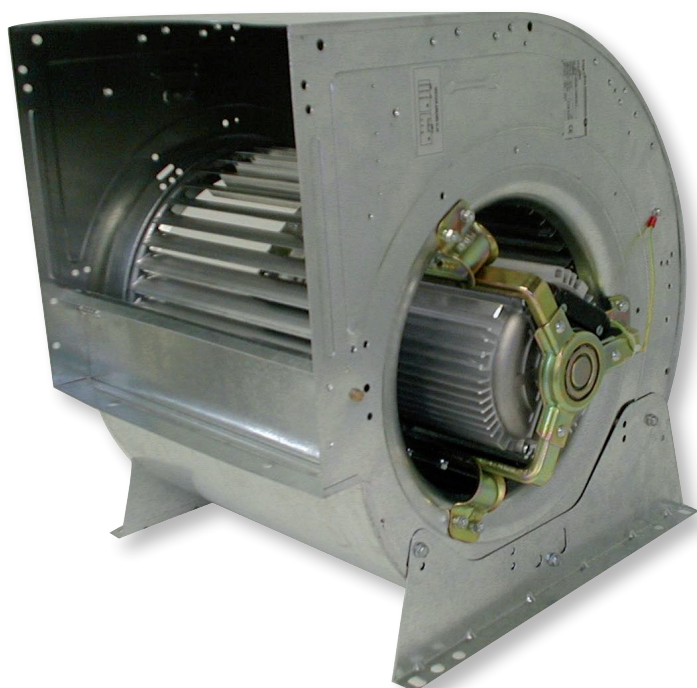




Range of double inlet direct driven low pressure centrifugal fans manufactured from galvanised sheet steel.

All the models are fitted with forward curved centrifugal impellers manufactured from galvanized sheet steel.

## Motors

Housing closed motors, IP44, class F, equipped with thermal protection and ball bearings greased for life.

Electrical supply:

4 or 6 pole depending on version.

Single phase 230V-50Hz (capacitor fitted on the fan housing).

Three phase 230/400V-50Hz.  
(See characteristics chart).

## On request

Housing open motors IP20, class F.

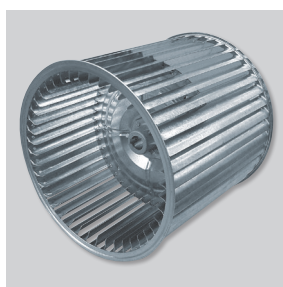
Coupling flange fitted at the fan outlet (B version).

Special version kitchen IP55, class F.  
Three phase motors suitable for frequency inverter control.



## Anti-vibration mounts

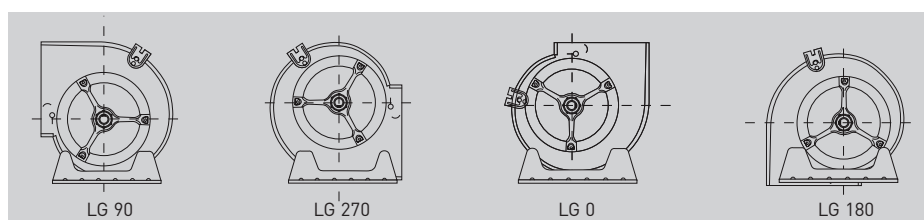
All motors are fitted with support including rubber antivibration mounts reducing the noise transmitted to the installation.



## Impeller dynamically balanced

Impeller dynamically balanced, according to ISO 1940 standard, providing vibration free operation.

## POSITIONS



Mounting feet (accessory) allow 4 positions of the inlet discharge.

### REFERENCE

| CBM | 9/9 | 373 | 6P | T | C | VR | K | B8 | MP | IP55 |
|-----|-----|-----|----|---|---|----|---|----|----|------|
| 1   | 2   | 3   | 4  | 5 | 6 | 7  | 8 | 9  | 10 | 11   |

- 1 - Product range.  
2 - 7/7, 9/7, 9/9, 10/8, 10/10, 12/9, 12/12, 15/15  
Wheel dimensions in inches.  
3 - Motor Power (W).  
4 - 4P, 6P: Number of pole.  
5 - Nothing: Single phase.  
T: Three phase.  
6 - C: Closed motor (IP44).  
RE: External Rotor Motor.  
Nothing: Open motor (IP20).  
7 - Nothing: 1 speed - motor.  
2V: fan with 2 speed motor.  
3V: fan with 3 speed motor.  
VR: Speed controllable motor by tension.  
EC-0-10V, EC-CK, EC-PK, EC-CK/DG:  
motor with electronic control.  
8 - Nothing: Standard CBM.  
K: CBM Reinforced cubic structure.  
9 - Nothing: Standard CBM.  
B10, B11, B5, B7, B8, B9, BE: CBM fitted  
with outlet coupling flange.  
The number indicates the fixing holes  
diameter.  
10 - Nothing: Product on individual packing.  
MP: Multi product palletizing.  
11 - IP rating.

### TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

| Model | Motor power (W) | Speed (r.p.m) | Capacitor (µF/V) | Maximum absorbed current (A) | Airflow (m³/h) | Maximum temperature (°C) | Sound pressure level* (dB(A)) | Weight (kg) | Speed controller |     |
|-------|-----------------|---------------|------------------|------------------------------|----------------|--------------------------|-------------------------------|-------------|------------------|-----|
|       |                 |               |                  |                              |                |                          |                               |             | REB              | RMB |

