

# KF T120



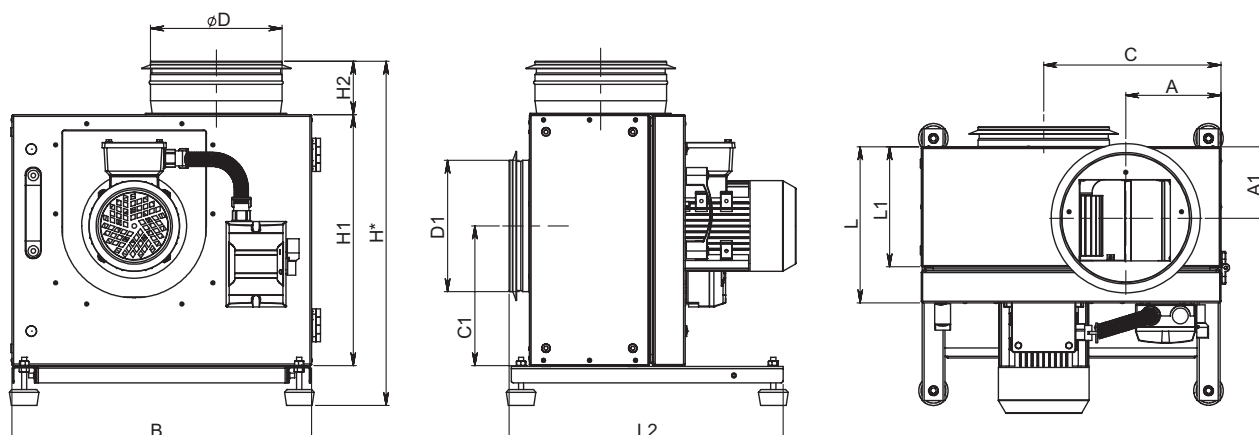
|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Features</b>              | <ul style="list-style-type: none"> <li>› 9 sizes;</li> <li>› Airflow up to 3480 m³/h;</li> <li>› Forward- or backward-curved galvanized steel impeller;</li> <li>› Max air stream temperature - 120°C;</li> <li>› Easily serviceable;</li> <li>› Cost-effective.</li> </ul>                                                                                                                                                                                        |
| <b>Power supply</b>          | 400V/50Hz/3f.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Temperature range</b>     | From -40°C up to 40°C.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sizes</b>                 | 160-4L3, 180-4L3, 200-4L3, 225-4L3, 250-4L3, 280-4L3, 315-4L3, 355-4L3, 400-4L3.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Construction</b>          | <ul style="list-style-type: none"> <li>› Casing: galvanized steel;</li> <li>› Acoustic and thermal wall insulation – 50mm;</li> <li>› Anti-vibration pads;</li> <li>› Easily removable grease tray;</li> <li>› Galvanized steel roofing;</li> <li>› On/Off safety switch (optional);</li> <li>› Fan: centrifugal impeller and external rotor motor;</li> <li>› Motor protection with built-in thermal contact;</li> <li>› Motor protection class: IP54.</li> </ul> |
| <b>Installation</b>          | <ul style="list-style-type: none"> <li>› Can be installed outdoors.</li> <li>› Mounting position: vertical.</li> </ul>                                                                                                                                                                                                                                                                                                                                             |
| <b>Speed control options</b> | <ul style="list-style-type: none"> <li>› Voltage controlled speed controller;</li> <li>› Frequency inverters.</li> </ul>                                                                                                                                                                                                                                                                                                                                           |

KF T120 160 4 L3

|  |                            |
|--|----------------------------|
|  | Phase                      |
|  | Number of axles            |
|  | Nominal impeller diameter  |
|  | Max. airstream temperature |
|  | Product name (kitchen fan) |

