

## Applications

HB2C fans are designed for transporting clean air. It has many applications in industry, where in technological processes need a small airflow and high pressure. Typical applications:

- supplying air to gas burner systems,
- filtration systems,
- air transport,
- air drying systems,
- cooling systems.

## Construction

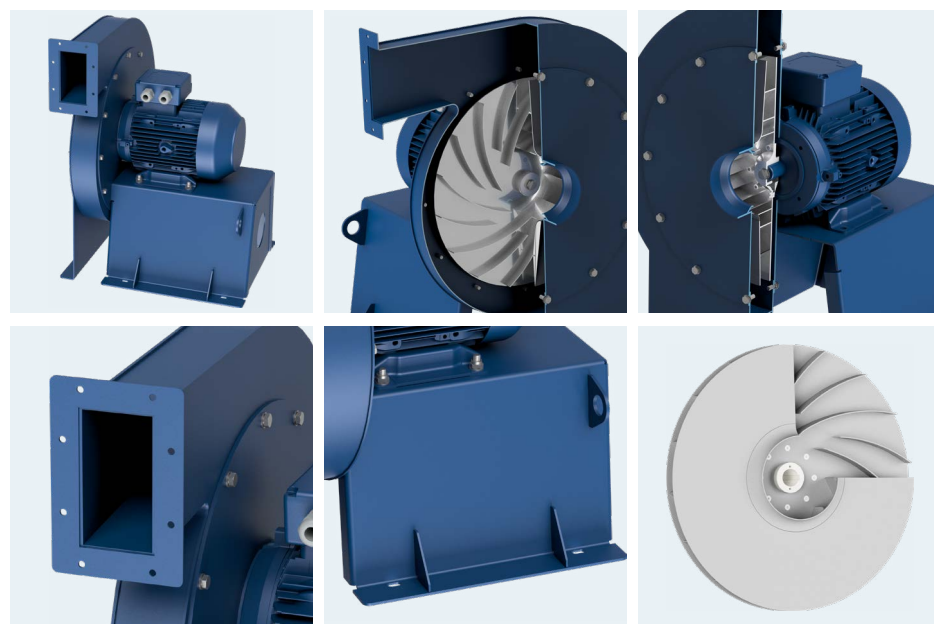
- high and very high-pressure, direct drive, radial fan,
- steel sheet rotor with backward inclined blades,
- steel welded housing,
- painted RAL 5010 (blue), corrosivity category C3,
- medium maximum temperature 80°C,
- ambient temperature of the motor from -30°C to +60°C (depending on model - see technical characteristic table),
- depending on the motor power, the fans are standard in two figures LG90 and LG270 (see specifications table),
- fans are standard in LG270 configuration.

## Electric motor

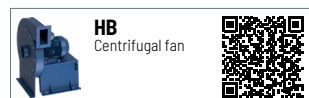
- asynchronous, three-phase 230V/400V 50Hz or 400/690V 50Hz, efficiency class IE3,
- degree of protection IP55,
- insulation class F,
- three-phase motors are adapted for frequency converter.

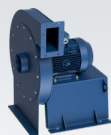
## Special executions

- optional configuration LG/RD,
- color other than standard and higher category of corrosivity,
- housing and support made of galvanized steel sheet, stainless steel 1.4301, acid-proof steel 1.4404,
- motor with voltage and frequency of power, degree of protection different than standard, equipped with sensors or additional cooling,
- sealing between the housing and the motor,
- HT version - maximum transported medium temperature higher than standard,
- ambient temperature range below -30°C and above +40°C,
- belt drive, clutch,
- ATEX version.



## RELATED PRODUCTS

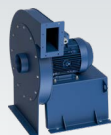




## NOMINAL DATA

| type                | airflow<br>max | pressure<br>max | speed     | voltage<br>rated | current<br>max abs.** | power<br>motor | sound<br>pressure<br>level* | temperature<br>operating<br>min / max | temperature<br>ambient<br>min / max | weight     | article<br>number |
|---------------------|----------------|-----------------|-----------|------------------|-----------------------|----------------|-----------------------------|---------------------------------------|-------------------------------------|------------|-------------------|
| THREE-PHASE 3000RPM |                |                 |           |                  |                       |                |                             |                                       |                                     |            |                   |
| HB2C-2-40-075T      | 850 m³/h       | 2 920 Pa        | 2 890 rpm | 3~400 V          | 1,7 A                 | 0,75 kW        | 67 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 52,0 kg    | 436054020         |
| HB2C-2-40-110T      | 1 340 m³/h     | 2 920 Pa        | 2 890 rpm | 3~400 V          | 2,5 A                 | 1,1 kW         | 65 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 53,0 kg    | 436054021         |
| HB2C-2-40-150T      | 1 600 m³/h     | 2 920 Pa        | 2 880 rpm | 3~400 V          | 3,0 A                 | 1,5 kW         | 62 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 58,0 kg    | 436054022         |
| HB2C-2-45-110T      | 800 m³/h       | 3 700 Pa        | 2 890 rpm | 3~400 V          | 2,5 A                 | 1,1 kW         | 70 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 60,0 kg    | 436054520         |
| HB2C-2-45-150T      | 1 250 m³/h     | 3 700 Pa        | 2 880 rpm | 3~400 V          | 3,0 A                 | 1,5 kW         | 69 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 65,0 kg    | 436054521         |
| HB2C-2-45-220T      | 2 200 m³/h     | 3 700 Pa        | 2 910 rpm | 3~400 V          | 4,3 A                 | 2,2 kW         | 66 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 66,0 kg    | 436054522         |
| HB2C-2-50-220T      | 1 430 m³/h     | 4 570 Pa        | 2 910 rpm | 3~400 V          | 4,3 A                 | 2,2 kW         | 74 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 75,0 kg    | 436055020         |
| HB2C-2-50-300T      | 2 200 m³/h     | 4 570 Pa        | 2 915 rpm | 3~400 V          | 5,3 A                 | 3,0 kW         | 73 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 81,0 kg    | 436055021         |
| HB2C-2-50-400T      | 3 140 m³/h     | 4 570 Pa        | 2 895 rpm | 3~400 V          | 7,3 A                 | 4,0 kW         | 68 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 92,0 kg    | 436055022         |
| HB2C-2-56-400T      | 2 130 m³/h     | 5 730 Pa        | 2 895 rpm | 3~400 V          | 7,3 A                 | 4,0 kW         | 77 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 104,0 kg   | 436055620         |
| HB2C-2-56-550T      | 3 280 m³/h     | 5 730 Pa        | 2 940 rpm | 3~400 V          | 10 A                  | 5,5 kW         | 75 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 123,0 kg   | 436055621         |
| HB2C-2-56-750T      | 4 600 m³/h     | 5 730 Pa        | 2 930 rpm | 3~400 V          | 13,3 A                | 7,5 kW         | 72 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 132,0 kg   | 436055622         |
| HB2C-2-63-550T      | 2 150 m³/h     | 7 250 Pa        | 2 940 rpm | 3~400 V          | 10 A                  | 5,5 kW         | 81 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 144,0 kg   | 436056320         |
| HB2C-2-63-750T      | 3 240 m³/h     | 7 250 Pa        | 2 930 rpm | 3~400 V          | 13,3 A                | 7,5 kW         | 81 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 153,0 kg   | 436056321         |
| HB2C-2-63-1100T     | 5 450 m³/h     | 7 250 Pa        | 2 925 rpm | 3~400 V          | 19,3 A                | 11 kW          | 78 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 212,0 kg   | 436056322         |
| HB2C-2-63-1500T     | 6 220 m³/h     | 7 250 Pa        | 2 940 rpm | 3~400 V          | 26 A                  | 15 kW          | 75 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 221,0 kg   | 436056323         |
| HB2C-2-71-1100T     | 3 400 m³/h     | 9 200 Pa        | 2 925 rpm | 3~400 V          | 19,3 A                | 11 kW          | 84 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 233,0 kg   | 436057120         |
| HB2C-2-71-1500T     | 5 050 m³/h     | 9 200 Pa        | 2 940 rpm | 3~400 V          | 26 A                  | 15 kW          | 84 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 244,0 kg   | 436057121         |
| HB2C-2-71-1850T     | 7 150 m³/h     | 9 200 Pa        | 2 940 rpm | 3~400 V          | 32,1 A                | 18,5 kW        | 82 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 251,0 kg   | 436057122         |
| HB2C-2-71-2200T     | 9 000 m³/h     | 9 200 Pa        | 2 950 rpm | 3~400 V          | 38,1 A                | 22 kW          | 79 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 302,0 kg   | 436057123         |
| HB2C-2-80-2200T     | 5 300 m³/h     | 11 700 Pa       | 2 950 rpm | 3~400 V          | 38,1 A                | 22 kW          | 88 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 327,0 kg   | 436058020         |
| HB2C-2-80-3000T     | 8 400 m³/h     | 11 700 Pa       | 2 965 rpm | 3~400 V          | 53 A                  | 30 kW          | 87 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 395,0 kg   | 436058021         |
| HB2C-2-80-3700T     | 11 000 m³/h    | 11 700 Pa       | 2 955 rpm | 3~400 V          | 65 A                  | 37 kW          | 84 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 410,0 kg   | 436058022         |
| HB2C-2-80-4500T     | 12 800 m³/h    | 11 700 Pa       | 2 960 rpm | 3~400 V          | 77 A                  | 45 kW          | 82 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 525,0 kg   | 436058023         |
| HB2C-2-90-3700T     | 7 000 m³/h     | 14 800 Pa       | 2 955 rpm | 3~400 V          | 65 A                  | 37 kW          | 92 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 454,0 kg   | 436059020         |
| HB2C-2-90-4500T     | 9 200 m³/h     | 14 800 Pa       | 2 960 rpm | 3~400 V          | 77 A                  | 45 kW          | 92 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 576,0 kg   | 436059021         |
| HB2C-2-90-5500T     | 12 000 m³/h    | 14 800 Pa       | 2 970 rpm | 3~400 V          | 92 A                  | 55 kW          | 90 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 611,0 kg   | 436059022         |
| HB2C-2-90-7500T     | 18 290 m³/h    | 14 800 Pa       | 2 960 rpm | 3~400 V          | 127 A                 | 75 kW          | 87 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 761,0 kg   | 446059023         |
| HB2C-2-100-7500T    | 11 500 m³/h    | 18 200 Pa       | 2 960 rpm | 3~400 V          | 127 A                 | 75 kW          | 95 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 789,0 kg   | 446051020         |
| HB2C-2-100-9000T    | 15 500 m³/h    | 18 200 Pa       | 2 980 rpm | 3~400 V          | 150 A                 | 90 kW          | 95 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 879,0 kg   | 446051021         |
| HB2C-2-100-11000T   | 22 000 m³/h    | 18 200 Pa       | 2 980 rpm | 3~400 V          | 183 A                 | 110 kW         | 92 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 1 026,0 kg | 446051022         |
| HB2C-2-100-13200T   | 25 000 m³/h    | 18 200 Pa       | 2 975 rpm | 3~400 V          | 222 A                 | 132 kW         | 91 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 1 196,0 kg | 446051023         |