#### SINGLE PHASE

|                       |     |      |        |     |      |    |    |      |    |     |
|-----------------------|-----|------|--------|-----|------|----|----|------|----|-----|
| CBM-7/7 72 6P C VR    | 72  | 900  | 3/450  | 0,6 | 1080 | 50 | 51 | 6,7  | 1  | 1,5 |
| CBM-9/7 373 4P C VR   | 373 | 1400 | 10/450 | 3,8 | 2560 | 40 | 68 | 11,3 | 5  | 8   |
| CBM-9/9 373 4P C VR   | 373 | 1400 | 10/450 | 3,9 | 2900 | 40 | 68 | 12,4 | 5  | 8   |
| CBM-9/9 550 4P C VR   | 550 | 1400 | 25/450 | 3,9 | 3270 | 40 | 69 | 14   | 5  | 8   |
| CBM-10/8 550 4P C VR  | 550 | 1400 | 25/450 | 4,5 | 2750 | 40 | 66 | 15   | 5  | 8   |
| CBM-10/10 245 6P C VR | 245 | 900  | 8/450  | 3,1 | 3460 | 40 | 64 | 15,4 | 5  | 8   |
| CBM-10/10 550 4P C VR | 550 | 1400 | 25/450 | 4,5 | 3390 | 40 | 66 | 15,3 | 5  | 8   |
| CBM-12/9 736 6P C VR  | 736 | 900  | 20/450 | 5   | 4590 | 40 | 66 | 24,2 | 10 | 8   |
| CBM-12/12 736 6P C VR | 736 | 900  | 20/450 | 6   | 4960 | 40 | 67 | 26,5 | -  | -   |

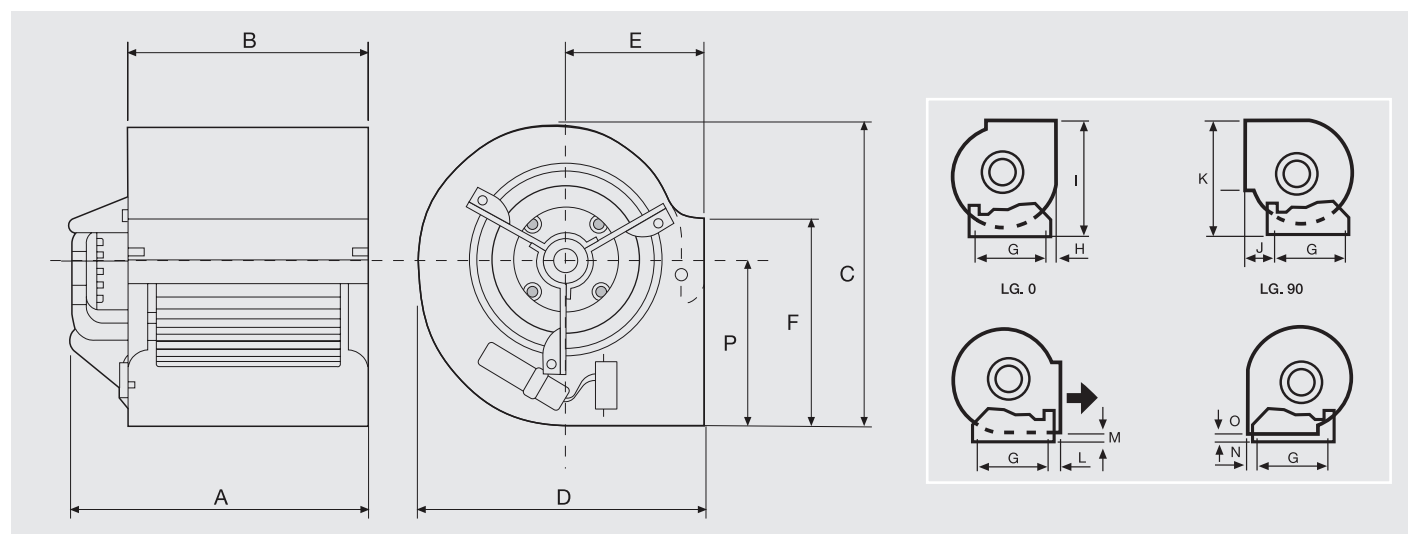
| Model | Motor power (W) | Speed (r.p.m.) | Maximum absorbed current |      | Airflow (m³/h) | Maximum temperature (°C) | Sound pressure level* (dB(A)) | Weight (kg) | Variable frequency inverter VTFM Electrical supply |        |
|-------|-----------------|----------------|--------------------------|------|----------------|--------------------------|-------------------------------|-------------|----------------------------------------------------|--------|
|       |                 |                | 230V                     | 400V |                |                          |                               |             | 1/230V                                             | 3/400V |

#### THREE PHASE

|                        |      |      |      |     |      |    |    |      |                |               |
|------------------------|------|------|------|-----|------|----|----|------|----------------|---------------|
| CBM-10/8 736 4PT C     | 736  | 1400 | 3,6  | 2,1 | 3480 | 40 | 71 | 20   | VTFM MONO 0,55 | VTFM TRI 0,75 |
| CBM-10/8 1500 4PT C    | 1500 | 1400 | 8,5  | 4,9 | 6560 | 50 | 82 | 20,5 | VTFM MONO 2,2  | VTFM TRI 2,2  |
| CBM-10/10 1500 4PT C   | 1500 | 1400 | 10,1 | 5,8 | 7850 | 40 | 81 | 22   | VTFM MONO 2,2  | VTFM TRI 2,2  |
| CBM-12/9 736 6PT C     | 736  | 900  | 4,7  | 2,7 | 5920 | 70 | 71 | 26,5 | VTFM MONO 0,75 | VTFM TRI 1,1  |
| CBM-12/9 1100 6PT C    | 1100 | 900  | 7,3  | 4,2 | 6680 | 40 | 74 | 26,5 | VTFM MONO 1,5  | VTFM TRI 1,5  |
| CBM-12/12 1100 6PT C   | 1100 | 900  | 8,5  | 4,9 | 8290 | 40 | 76 | 28,5 | VTFM MONO 2,2  | VTFM TRI 2,2  |
| CBM-15/15 2200 6PT C K | 2200 | 900  | 8,8  | 5,1 | 9100 | 40 | 72 | 43,2 | VTFM MONO 2,2  | VTFM TRI 2,2  |

