78      | 4p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (30°) | 1,10             | 51,18                         | 57,21                    | 9.455,48        | 213,97  | 1,11      | 4p          | 1,00           |
| HMF 63 T4/T6 (A5:6) F400 (35°) | 1,50             | 48,49                         | 54,01                    | 10.626,06       | 219,74  | 1,35      | 4p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (20°) | 0,55             | 33,60                         | 42,47                    | 5.540,62        | 84,46   | 0,40      | 6p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (25°) | 0,55             | 35,82                         | 44,01                    | 6.891,70        | 93,23   | 0,51      | 6p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (30°) | 0,55             | 38,99                         | 46,67                    | 8.266,29        | 101,87  | 0,61      | 6p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (35°) | 0,75             | 39,06                         | 46,13                    | 9.775,43        | 108,55  | 0,76      | 6p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (40°) | 0,75             | 37,66                         | 44,41                    | 10.918,36       | 106,93  | 0,86      | 6p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (45°) | 1,10             | 34,34                         | 40,68                    | 12.088,29       | 101,68  | 1         | 6p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (20°) | 0,75             | 53,95                         | 60,77                    | 8.318,90        | 190,43  | 0,84      | 4p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (25°) | 1,10             | 53,54                         | 59,48                    | 10.347,46       | 210,19  | 1,15      | 4p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (30°) | 1,50             | 54,60                         | 59,86                    | 12.411,49       | 229,67  | 1,48      | 4p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (40°) | 3                | 47,21                         | 51,24                    | 16.394,17       | 241,08  | 2,32      | 4p          | 1,00           |
| HMF 71 T4/T6 (A5:6) F400 (45°) | 3                | 43,21                         | 46,84                    | 18.214,87       | 228,47  | 2,68      | 4p          | 1,00           |

| Model                          | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|--------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                                |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 80 T4/T6 (A5:6) F400 (20º) | 1,10             | 34,14                         | 42,22                    | 6.447,53        | 101     | 0,53      | 6p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (25º) | 1,10             | 39,09                         | 46,69                    | 8.179,72        | 107,94  | 0,63      | 6p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (30º) | 1,10             | 48,76                         | 55,65                    | 11.439,11       | 125,01  | 0,82      | 6p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (35º) | 1,10             | 47,29                         | 53,68                    | 13.154,59       | 127,15  | 0,98      | 6p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (40º) | 1,10             | 47,80                         | 53,75                    | 14.895,72       | 132,58  | 1,15      | 6p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (45º) | 1,50             | 41,94                         | 47,39                    | 16.910,96       | 122,29  | 1,38      | 6p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (20º) | 1,10             | 52,45                         | 58,35                    | 9.680,70        | 227,70  | 1,17      | 4p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (25º) | 1,50             | 56,52                         | 61,78                    | 12.281,11       | 243,37  | 1,48      | 4p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (35º) | 3                | 59,63                         | 63,32                    | 19.751,78       | 286,67  | 2,63      | 4p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (40º) | 3                | 59,90                         | 63,13                    | 22.365,43       | 298,91  | 3,10      | 4p          | 1,00           |
| HMF 80 T4/T6 (A5:6) F400 (45º) | 3                | 53,77                         | 56,56                    | 25.392,14       | 275,70  | 3,63      | 4p          | 1,00           |
| HMF 90 T4/T6 (A3:4) F400 (40º) | 3                | 42,63                         | 46,72                    | 20.377,25       | 168,31  | 2,27      | 6p          | 1,00           |
| HMF 90 T4/T6 (A3:4) F400 (42º) | 3                | 40,83                         | 44,74                    | 22.191,46       | 158,21  | 2,42      | 6p          | 1,00           |
| HMF 90 T4/T6 (A3:4) F400 (20º) | 3                | 53,54                         | 57,60                    | 15.955,78       | 277,88  | 2,29      | 4p          | 1,00           |
| HMF 90 T4/T6 (A3:4) F400 (22º) | 3                | 61,43                         | 65,15                    | 17.468,42       | 328,17  | 2,59      | 4p          | 1,00           |
| HMF 90 T4/T6 (A3:4) F400 (24º) | 4,50             | 42,29                         | 44,63                    | 18.884,96       | 346,57  | 4,30      | 4p          | 1,00           |
| HMF 90 T4/T6 (A3:4) F400 (26º) | 4,50             | 42,36                         | 44,36                    | 20.381,08       | 362,27  | 4,85      | 4p          | 1,00           |
| HMF 90 T4/T6 (A3:4) F400 (28º) | 4,50             | 42,42                         | 44,11                    | 21.823,74       | 380,31  | 5,44      | 4p          | 1,00           |
| HMF 90 T4/T6 (A3:8) F400 (30º) | 3                | 52,22                         | 56,23                    | 18.733,52       | 229,74  | 2,33      | 6p          | 1,00           |
| HMF 90 T4/T6 (A3:8) F400 (32º) | 3                | 52,10                         | 55,92                    | 19.743,38       | 233,81  | 2,50      | 6p          | 1,00           |
| HMF 90 T4/T6 (A3:8) F400 (34º) | 3                | 51,65                         | 55,29                    | 20.671,05       | 237,90  | 2,67      | 6p          | 1,00           |
| HMF 90 T4/T6 (A3:8) F400 (20º) | 4,50             | 39,10                         | 40,99                    | 18.691,31       | 366,04  | 5,06      | 4p          | 1,00           |

## ERP / 4/8 poles

| Model                          | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|--------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                                |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 90 T4/T8 (A3:4) F400 (20º) | 2,80             | 29,95                         | 38,14                    | 7.977,89        | 69,47   | 0,51      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (22º) | 2,80             | 38,05                         | 46,18                    | 8.734,21        | 82,04   | 0,52      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (24º) | 2,80             | 42,25                         | 50,29                    | 9.442,48        | 86,64   | 0,54      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (26º) | 2,80             | 46,08                         | 54,02                    | 10.190,54       | 90,57   | 0,56      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (28º) | 2,80             | 49,77                         | 57,60                    | 10.911,87       | 95,08   | 0,58      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (30º) | 2,80             | 53,21                         | 60,91                    | 11.607,14       | 99,75   | 0,61      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (32º) | 2,80             | 54,19                         | 61,82                    | 12.206,99       | 99,50   | 0,62      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (34º) | 2,80             | 55,04                         | 62,59                    | 12.833,01       | 99,24   | 0,64      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (36º) | 2,80             | 55,44                         | 62,90                    | 13.548,72       | 98,31   | 0,66      | 8p          | 1,00           |

| Model                          | Motor power (kW) | Maximum efficiency point data |                          |                 |         |           |             |                |
|--------------------------------|------------------|-------------------------------|--------------------------|-----------------|---------|-----------|-------------|----------------|
|                                |                  | Max. efficiency (%)           | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| HMF 90 T4/T8 (A3:4) F400 (38°) | 2,80             | 55,41                         | 62,76                    | 14.321,62       | 97,01   | 0,69      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (40°) | 2,80             | 56,99                         | 64,23                    | 15.299,07       | 94,86   | 0,72      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (42°) | 2,80             | 55,92                         | 63,05                    | 16.653,43       | 89,21   | 0,75      | 8p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (20°) | 2,80             | 110,70                        | 116,75                   | 15.955,78       | 277,88  | 1,11      | 4p          | 1,00           |
| HMF 90 T4/T8 (A3:4) F400 (22°) | 2,80             | 130,30                        | 136,08                   | 17.468,42       | 328,17  | 1,22      | 4p          | 1,00           |