\*Measurement made at a distance of 1.5m from the outlet, for Q = 2/3 \* Qmax  
 \*\* value of the rated current may vary depending on the manufacturer of the electric motor used.



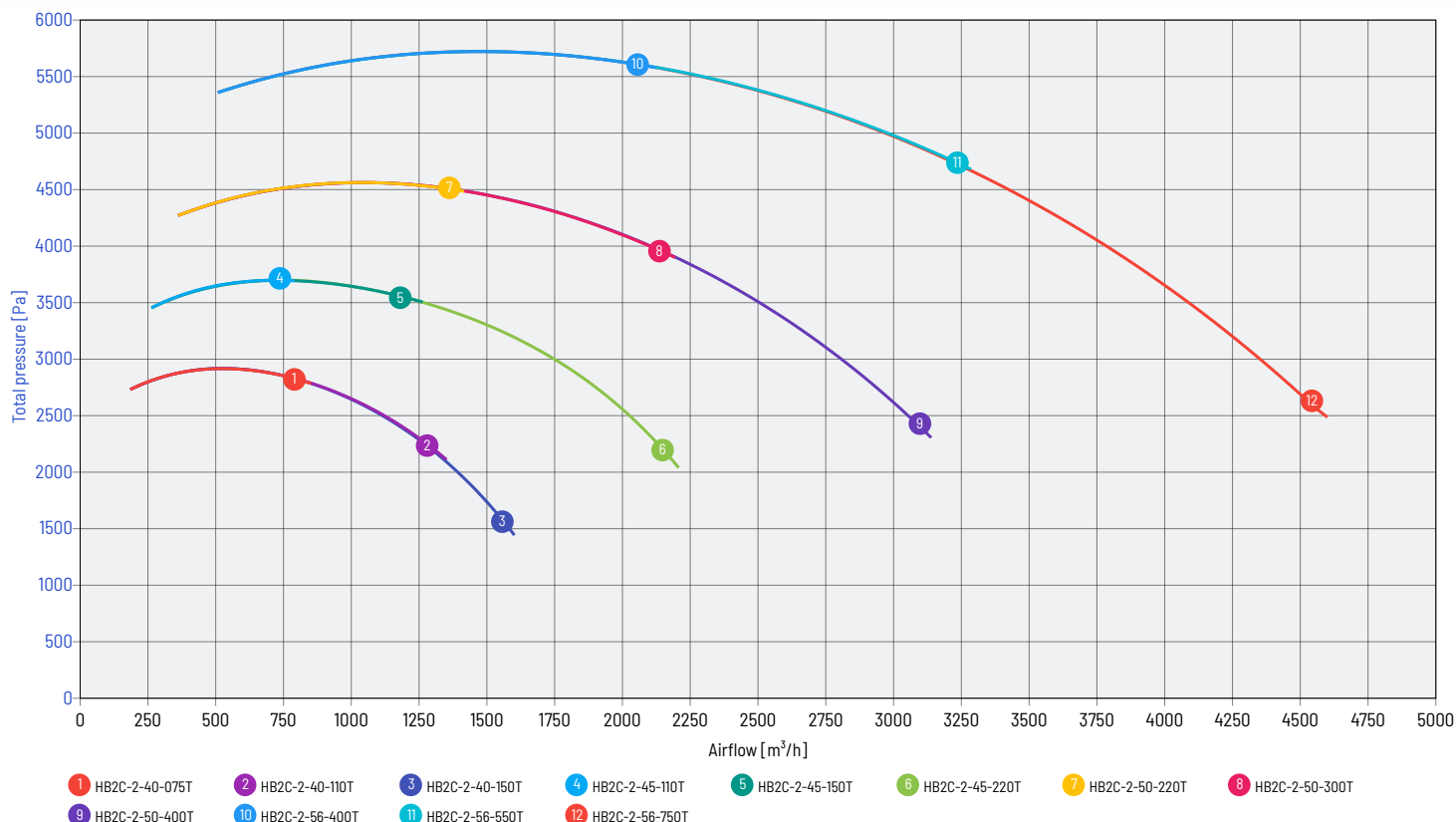
## NOMINAL DATA

| type                | airflow<br>max           | pressure<br>max | speed     | voltage<br>rated | current<br>max abs.** | power<br>motor | sound<br>pressure<br>level* | temperature<br>operating<br>min / max | temperature<br>ambient<br>min / max | weight   | article<br>number |
|---------------------|--------------------------|-----------------|-----------|------------------|-----------------------|----------------|-----------------------------|---------------------------------------|-------------------------------------|----------|-------------------|
| THREE-PHASE 1500RPM |                          |                 |           |                  |                       |                |                             |                                       |                                     |          |                   |
| HB2C-4-40-012T      | 580 m <sup>3</sup> /h    | 700 Pa          | 1 380 rpm | 3~400 V          | 0,45 A                | 0,12 kW        | 51 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 45,0 kg  | 436054040         |
| HB2C-4-40-018T      | 780 m <sup>3</sup> /h    | 700 Pa          | 1 380 rpm | 3~400 V          | 0,65 A                | 0,18 kW        | 47 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 45,0 kg  | 436054041         |
| HB2C-4-45-018T      | 620 m <sup>3</sup> /h    | 890 Pa          | 1 380 rpm | 3~400 V          | 0,65 A                | 0,18 kW        | 55 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 53,0 kg  | 436054540         |
| HB2C-4-45-025T      | 1 070 m <sup>3</sup> /h  | 890 Pa          | 1 380 rpm | 3~400 V          | 0,85 A                | 0,25 kW        | 52 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 54,0 kg  | 436054541         |
| HB2C-4-50-025T      | 640 m <sup>3</sup> /h    | 1 100 Pa        | 1 380 rpm | 3~400 V          | 0,85 A                | 0,25 kW        | 59 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 61,0 kg  | 436055040         |
| HB2C-4-50-037T      | 1 100 m <sup>3</sup> /h  | 1 100 Pa        | 1 370 rpm | 3~400 V          | 1,15 A                | 0,37 kW        | 57 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 62,0 kg  | 436055041         |
| HB2C-4-50-055T      | 1 540 m <sup>3</sup> /h  | 1 100 Pa        | 1 400 rpm | 3~400 V          | 1,70 A                | 0,55 kW        | 54 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 63,0 kg  | 436055042         |
| HB2C-4-56-037T      | 900 m <sup>3</sup> /h    | 1 380 Pa        | 1 370 rpm | 3~400 V          | 1,2 A                 | 0,37 kW        | 62 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 74,0 kg  | 436055640         |
| HB2C-4-56-055T      | 1 230 m <sup>3</sup> /h  | 1 380 Pa        | 1 400 rpm | 3~400 V          | 1,70 A                | 0,55 kW        | 61 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 75,0 kg  | 436055641         |
| HB2C-4-56-075T      | 2 260 m <sup>3</sup> /h  | 1 380 Pa        | 1 430 rpm | 3~400 V          | 2,1 A                 | 0,75 kW        | 57 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 79,0 kg  | 436055642         |
| HB2C-4-63-075T      | 1 200 m <sup>3</sup> /h  | 1 750 Pa        | 1 430 rpm | 3~400 V          | 2,1 A                 | 0,75 kW        | 65 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 100,0 kg | 436056340         |
| HB2C-4-63-110T      | 2 050 m <sup>3</sup> /h  | 1 750 Pa        | 1 430 rpm | 3~400 V          | 2,5 A                 | 1,1 kW         | 64 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 107,0 kg | 436056341         |
| HB2C-4-63-150T      | 3 070 m <sup>3</sup> /h  | 1 750 Pa        | 1 440 rpm | 3~400 V          | 3,6 A                 | 1,5 kW         | 60 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 117,0 kg | 436056342         |
| HB2C-4-71-150T      | 1 900 m <sup>3</sup> /h  | 2 220 Pa        | 1 440 rpm | 3~400 V          | 3,6 A                 | 1,5 kW         | 69 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 138,0 kg | 436057140         |
| HB2C-4-71-220T      | 3 500 m <sup>3</sup> /h  | 2 220 Pa        | 1 465 rpm | 3~400 V          | 4,6 A                 | 2,2 kW         | 67 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 138,0 kg | 436057141         |
| HB2C-4-71-300T      | 4 400 m <sup>3</sup> /h  | 2 220 Pa        | 1 460 rpm | 3~400 V          | 6,7 A                 | 3,0 kW         | 64 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 141,0 kg | 436057142         |
| HB2C-4-80-300T      | 3 050 m <sup>3</sup> /h  | 2 820 Pa        | 1 460 rpm | 3~400 V          | 6,7 A                 | 3,0 kW         | 72 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 165,0 kg | 436058040         |
| HB2C-4-80-400T      | 4 800 m <sup>3</sup> /h  | 2 820 Pa        | 1 460 rpm | 3~400 V          | 8,1 A                 | 4,0 kW         | 71 dB(A)                    | -30 / 80 °C                           | -30 / 60 °C                         | 176,0 kg | 436058041         |
| HB2C-4-80-550T      | 6 300 m <sup>3</sup> /h  | 2 820 Pa        | 1 460 rpm | 3~400 V          | 10,9 A                | 5,5 kW         | 67 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 197,0 kg | 436058042         |
| HB2C-4-90-400T      | 3 050 m <sup>3</sup> /h  | 3 570 Pa        | 1 460 rpm | 3~400 V          | 8,1 A                 | 4,0 kW         | 77 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 225,0 kg | 436059040         |
| HB2C-4-90-550T      | 4 800 m <sup>3</sup> /h  | 3 570 Pa        | 1 460 rpm | 3~400 V          | 10,9 A                | 5,5 kW         | 76 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 247,0 kg | 436059041         |
| HB2C-4-90-750T      | 7 450 m <sup>3</sup> /h  | 3 570 Pa        | 1 465 rpm | 3~400 V          | 14,4 A                | 7,5 kW         | 74 dB(A)                    | -30 / 80 °C                           | -15 / 40 °C                         | 251,0 kg | 436059042         |
| HB2C-4-90-1100T     | 8 990 m <sup>3</sup> /h  | 3 570 Pa        | 1 475 rpm | 3~400 V          | 20,9 A                | 11 kW          | 71 dB(A)                    | -30 / 80 °C                           | -30 / 60 °C                         | 320,0 kg | 436059043         |
| HB2C-4-100-750T     | 5 000 m <sup>3</sup> /h  | 4 400 Pa        | 1 465 rpm | 3~400 V          | 14,4 A                | 7,5 kW         | 79 dB(A)                    | -30 / 80 °C                           | -30 / 60 °C                         | 279,0 kg | 436051040         |
| HB2C-4-100-1100T    | 8 200 m <sup>3</sup> /h  | 4 400 Pa        | 1 475 rpm | 3~400 V          | 20,9 A                | 11 kW          | 78 dB(A)                    | -30 / 80 °C                           | -30 / 60 °C                         | 348,0 kg | 436051041         |
| HB2C-4-100-1500T    | 12 300 m <sup>3</sup> /h | 4 400 Pa        | 1 475 rpm | 3~400 V          | 28,1 A                | 15 kW          | 74 dB(A)                    | -30 / 80 °C                           | -30 / 40 °C                         | 366,0 kg | 436051042         |