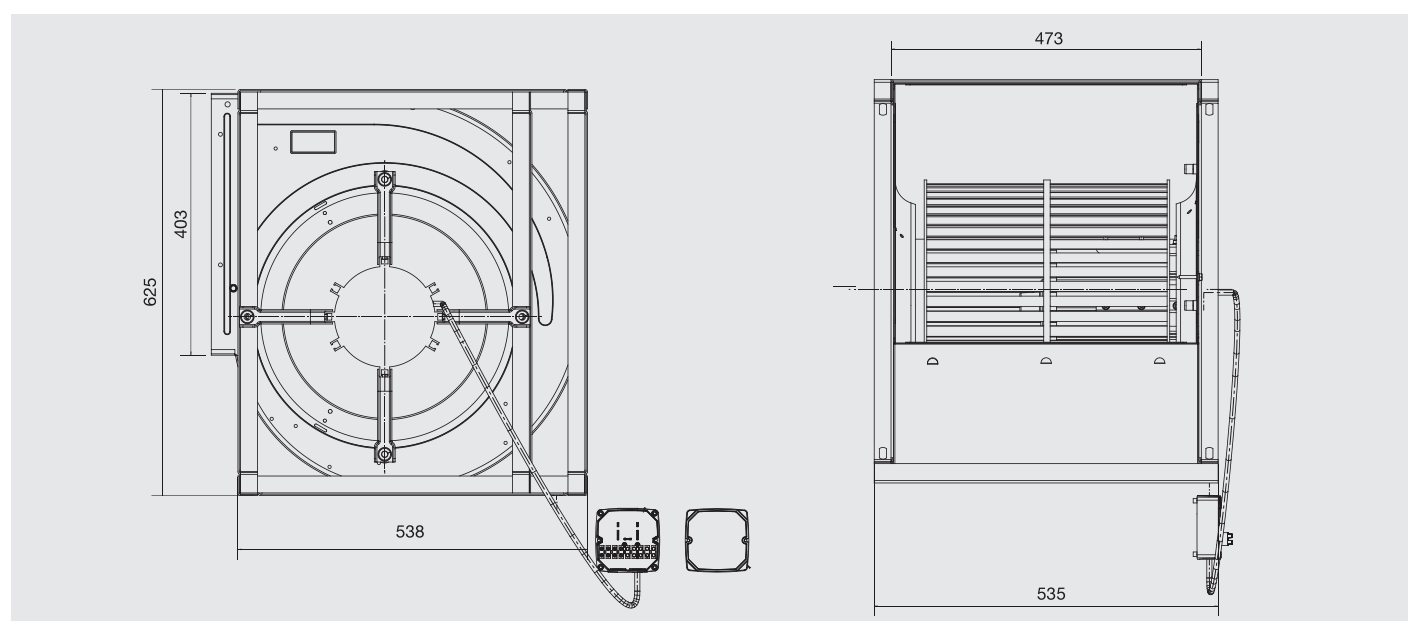
\* Sound pressure levels in dB(A), measured at 1,5 meters at the fan inlet side in free field.

DIMENSIONS (mm)

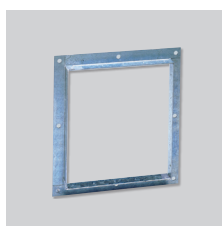


| Model                 | A   | B   | C   | D   | E   | F   | G   | H    | I     | J    | K     | L    | M    | N    | O   | P   |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-------|------|-------|------|------|------|-----|-----|
| CBM-7/7 72 6P C VR    | 270 | 233 | 327 | 308 | 145 | 207 | 225 | 47,6 | 314   | 57   | 333   | 28   | 16,4 | 8,6  | 6   | 187 |
| CBM-9/7 373 4P C VR   | 306 | 234 | 390 | 381 | 184 | 260 | 296 | 34,5 | 382   | 69   | 395,5 | 68,5 | 39   | 34,5 | 6   | 221 |
| CBM-9/9 373 4P C VR   | 348 | 300 | 390 | 381 | 184 | 260 | 296 | 34,5 | 382   | 69   | 395,5 | 68,5 | 39   | 34,5 | 6   | 221 |
| CBM-9/9 550 4P C VR   | 371 | 300 | 390 | 381 | 184 | 260 | 296 | 34,5 | 382   | 69   | 395,5 | 68,5 | 39   | 34,5 | 6   | 221 |
| CBM-10/8 550 4PC VR   | 357 | 267 | 443 | 423 | 200 | 288 | 339 | 39   | 427   | 67   | 451,5 | 67   | 40   | 39   | 8   | 249 |
| CBM-10/10 245 6P C VR | 377 | 333 | 443 | 423 | 200 | 288 | 339 | 39   | 427   | 67   | 451,5 | 67   | 40   | 39   | 8   | 249 |
| CBM-10/10 550 4P C VR | 388 | 333 | 443 | 423 | 200 | 288 | 339 | 39   | 427   | 67   | 451,5 | 67   | 40   | 39   | 8   | 249 |
| CBM-12/9 736 6P C VR  | 419 | 311 | 521 | 490 | 229 | 341 | 407 | 40,5 | 496,5 | 69,5 | 528,5 | 69,5 | 38,5 | 41,5 | 4,5 | 293 |
| CBM-12/12 736 6P C VR | 459 | 396 | 521 | 490 | 229 | 341 | 407 | 40,5 | 496,5 | 69,5 | 528,5 | 69,5 | 38,5 | 41,5 | 4,5 | 293 |
| CBM-10/8 736 4PT C    |     | 267 | 443 | 423 | 200 | 288 | 339 | 39   | 427   | 67   | 451,5 | 67   | 40   | 39   | 8   | 249 |
| CBM-10/8 1500 4PT C   | 401 | 267 | 443 | 423 | 200 | 288 | 339 | 39   | 427   | 67   | 451,5 | 67   | 40   | 39   | 8   | 249 |
| CBM-10/10 1500 4PT C  | 387 | 333 | 443 | 423 | 200 | 288 | 339 | 39   | 427   | 67   | 451,5 | 67   | 40   | 39   | 8   | 249 |
| CBM-12/9 736 6PT C    | 419 | 311 | 521 | 490 | 229 | 341 | 407 | 40,5 | 496,5 | 69,5 | 528,5 | 69,5 | 38,5 | 41,5 | 4,5 | 293 |
| CBM-12/9 1100 6PT C   | 416 | 311 | 521 | 490 | 229 | 341 | 407 | 40,5 | 496,5 | 69,5 | 528,5 | 69,5 | 38,5 | 41,5 | 4,5 | 293 |
| CBM-12/12 1100 6PT C  | 460 | 396 | 521 | 490 | 229 | 341 | 407 | 40,5 | 496,5 | 69,5 | 528,5 | 69,5 | 38,5 | 41,5 | 4,5 | 293 |

DIMENSIONS CBM-T-15/15 (mm)



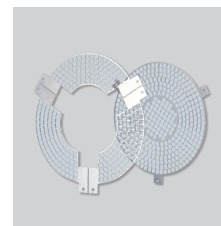
### MOUNTING ACCESSORIES



Outlet flange CBM



Mounting feet

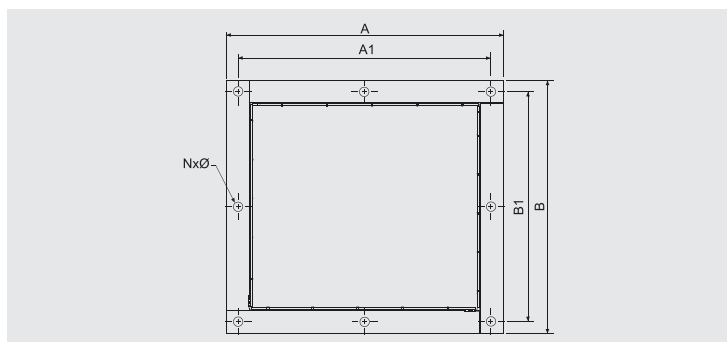


Inlet guard

| Model     | Outlet flange CBM        | Mounting feet             | Inlet guard |
|-----------|--------------------------|---------------------------|-------------|
| CBM-7/7   | BRIDA DESCARGA CBM-7/7   | PIE SOPORTE CBP/CBM 7/7   | DEF-CBM-7   |
| CBM-9/7   | BRIDA DESCARGA CBM-9/7   | PIE SOPORTE CBP/CBM 9/9   | DEF-CBM-9   |
| CBM-9/9   | BRIDA DESCARGA CBM-9/9   | PIE SOPORTE CBP/CBM 9/9   | DEF-CBM-9   |
| CBM-10/8  | BRIDA DESCARGA CBM-10/8  | PIE SOPORTE CBP/CBM 10/10 | DEF-CBM-10  |
| CBM-10/10 | BRIDA DESCARGA CBM-10/10 | PIE SOPORTE CBP/CBM 10/10 | DEF-CBM-10  |
| CBM-12/9  | BRIDA DESCARGA CBM-12/9  | PIE SOPORTE CBP/CBM 12/12 | DEF-CBM-12  |
| CBM-12/12 | BRIDA DESCARGA CBM-12/12 | PIE SOPORTE CBP/CBM 12/12 | DEF-CBM-12  |
| CBM-15/15 | -                        | -                         | DEF-CBM-15  |

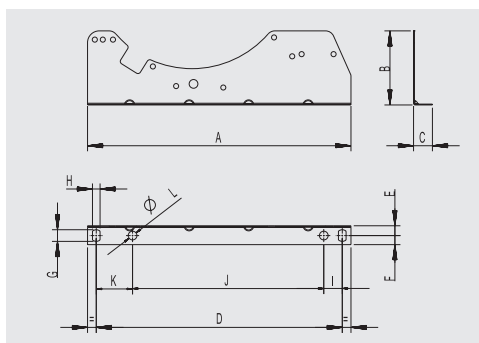
### ACCESSORIES DIMENSIONS (mm)

#### Outlet flange CBM



| Model                    | A     | A1  | B     | B1  | NxØ (mm) |
|--------------------------|-------|-----|-------|-----|----------|
| BRIDA DESCARGA CBM-7/7   | 289   | 264 | 265   | 240 | 8x9      |
| BRIDA DESCARGA CBM-9/7   | 273   | 253 | 302   | 280 | 8x9      |
| BRIDA DESCARGA CBM-9/9   | 360   | 328 | 315   | 285 | 8x10     |
| BRIDA DESCARGA CBM-10/8  | 314   | 293 | 339   | 316 | 8x9      |
| BRIDA DESCARGA CBM-10/10 | 380,5 | 359 | 339   | 316 | 8x9      |
| BRIDA DESCARGA CBM-12/9  | 362   | 341 | 394,5 | 374 | 8x9      |
| BRIDA DESCARGA CBM-12/12 | 447   | 426 | 394,5 | 374 | 8x9      |