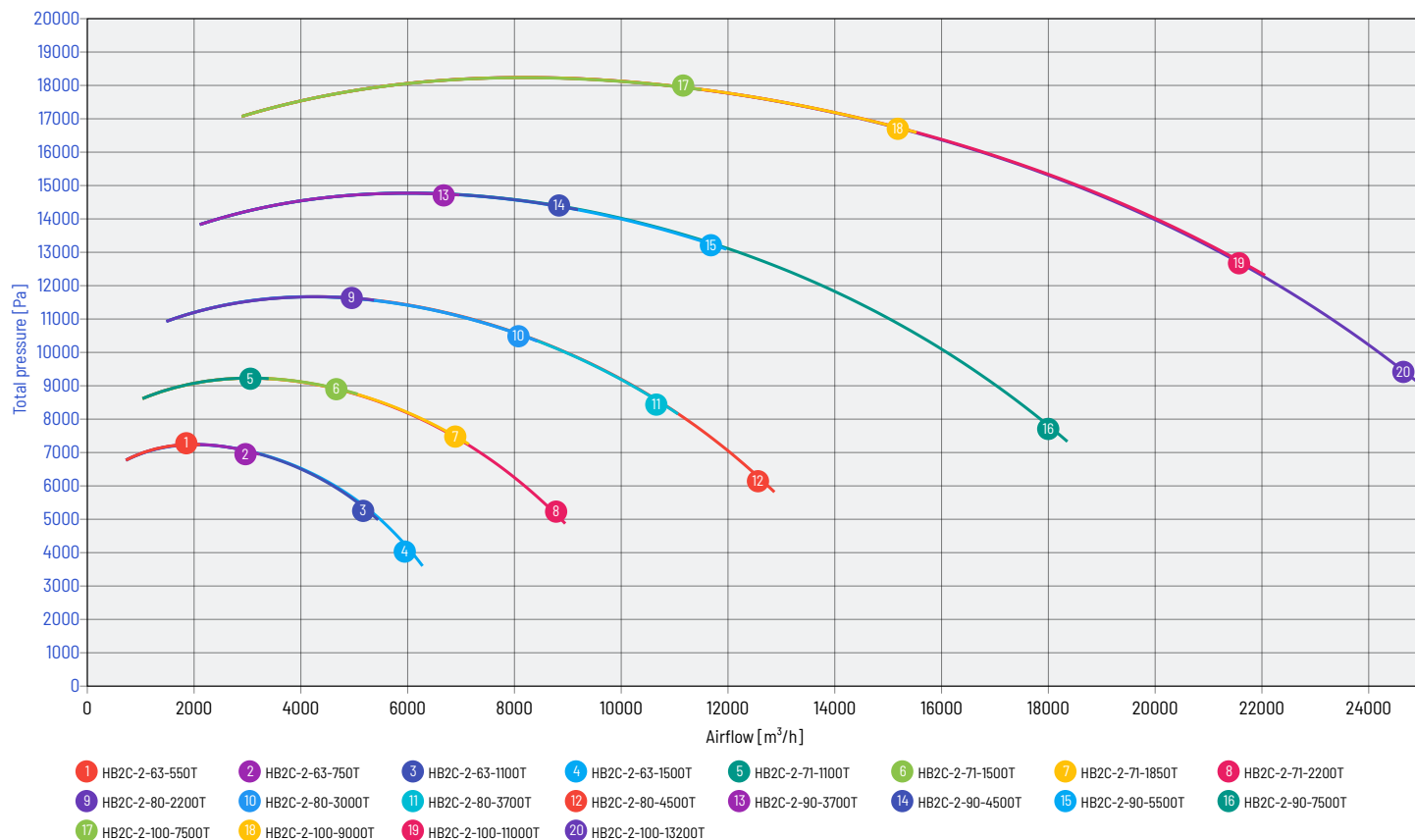
\*Measurement made at a distance of 1.5m from the outlet, for Q = 2/3 \* Qmax  
 \*\* value of the rated current may vary depending on the manufacturer of the electric motor used.



## PERFORMANCE CHARACTERISTICS OF THE FANS - THREE-PHASE 3000RPM 40-56

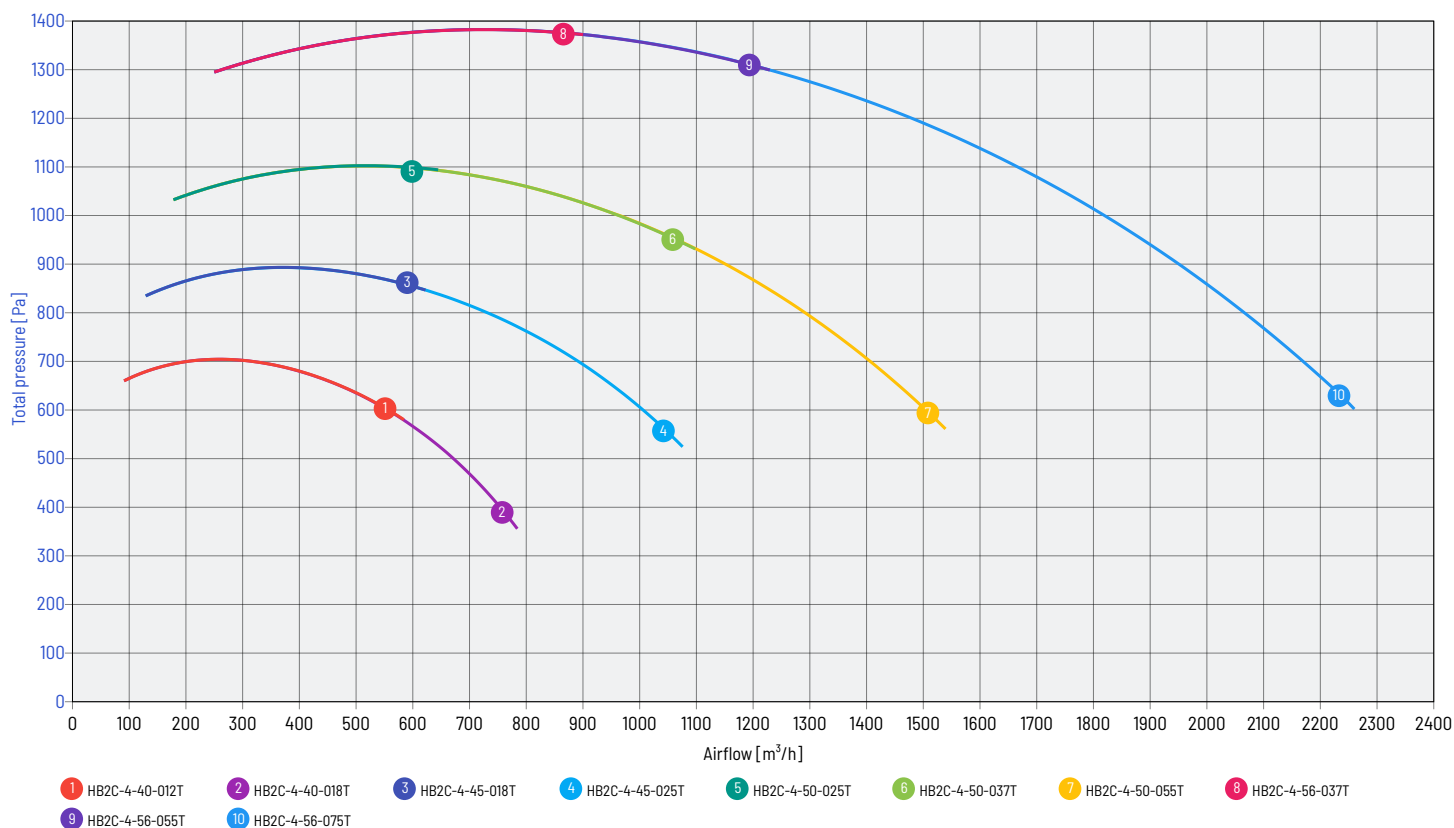


## PERFORMANCE CHARACTERISTICS OF THE FANS - THREE-PHASE 3000RPM 63-100

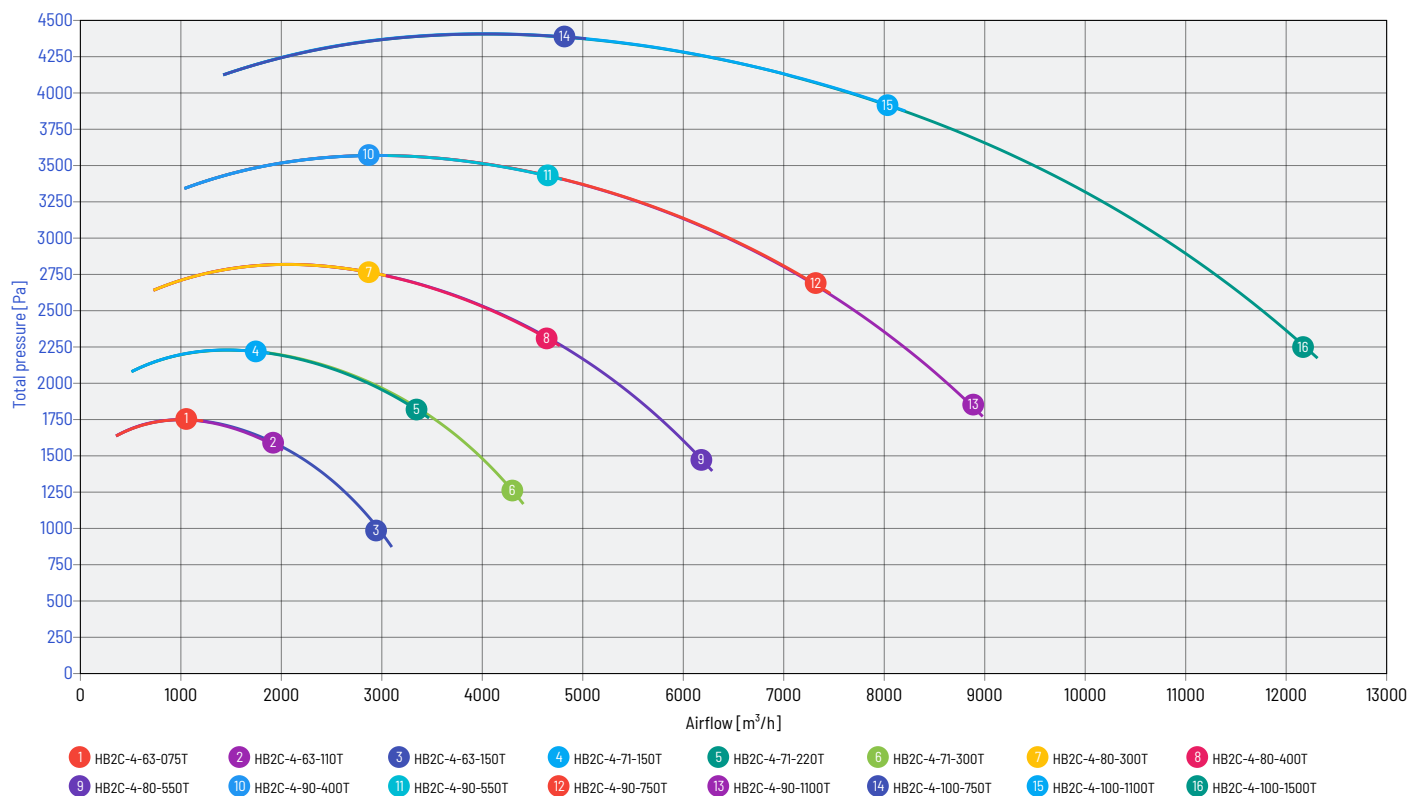




## PERFORMANCE CHARACTERISTICS OF THE FANS - THREE-PHASE 1500RPM 40-56

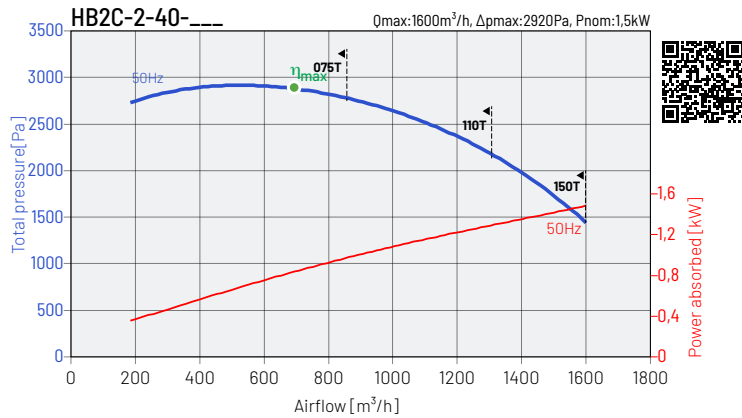


## PERFORMANCE CHARACTERISTICS OF THE FANS - THREE-PHASE 1500RPM 63-100

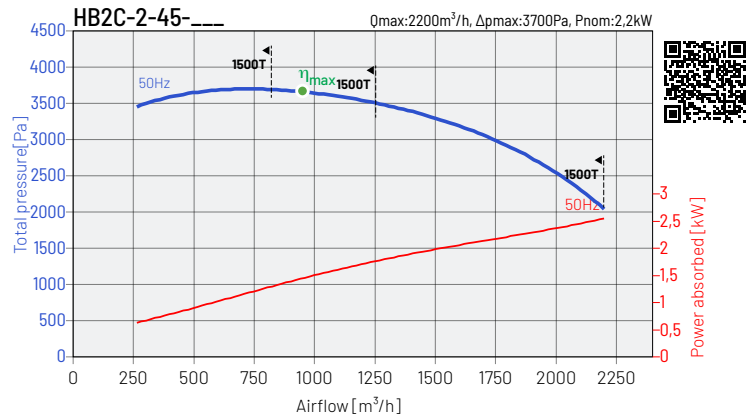




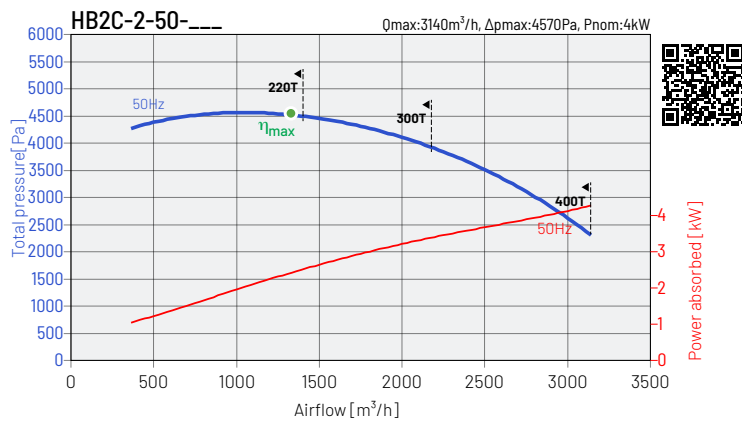
## PERFORMANCE CHARACTERISTICS OF THE FANS



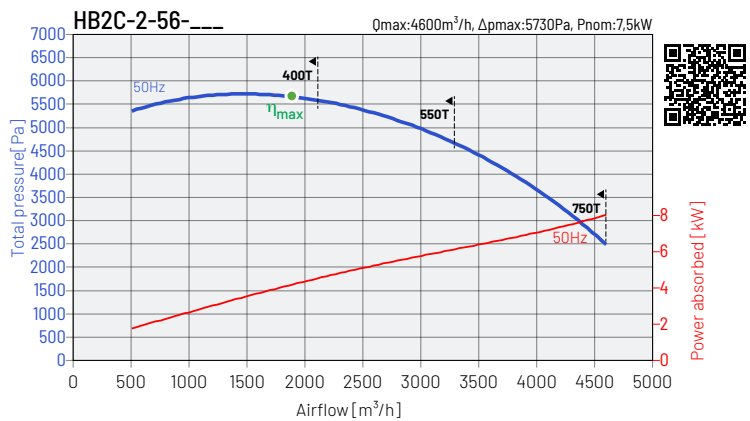
|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa    | rpm   |
|------|----|--------|----|-----|----------|------|------|------|-------|-------|
| 075T | C  | static | 1  | no  | 59,3     | 70,6 | 0,84 | 671  | 2 672 | 2 890 |
| 110T | C  | static | 1  | no  | 60,0     | 71,4 | 0,83 | 671  | 2 672 | 2 890 |
| 150T | C  | static | 1  | no  | 60,3     | 71,7 | 0,82 | 669  | 2 654 | 2 880 |