#### Mounting feet

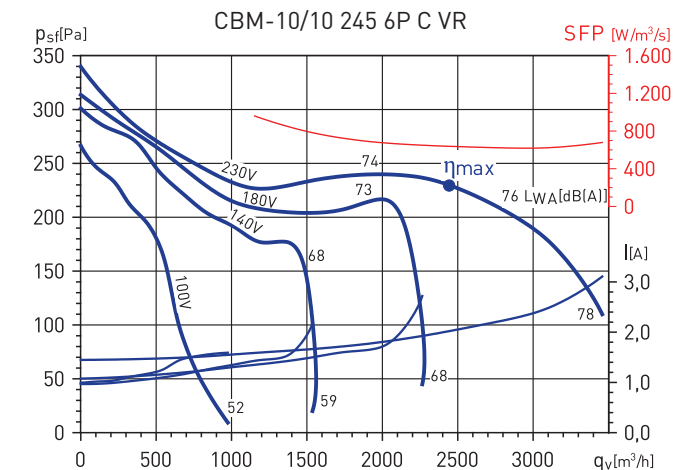


| Model | A   | B   | C  | D   | E    | F    | G  | H    | I    | J     | K    | L    |
|-------|-----|-----|----|-----|------|------|----|------|------|-------|------|------|
| 7/    | 254 | 47  | 26 | 227 | 13,5 | 12,5 | 16 | 10,5 | 15   | 195   | 15   | 12   |
| 9/    | 325 | 102 | 26 | 297 | 13,5 | 12,5 | 16 | 10,5 | -    | -     | 35,7 | 10,5 |
| 10/   | 363 | 102 | 26 | 339 | 13,5 | 12,5 | 16 | 10,5 | 37,5 | 263,5 | 62   | 12   |
| 12/   | 434 | 144 | 26 | 407 | 13,5 | 12,5 | 16 | 10,5 | 48   | 333,5 | 25,5 | 12   |

### PERFORMANCE CURVES

- $p_{sf}$ : Static pressure in Pa.
- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- SFP: Specific fan power in  $W/m^3/s$ .
- I: Absorbed current A.
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.

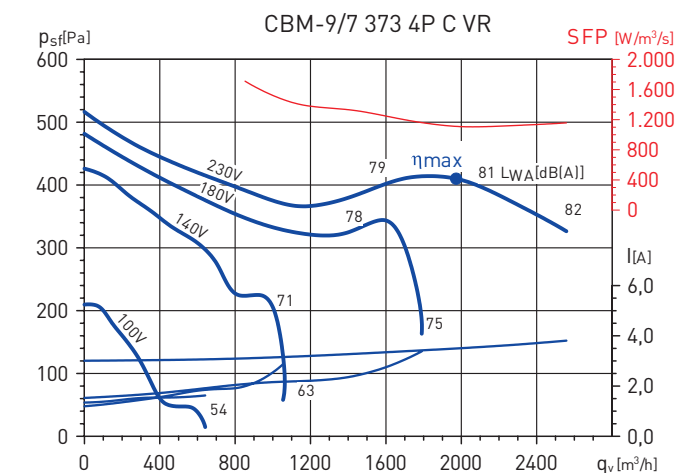
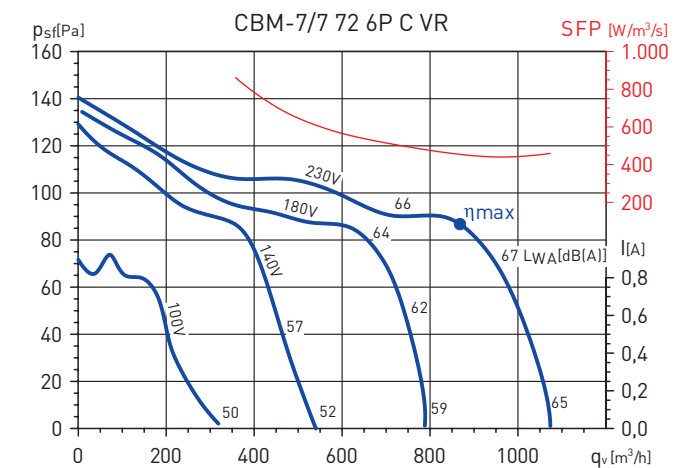
|                             |                                    |
|-----------------------------|------------------------------------|
| <b>MC</b>                   | Measurement category               |
| <b>EC</b>                   | Efficiency category                |
| <b>VSD</b>                  | VSD must be installed with the fan |
| <b>SR</b>                   | Specific ratio                     |
| <b><math>\eta</math>[%]</b> | Overall efficiency                 |
| <b>N</b>                    | Efficiency grade                   |
| <b>[kW]</b>                 | Absorbed power                     |
| <b>[<math>m^3/h</math>]</b> | Airflow                            |
| <b>[Pa]</b>                 | Total pressure                     |
| <b>[RPM]</b>                | Speed                              |



| MC* | EC*   | VSD* | SR* | $\eta$ [%]* | N*   | [kW]  | [ $m^3/h$ ] | [Pa] | [RPM] |
|-----|-------|------|-----|-------------|------|-------|-------------|------|-------|
| B   | Total | No   | 1   | 40,6        | 49,2 | 0,430 | 2439        | 257  | 924   |

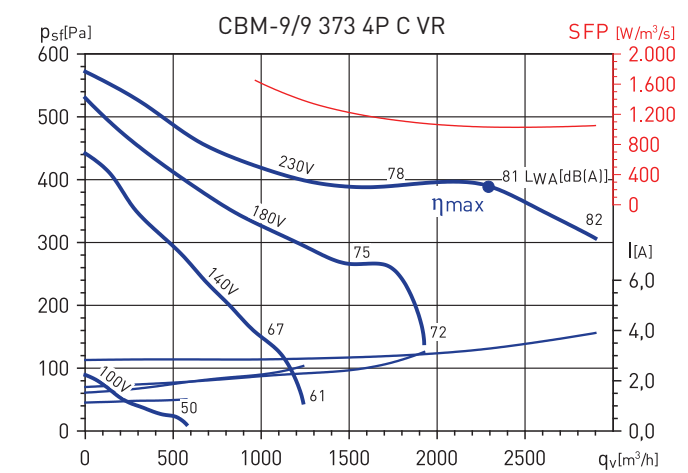
### PERFORMANCE CURVES - SINGLE-PHASE MOTORS

- $p_{sf}$ : Static pressure in Pa.
- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- SFP: Specific fan power in  $W/m^3/s$ .
- I: Absorbed current A.
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.



| MC* | EC*   | VSD* | SR* | $\eta$ [%]* | N*   | [kW]  | [ $m^3/h$ ] | [Pa] | [RPM] |
|-----|-------|------|-----|-------------|------|-------|-------------|------|-------|
| B   | Total | No   | 1   | 41,3        | 49,0 | 0,609 | 1976        | 458  | 1387  |

\* See example curve.

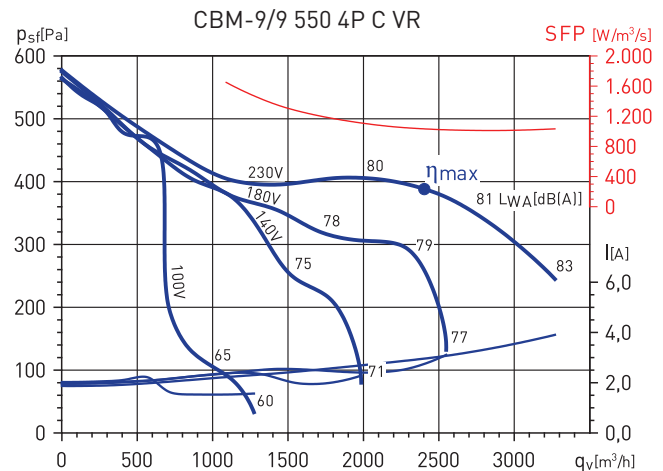


| MC* | EC*   | VSD* | SR* | $\eta$ [%]* | N*   | [kW]  | [ $m^3/h$ ] | [Pa] | [RPM] |
|-----|-------|------|-----|-------------|------|-------|-------------|------|-------|
| B   | Total | No   | 1   | 41,6        | 49,1 | 0,658 | 2301        | 429  | 1370  |

\* See example curve.

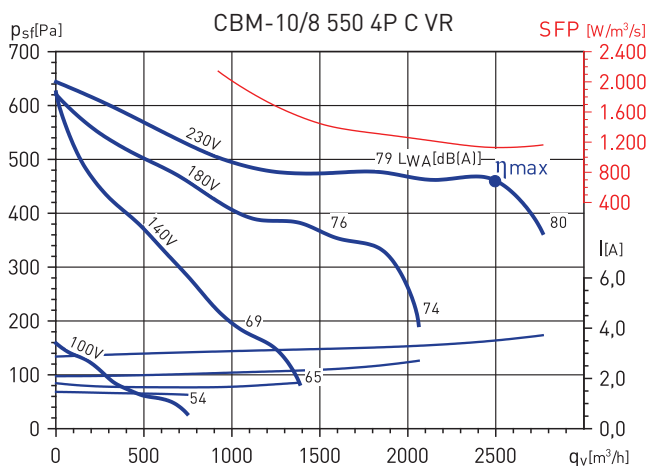
## PERFORMANCE CURVES - SINGLE-PHASE MOTORS

- $p_{sf}$ : Static pressure in Pa.
- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- SFP: Specific fan power in  $W/m^3/s$ .
- I: Absorbed current A.
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.



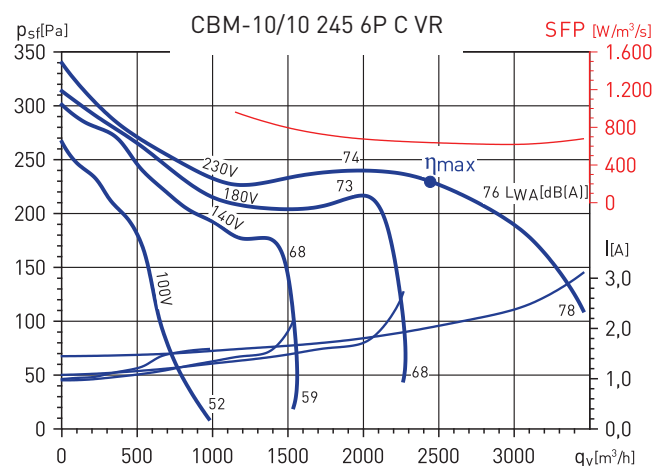
| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 41,7  | 49,0 | 0,693 | 2409   | 432  | 1376  |

\* See example curve.



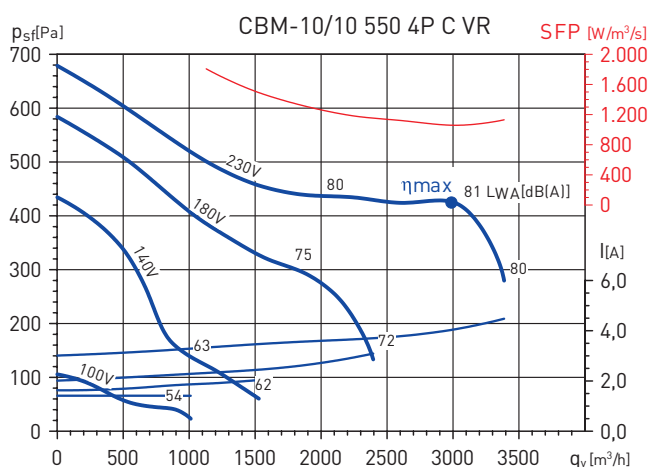
| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 44,9  | 51,9 | 0,784 | 2505   | 513  | 1308  |

\* See example curve.