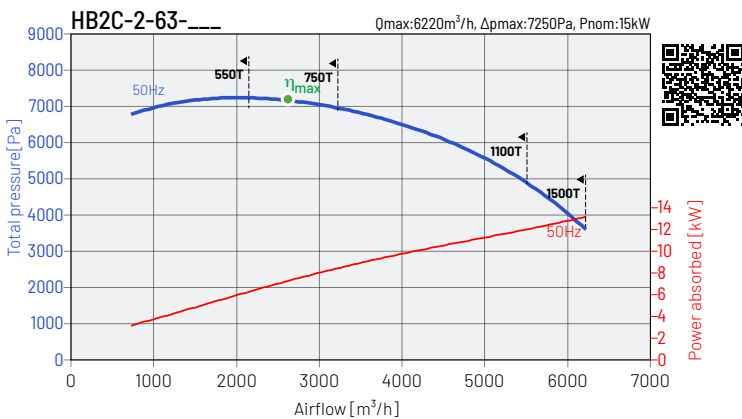
|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa    | rpm   |
|------|----|--------|----|-----|----------|------|------|------|-------|-------|
| 110T | C  | static | 1  | no  | 58,1     | 66,8 | 1,50 | 946  | 3 309 | 2 890 |
| 150T | C  | static | 1  | no  | 58,4     | 67,1 | 1,48 | 943  | 3 286 | 2 880 |
| 220T | C  | static | 1  | no  | 61,4     | 70,3 | 1,45 | 953  | 3 355 | 2 910 |



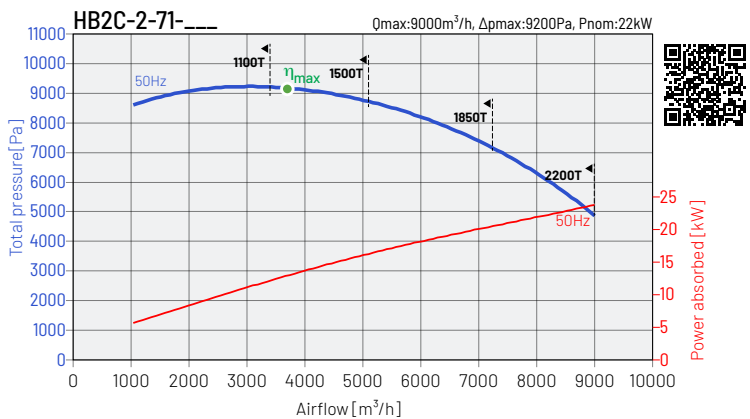
|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h  | Pa    | rpm   |
|------|----|--------|----|-----|----------|------|------|-------|-------|-------|
| 220T | C  | static | 1  | no  | 62,4     | 68,8 | 2,45 | 1 314 | 4 187 | 2 910 |
| 300T | C  | static | 1  | no  | 63,6     | 70,1 | 2,41 | 1 316 | 4 201 | 2 915 |
| 400T | C  | static | 1  | no  | 63,0     | 69,6 | 2,39 | 1 307 | 4 144 | 2 895 |



|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h  | Pa    | rpm   |
|------|----|--------|----|-----|----------|------|------|-------|-------|-------|
| 400T | C  | static | 1  | no  | 62,0     | 65,9 | 4,21 | 1 814 | 5 174 | 2 895 |
| 550T | C  | static | 1  | no  | 65,7     | 69,7 | 4,15 | 1 842 | 5 336 | 2 940 |
| 750T | C  | static | 1  | no  | 65,7     | 69,8 | 4,11 | 1 836 | 5 300 | 2 930 |



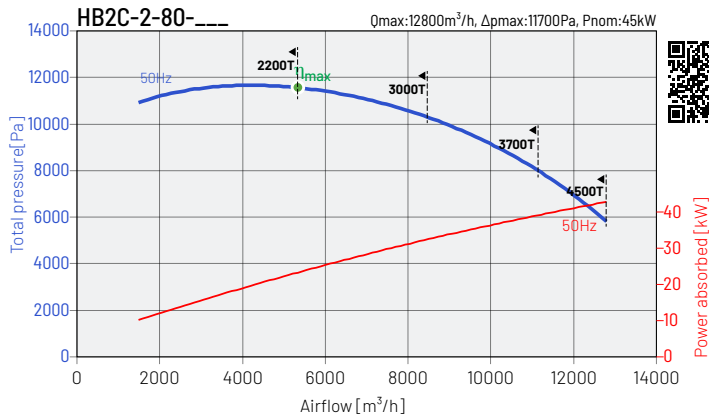
|       | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h  | Pa    | rpm   |
|-------|----|--------|----|-----|----------|------|------|-------|-------|-------|
| 550T  | C  | static | 1  | no  | 63,8     | 65,1 | 7,49 | 2 614 | 6 576 | 2 940 |
| 750T  | C  | static | 1  | no  | 64,4     | 65,8 | 7,34 | 2 605 | 6 531 | 2 930 |
| 1100T | C  | static | 1  | no  | 65,2     | 66,7 | 7,21 | 2 601 | 6 509 | 2 925 |
| 1500T | C  | static | 1  | no  | 65,7     | 67,2 | 7,27 | 2 614 | 6 576 | 2 940 |



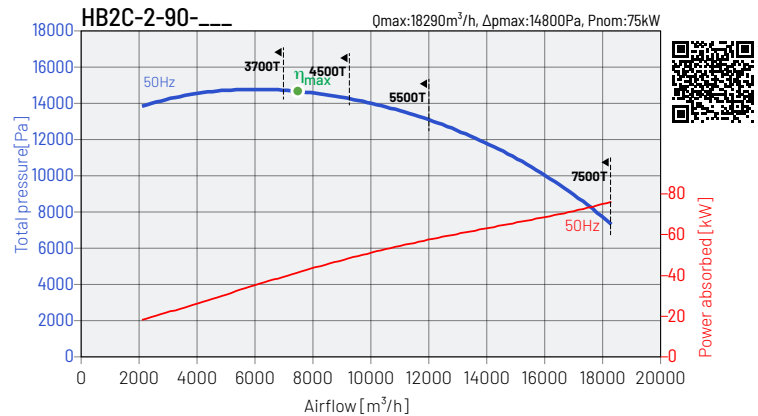
|       | MC | EC     | SR | VSD | $\eta$ % | N    | kW    | m³/h  | Pa    | rpm   |
|-------|----|--------|----|-----|----------|------|-------|-------|-------|-------|
| 1100T | C  | static | 1  | no  | 65,3     | 65,1 | 12,98 | 3 710 | 8 218 | 2 925 |
| 1500T | C  | static | 1  | no  | 65,8     | 65,6 | 13,08 | 3 729 | 8 303 | 2 940 |
| 1850T | C  | static | 1  | no  | 66,1     | 65,9 | 13,01 | 3 729 | 8 303 | 2 940 |
| 2200T | C  | static | 1  | no  | 66,4     | 66,1 | 13,10 | 3 742 | 8 360 | 2 950 |



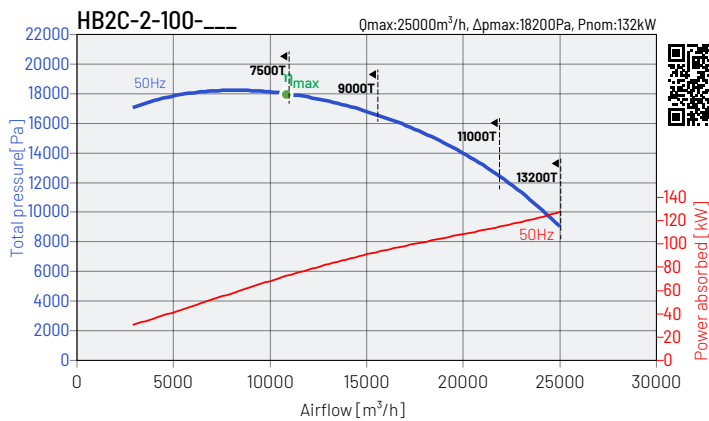
## PERFORMANCE CHARACTERISTICS OF THE FANS



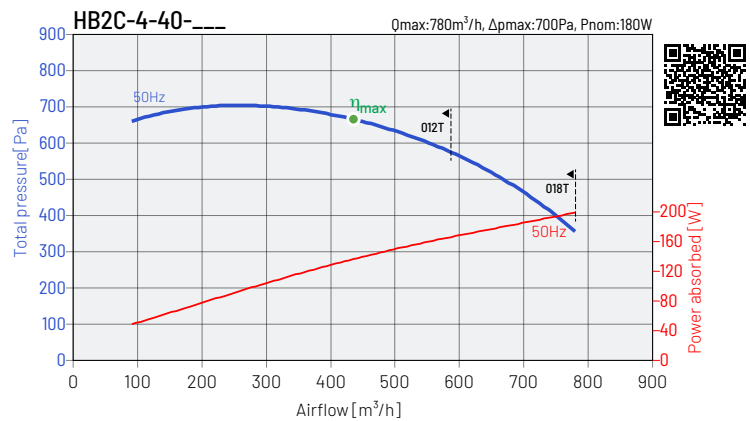
|       | MC | EC     | SR | VSD | $\eta$ % | N    | kW    | $\text{m}^3/\text{h}$ | Pa     | rpm   |
|-------|----|--------|----|-----|----------|------|-------|-----------------------|--------|-------|
| 2200T | C  | static | 1  | no  | 66,1     | 65,2 | 23,62 | 5 335                 | 10 529 | 2 950 |
| 3000T | C  | static | 1  | no  | 66,3     | 65,4 | 23,91 | 5 362                 | 10 637 | 2 965 |
| 3700T | C  | static | 1  | no  | 66,8     | 66,0 | 23,46 | 5 344                 | 10 565 | 2 955 |
| 4500T | C  | static | 1  | no  | 67,0     | 66,1 | 23,53 | 5 353                 | 10 601 | 2 960 |