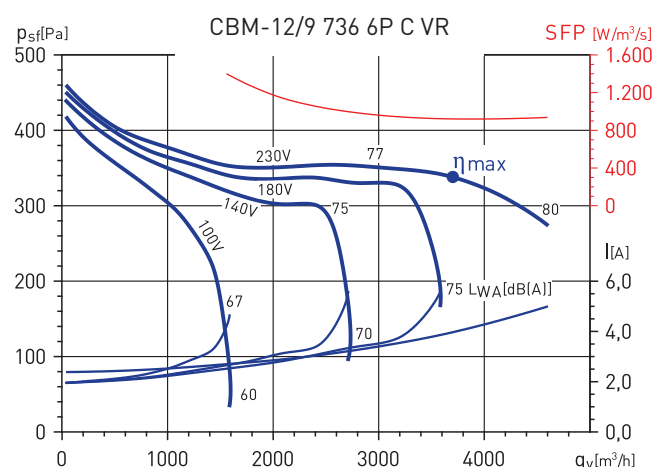
| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 40,6  | 49,2 | 0,430 | 2439   | 257  | 924   |

\* See example curve.



| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 43,7  | 50,4 | 0,881 | 2993   | 471  | 1282  |

\* See example curve.

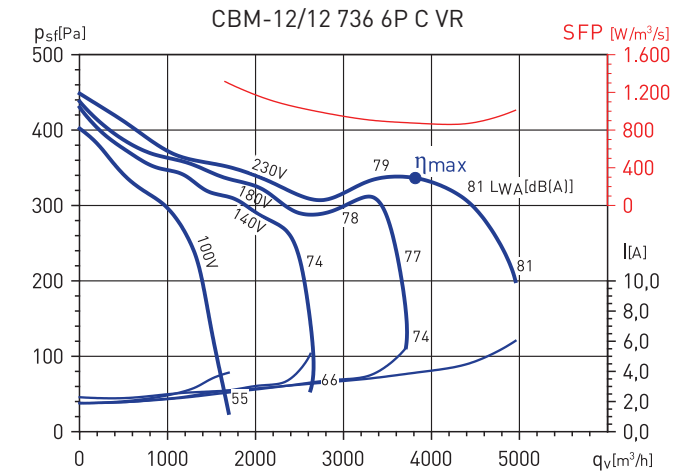


| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 42,8  | 49,3 | 0,948 | 3703   | 395  | 923   |

\* See example curve.

### PERFORMANCE CURVES - SINGLE-PHASE MOTORS

- $p_{sf}$ : Static pressure in Pa.
- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- SFP: Specific fan power in  $W/m^3/s$ .
- I: Absorbed current A.
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.

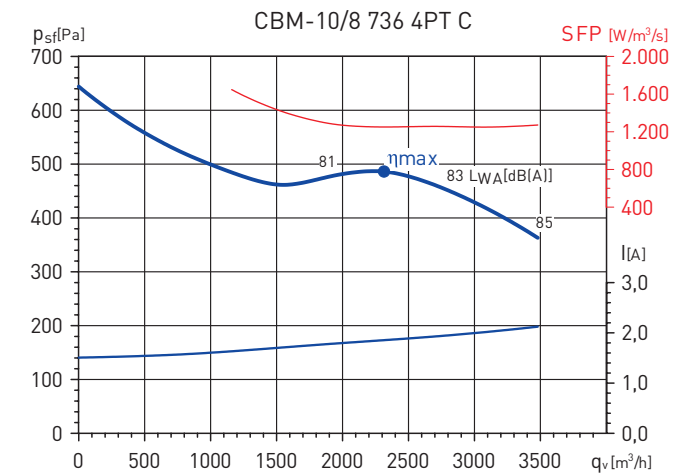


| MC* | EC*   | VSD* | SR* | $\eta$ [%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 42,7        | 49,2 | 0,926 | 3826   | 374  | 926   |

\* See example curve.

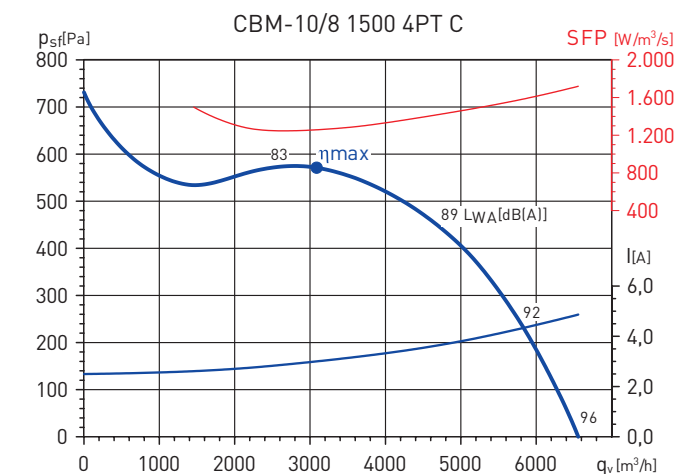
### PERFORMANCE CURVES - THREE-PHASE MOTORS

- $p_{sf}$ : Static pressure in Pa.
- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- SFP: Specific fan power in  $W/m^3/s$ .
- I: Absorbed current A.
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.