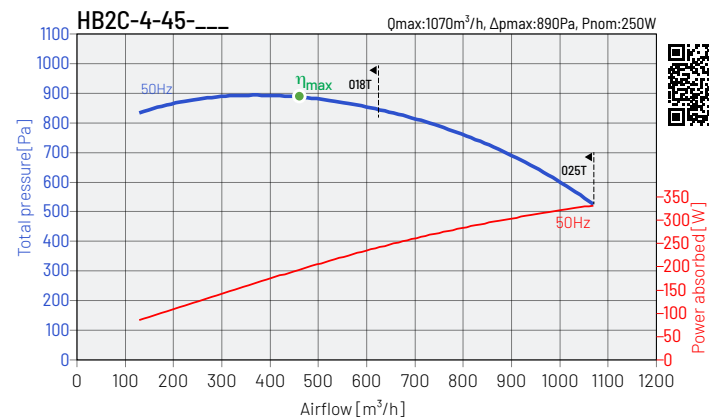
|       | MC | EC     | SR | VSD | $\eta$ % | N    | kW    | $\text{m}^3/\text{h}$ | Pa     | rpm   |
|-------|----|--------|----|-----|----------|------|-------|-----------------------|--------|-------|
| 3700T | C  | static | 1  | no  | 67,1     | 65,5 | 41,93 | 7 608                 | 13 386 | 2 955 |
| 4500T | C  | static | 1  | no  | 67,6     | 65,8 | 42,04 | 7 621                 | 13 431 | 2 960 |
| 5500T | C  | static | 1  | no  | 67,7     | 66,0 | 42,41 | 7 647                 | 13 522 | 2 970 |
| 7500T | C  | static | 1  | no  | 67,8     | 66,3 | 41,96 | 7 621                 | 13 431 | 2 960 |



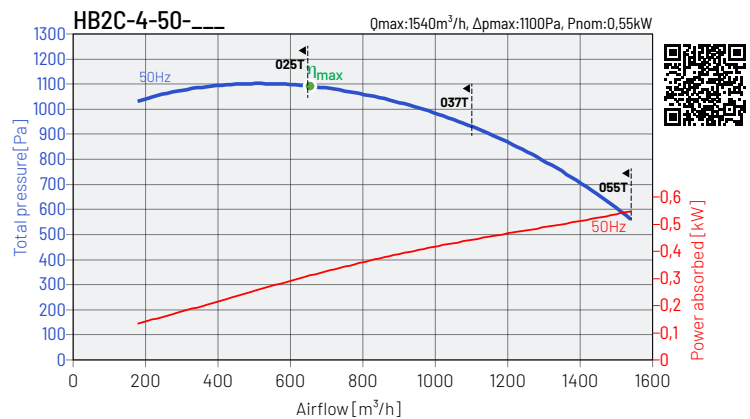
|        | MC | EC     | SR | VSD | $\eta$ % | N    | kW    | $\text{m}^3/\text{h}$ | Pa     | rpm   |
|--------|----|--------|----|-----|----------|------|-------|-----------------------|--------|-------|
| 7500T  | C  | static | 1  | no  | 70,1     | 68,1 | 67,63 | 10 401                | 16 411 | 2 960 |
| 9000T  | C  | static | 1  | no  | 70,5     | 68,5 | 68,59 | 10 472                | 16 634 | 2 980 |
| 11000T | C  | static | 1  | no  | 70,8     | 68,7 | 68,38 | 10 472                | 16 634 | 2 980 |
| 13200T | C  | static | 1  | no  | 70,1     | 68,1 | 68,66 | 10 454                | 16 578 | 2 975 |



|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | $\text{m}^3/\text{h}$ | Pa    | rpm   |
|------|----|--------|----|-----|----------|------|------|-----------------------|-------|-------|
| 012T | C  | static | 1  | no  | 63,8     | 66,0 | 6,17 | 1 843                 | 7 686 | 2 940 |
| 018T | C  | static | 1  | no  | 68,9     | 69,7 | 8,32 | 2 722                 | 7 586 | 2 930 |



|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | $\text{m}^3/\text{h}$ | Pa  | rpm   |
|------|----|--------|----|-----|----------|------|------|-----------------------|-----|-------|
| 018T | C  | static | 1  | no  | 52,2     | 70,0 | 0,20 | 468                   | 811 | 1 380 |
| 025T | C  | static | 1  | no  | 53,6     | 71,6 | 0,20 | 468                   | 811 | 1 380 |

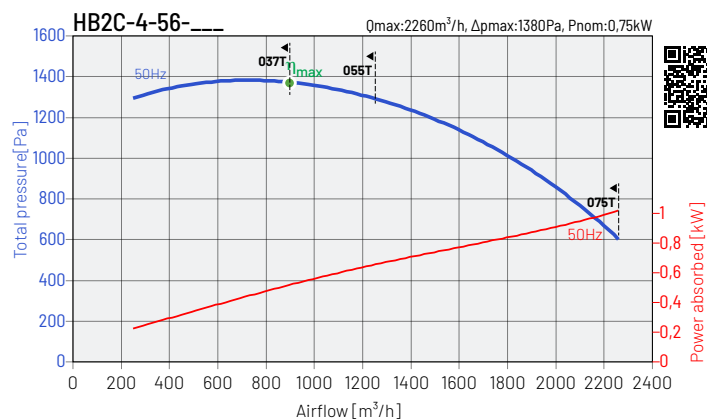


|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | $\text{m}^3/\text{h}$ | Pa    | rpm   |
|------|----|--------|----|-----|----------|------|------|-----------------------|-------|-------|
| 025T | C  | static | 1  | no  | 51,4     | 66,9 | 0,33 | 633                   | 973   | 1 380 |
| 037T | C  | static | 1  | no  | 51,8     | 67,4 | 0,33 | 628                   | 959   | 1 370 |
| 055T | C  | static | 1  | no  | 58,3     | 74,2 | 0,31 | 642                   | 1 001 | 1 400 |

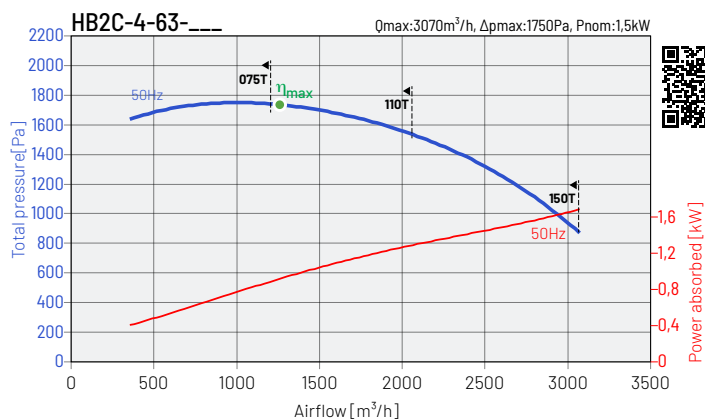




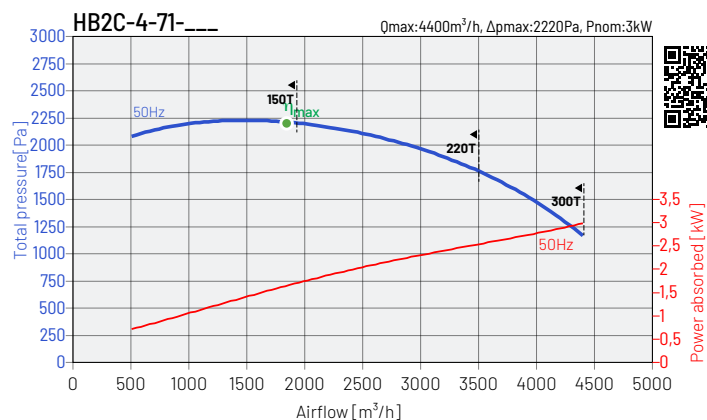
## PERFORMANCE CHARACTERISTICS OF THE FANS



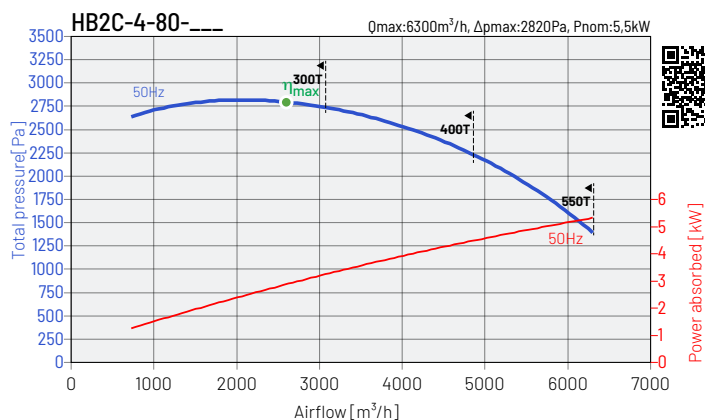
|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa   | rpm  |
|------|----|--------|----|-----|----------|------|------|------|------|------|
| 037T | C  | static | 1  | no  | 52,3     | 65,6 | 0,54 | 864  | 1176 | 1370 |
| 055T | C  | static | 1  | no  | 56,5     | 69,8 | 0,53 | 883  | 1228 | 1400 |
| 075T | C  | static | 1  | no  | 61,3     | 74,8 | 0,52 | 902  | 1281 | 1430 |