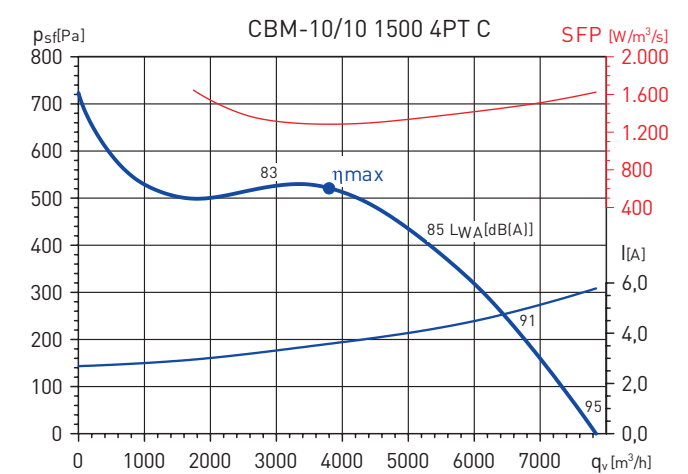
| MC* | EC*   | VSD* | SR* | $\eta$ [%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 42,2        | 49,1 | 0,803 | 2310   | 527  | 1351  |

\* See example curve.



| MC* | EC*   | VSD* | SR* | $\eta$ [%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 51,1        | 57,2 | 1,075 | 3081   | 642  | 1459  |

\* See example curve.



| MC* | EC*   | VSD* | SR* | $\eta$ [%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 45,7        | 51,2 | 1,355 | 3801   | 587  | 1462  |

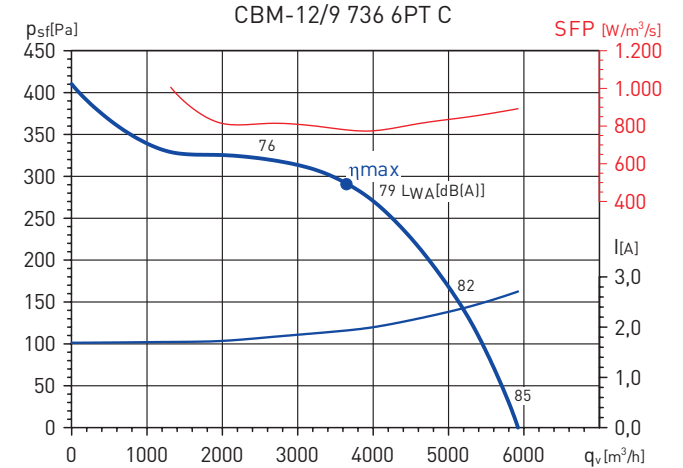
\* See example curve.





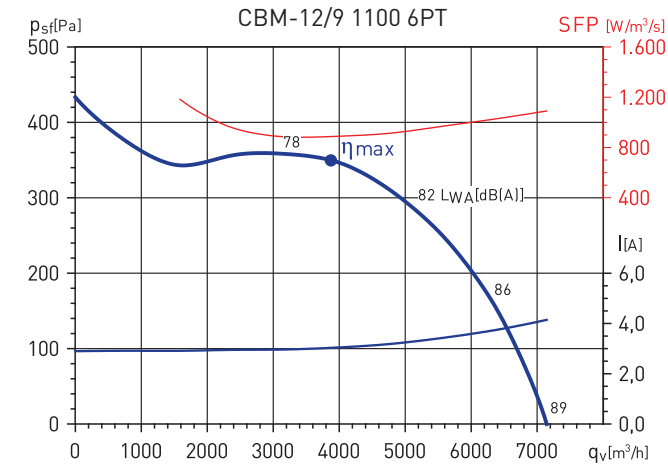
PERFORMANCE CURVES - THREE-PHASE MOTORS

- $p_{st}$ : Static pressure in Pa.
- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- SFP: Specific fan power in  $W/m^3/s$ .
- I: Absorbed current A.
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.



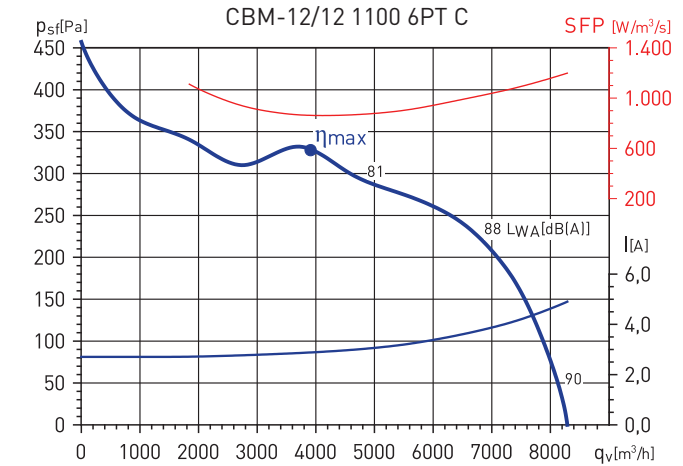
| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 44,9  | 51,9 | 0,784 | 3657   | 347  | 899   |

\* See example curve.



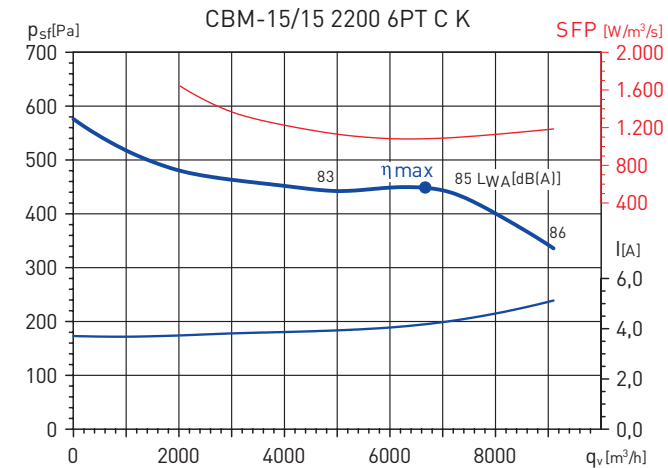
| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 43,1  | 49,2 | 1,097 | 3959   | 430  | 945   |

\* See example curve.



| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 43,0  | 49,5 | 0,942 | 3936   | 371  | 958   |

\* See example curve.



| MC* | EC*   | VSD* | SR* | η[%]* | N*   | [kW]  | [m³/h] | [Pa] | [RPM] |
|-----|-------|------|-----|-------|------|-------|--------|------|-------|
| B   | Total | No   | 1   | 46,7  | 51,1 | 2,009 | 6688   | 506  | 913   |

\* See example curve.