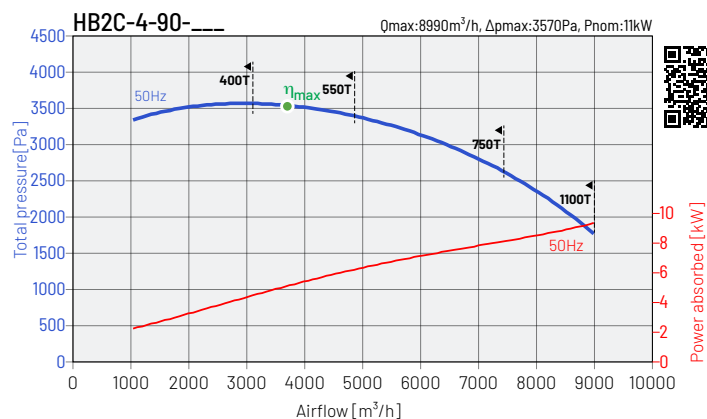
|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa   | rpm  |
|------|----|--------|----|-----|----------|------|------|------|------|------|
| 075T | C  | static | 1  | no  | 59,0     | 69,8 | 0,94 | 1276 | 1567 | 1430 |
| 110T | C  | static | 1  | no  | 60,2     | 71,0 | 0,92 | 1276 | 1567 | 1430 |
| 150T | C  | static | 1  | no  | 61,0     | 71,8 | 0,93 | 1285 | 1589 | 1440 |



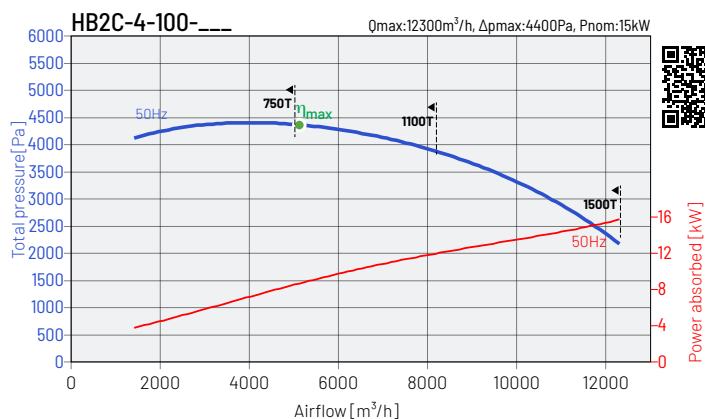
|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa   | rpm  |
|------|----|--------|----|-----|----------|------|------|------|------|------|
| 150T | C  | static | 1  | no  | 61,0     | 69,3 | 1,62 | 1814 | 1963 | 1440 |
| 220T | C  | static | 1  | no  | 62,0     | 70,1 | 1,68 | 1845 | 2032 | 1465 |
| 300T | C  | static | 1  | no  | 62,8     | 71,0 | 1,64 | 1839 | 2018 | 1460 |



|      | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa   | rpm  |
|------|----|--------|----|-----|----------|------|------|------|------|------|
| 300T | C  | static | 1  | no  | 62,7     | 68,2 | 2,99 | 2631 | 2561 | 1460 |
| 400T | C  | static | 1  | no  | 63,3     | 68,9 | 2,96 | 2631 | 2561 | 1460 |
| 550T | C  | static | 1  | no  | 64,1     | 69,7 | 2,92 | 2631 | 2561 | 1460 |



|       | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa   | rpm  |
|-------|----|--------|----|-----|----------|------|------|------|------|------|
| 400T  | C  | static | 1  | no  | 63,4     | 66,4 | 5,16 | 3708 | 3179 | 1460 |
| 550T  | C  | static | 1  | no  | 64,1     | 67,2 | 5,11 | 3708 | 3179 | 1460 |
| 750T  | C  | static | 1  | no  | 64,7     | 67,8 | 5,11 | 3721 | 3201 | 1465 |
| 1100T | C  | static | 1  | no  | 65,4     | 68,4 | 5,16 | 3746 | 3245 | 1475 |

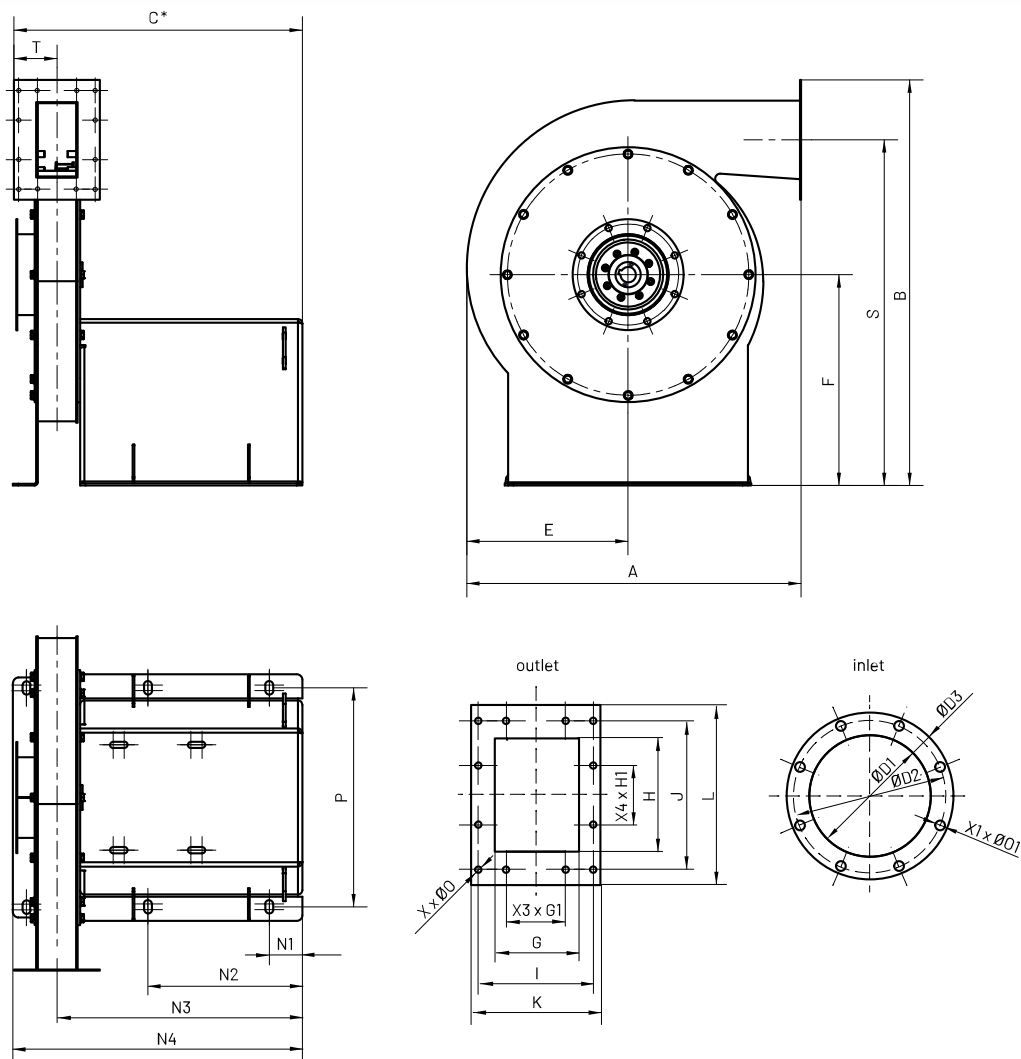


|       | MC | EC     | SR | VSD | $\eta$ % | N    | kW   | m³/h | Pa   | rpm  |
|-------|----|--------|----|-----|----------|------|------|------|------|------|
| 750T  | C  | static | 1  | no  | 64,1     | 64,7 | 8,74 | 5104 | 3951 | 1465 |
| 1100T | C  | static | 1  | no  | 64,7     | 65,2 | 8,84 | 5139 | 4005 | 1475 |
| 1500T | C  | static | 1  | no  | 65,9     | 66,5 | 8,68 | 5139 | 4005 | 1475 |





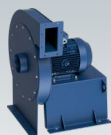
## DIMENSIONS



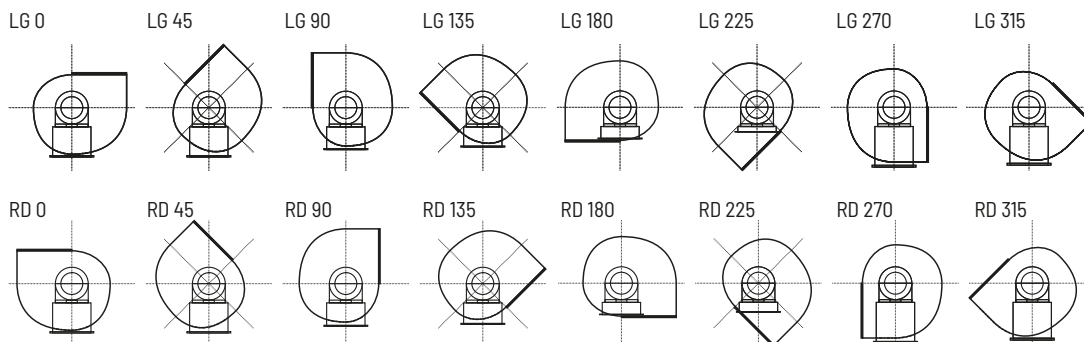
| type        | A<br>mm | B<br>mm | C*<br>mm | ØD1<br>mm | ØD2<br>mm | ØD3<br>mm | E<br>mm | F<br>mm | G<br>mm | H<br>mm | I<br>mm | J<br>mm |
|-------------|---------|---------|----------|-----------|-----------|-----------|---------|---------|---------|---------|---------|---------|
| HB2C-x-40x  | 603     | 731     | 520      | 140       | 182       | 200       | 291     | 380     | 69      | 132     | 138     | 178     |
| HB2C-x-45x  | 678     | 770     | 528      | 160       | 200       | 220       | 326     | 380     | 77      | 148     | 138     | 178     |
| HB2C-x-50x  | 754     | 814     | 532      | 180       | 219       | 240       | 362     | 390     | 85      | 165     | 138     | 198     |
| HB2C-x-56x  | 837     | 840     | 544      | 200       | 241       | 260       | 405     | 380     | 108     | 185     | 138     | 218     |
| HB2C-x-63x  | 937     | 964     | 544      | 225       | 265       | 290       | 455     | 450     | 108     | 208     | 138     | 238     |
| HB2C-x-71x  | 1114    | 1076    | 551      | 250       | 292       | 310       | 512     | 500     | 118     | 235     | 138     | 262     |
| HB2C-x-80x  | 1209    | 1261    | 700      | 280       | 332       | 360       | 577     | 600     | 137     | 264     | 178     | 318     |
| HB2C-x-90x  | 1340    | 1478    | 838      | 315       | 366       | 390       | 648     | 750     | 155     | 297     | 198     | 318     |
| HB2C-x-100x | 1483    | 1518    | 867      | 355       | 405       | 430       | 720     | 750     | 172     | 330     | 218     | 393     |

\* dimension for the longest motor version (depending on the motor manufacturer)

| type        | K<br>mm | L<br>mm | N1<br>mm | N2<br>mm | N3<br>mm | N4<br>mm | P<br>mm | S<br>mm | T<br>mm | X1 x Ø01<br>mm | X3 x G1<br>mm | X4 x H1<br>mm | X x Ø0<br>mm |
|-------------|---------|---------|----------|----------|----------|----------|---------|---------|---------|----------------|---------------|---------------|--------------|
| HB2C-x-40x  | 155     | 216     | 61       | 280      | 443      | 522      | 395     | 623     | 77,5    | 8x11,5         | 1x71          | 1x71          | 12x7         |
| HB2C-x-45x  | 163     | 232     | 61       | 341      | 447      | 530      | 395     | 654     | 81,5    | 8x11,5         | 1x71          | 1x71          | 12x7         |
| HB2C-x-50x  | 164     | 239     | 61       | 341      | 451      | 539      | 395     | 694     | 82      | 8x11,5         | 1x71          | 1x100         | 12x7         |
| HB2C-x-56x  | 164     | 239     | 60       | 340      | 462      | 561      | 395     | 720     | 82      | 8x11,5         | 1x71          | 1x100         | 12x7         |
| HB2C-x-63x  | 164     | 262     | 60       | 340      | 462      | 561      | 395     | 833     | 82      | 8x11,5         | 1x71          | 1x100         | 12x7         |
| HB2C-x-71x  | 164     | 289     | 59       | 339      | 469      | 575      | 420     | 932     | 82      | 8x11,5         | 1x71          | 1x100         | 12x7         |
| HB2C-x-80x  | 223     | 348     | 79       | 399      | 589      | 702      | 600     | 1087    | 111,5   | 8x11,5         | 1x71          | 1x125         | 12x10        |
| HB2C-x-90x  | 221     | 361     | 106      | 526      | 681      | 834      | 740     | 1297    | 110,5   | 8x11,5         | 1x100         | 1x125         | 12x10        |
| HB2C-x-100x | 258     | 414     | 86       | 506      | 689      | 864      | 740     | 1309    | 129     | 8x11,5         | 1x100         | 2x125         | 14x10        |



## FIGURES



## ELECTRICAL ACCESSORIES



| type            | inverter<br>L | service<br>switch |
|-----------------|---------------|-------------------|
| HB2C-2-40-075T  | L 0,75 kW     | R-S 3-F + SP, 10A |
| HB2C-2-40-110T  | L 1,5 kW      | R-S 3-F + SP, 10A |
| HB2C-2-40-150T  | L 1,5 kW      | R-S 3-F + SP, 10A |
| HB2C-2-45-110T  | L 1,5 kW      | R-S 3-F + SP, 10A |
| HB2C-2-45-150T  | L 1,5 kW      | R-S 3-F + SP, 10A |
| HB2C-2-45-220T  | L 2,2 kW      | R-S 3-F + SP, 10A |
| HB2C-2-50-220T  | L 2,2 kW      | R-S 3-F + SP, 10A |
| HB2C-2-50-300T  | L 4,0 kW      | R-S 3-F + SP, 10A |
| HB2C-2-50-400T  | L 4,0 kW      | R-S 3-F + SP, 10A |
| HB2C-2-56-400T  | L 4,0 kW      | R-S 3-F + SP, 10A |
| HB2C-2-56-550T  | L 5,5 kW      | R-S 3-F + SP, 16A |
| HB2C-2-56-750T  | L 7,5 kW      | R-S 3-F + SP, 16A |
| HB2C-2-63-550T  | L 5,5 kW      | R-S 3-F + SP, 16A |
| HB2C-2-63-750T  | L 7,5 kW      | R-S 3-F + SP, 16A |
| HB2C-2-63-1100T | L 11,0 kW     | R-S 3-F + SP, 25A |
| HB2C-2-63-1500T | L 15,0 kW     | R-S 3-F + SP, 40A |
| HB2C-2-71-1100T | L 11,0 kW     | R-S 3-F + SP, 25A |
| HB2C-2-71-1500T | L 15,0 kW     | R-S 3-F + SP, 40A |
| HB2C-2-71-1850T | L 18,5 kW     | R-S 3-F + SP, 40A |
| HB2C-2-71-2200T | L 22,0 kW     | R-S 3-F + SP, 40A |

| type              | inverter<br>L | service<br>switch |
|-------------------|---------------|-------------------|
| HB2C-2-80-2200T   | L 22,0 kW     | R-S 3-F + SP, 40A |
| HB2C-2-80-3000T   | L 30,0 kW     | R-S 3-F + SP, 63A |
| HB2C-2-80-3700T   | on request    | on request        |
| HB2C-2-80-4500T   | on request    | on request        |
| HB2C-2-90-3700T   | on request    | on request        |
| HB2C-2-90-4500T   | on request    | on request        |
| HB2C-2-90-5500T   | on request    | on request        |
| HB2C-2-90-7500T   | on request    | on request        |
| HB2C-2-100-7500T  | on request    | on request        |
| HB2C-2-100-9000T  | on request    | on request        |
| HB2C-2-100-11000T | on request    | on request        |
| HB2C-2-100-13200T | on request    | on request        |
| HB2C-4-40-012T    | L 0,4 kW      | R-S 3-F + SP, 10A |
| HB2C-4-40-018T    | L 0,4 kW      | R-S 3-F + SP, 10A |
| HB2C-4-45-018T    | L 0,4 kW      | R-S 3-F + SP, 10A |
| HB2C-4-45-025T    | L 0,4 kW      | R-S 3-F + SP, 10A |
| HB2C-4-50-025T    | L 0,4 kW      | R-S 3-F + SP, 10A |
| HB2C-4-50-037T    | L 0,4 kW      | R-S 3-F + SP, 10A |
| HB2C-4-50-055T    | L 0,75 kW     | R-S 3-F + SP, 10A |
| HB2C-4-56-037T    | L 0,4 kW      | R-S 3-F + SP, 10A |

| type             | inverter<br>L | service<br>switch |
|------------------|---------------|-------------------|
| HB2C-4-56-055T   | L 0,75 kW     | R-S 3-F + SP, 10A |
| HB2C-4-56-075T   | L 0,75 kW     | R-S 3-F + SP, 10A |
| HB2C-4-63-075T   | L 0,75 kW     | R-S 3-F + SP, 10A |
| HB2C-4-63-110T   | L 1,5 kW      | R-S 3-F + SP, 10A |
| HB2C-4-63-150T   | L 1,5 kW      | R-S 3-F + SP, 10A |
| HB2C-4-71-150T   | L 1,5 kW      | R-S 3-F + SP, 10A |
| HB2C-4-71-220T   | L 2,2 kW      | R-S 3-F + SP, 10A |
| HB2C-4-71-300T   | L 4,0 kW      | R-S 3-F + SP, 10A |
| HB2C-4-80-300T   | L 4,0 kW      | R-S 3-F + SP, 10A |
| HB2C-4-80-400T   | L 4,0 kW      | R-S 3-F + SP, 10A |
| HB2C-4-80-550T   | L 5,5 kW      | R-S 3-F + SP, 16A |
| HB2C-4-90-400T   | L 4,0 kW      | R-S 3-F + SP, 10A |
| HB2C-4-90-550T   | L 5,5 kW      | R-S 3-F + SP, 16A |
| HB2C-4-90-750T   | L 7,5 kW      | R-S 3-F + SP, 16A |
| HB2C-4-90-1100T  | L 11,0 kW     | R-S 3-F + SP, 25A |
| HB2C-4-100-750T  | L 7,5 kW      | R-S 3-F + SP, 16A |
| HB2C-4-100-1100T | L 11,0 kW     | R-S 3-F + SP, 25A |
| HB2C-4-100-1500T | L 15,0 kW     | R-S 3-F + SP, 40A |
| HB2C-4-100-1500T | L 15,0 kW     | R-S 3-F + SP, 40A |

## Article numbers

40016450 Inverter 0.4kW  
40016451 Inverter 0.75kW  
40016452 Inverter 1.5kW  
40016453 Inverter 2.2kW  
40016454 Inverter 4.0kW  
40016455 Inverter 5.5kW

40016456 Inverter 7.5kW  
40016457 Inverter 11.0kW  
40016458 Inverter 15.0kW  
40016459 Inverter 18.5kW  
40016460 Inverter 22.0kW  
Inverter 30.0kW

91040908-01 R-S 3-F + SP, 10A  
91040908 R-S 3-F + SP, 16A  
91040910 R-S 3-F + SP, 25A  
91040924 R-S 3-F + SP, 40A  
91040911-03 R-S 3-F + SP, 63A