## Accessories

|                                                             |                                                                                |                                                     |                                                   |
|-------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| <b>Coupling</b><br><br><b>NPU</b> p. 194                    | <b>Flexible connection for high temperature</b><br><br><b>RC-MAN-PU</b> p. 195 | <b>Air outlet</b><br><br><b>AB</b> p. 196           | <b>Frequency inverter</b><br><br><b>FI</b> p. 129 |
| <b>0-10V speed controller</b><br><br><b>MTP010 *</b> p. 128 | <b>Controller</b><br><br><b>Stouch*</b> p. 130                                 | <b>Main switch</b><br><br><b>Main switch</b> p. 164 | <b>Controller</b><br><br><b>SMT-D-4P-EL</b>       |
|                                                             | <b>SPS differential pressure transmitter</b><br><br><b>S-1141**</b> p. 161     | <b>Back draft shutter</b><br><br><b>ATS</b> p. 135  |                                                   |



| Type        | Dimensions [mm] |           |     |     |     |     |     |     |     |     |     |     |     |
|-------------|-----------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|             | $\phi D$        | $\phi D1$ | L   | L1  | L2  | H*  | H1  | H2  | B   | A   | A1  | C   | C1  |
| KF T120 160 | 200             | 200       | 228 | 173 | 414 | 496 | 355 | 80  | 413 | 123 | 109 | 237 | 195 |
| KF T120 180 | 200             | 200       | 237 | 182 | 417 | 524 | 382 | 80  | 456 | 145 | 109 | 270 | 213 |
| KF T120 200 | 200             | 200       | 250 | 196 | 500 | 548 | 407 | 80  | 484 | 145 | 117 | 287 | 228 |
| KF T120 225 | 250             | 250       | 277 | 222 | 500 | 597 | 456 | 80  | 537 | 161 | 131 | 305 | 253 |
| KF T120 250 | 315             | 315       | 290 | 136 | 620 | 651 | 500 | 90  | 577 | 170 | 146 | 342 | 278 |
| KF T120 280 | 315             | 315       | 308 | 253 | 620 | 688 | 537 | 90  | 626 | 180 | 153 | 367 | 304 |
| KF T120 315 | 315             | 315       | 298 | 242 | 620 | 752 | 600 | 90  | 695 | 195 | 142 | 410 | 339 |
| KF T120 355 | 400             | 400       | 340 | 285 | 620 | 905 | 655 | 190 | 770 | 211 | 170 | 455 | 370 |
| KF T120 400 | 400             | 400       | 358 | 298 | 620 | 890 | 640 | 190 | 750 | 202 | 170 | 450 | 355 |

| Type             | Accessories                    |                                         |                                         |
|------------------|--------------------------------|-----------------------------------------|-----------------------------------------|
|                  | Stouch*<br>MTP010*<br>S-1141** | Mains                                   |                                         |
|                  |                                | 220-240V, 1-phase input, 3-phase output | 380-480V, 3-phase input, 3-phase output |
| KF T120 160-4L3  | +                              | ODE-3-12023-1F12                        | ODE-3-140022-3F12                       |
| KF T120 180-4L3  | +                              | ODE-3-12023-1F12                        | ODE-3-140022-3F12                       |
| KF T120 200-4L3  | +                              | ODE-3-120043-1F12                       | ODE-3-140022-3F12                       |
| KF T120 225-4L3* | +                              | ODE-3-120043-1F12                       | ODE-3-140022-3F12                       |
| KF T120 250-4L3* | +                              | ODE-3-120070-1F42                       | ODE-3-240058-3F42                       |
| KF T120 280-4L3  | +                              | ODE-3-220105-1F42                       | ODE-3-240058-3F42                       |
| KF T120 315-4L3  | +                              | ODE-3-120023-1F12                       | ODE-3-140022-3F12                       |
| KF T120 355-4L3  | +                              | ODE-3-120023-1F12                       | ODE-3-140022-3F12                       |
| KF T120 400-4L3  | +                              | ODE-3-120043-1F12                       | ODE-3-140022-3F12                       |

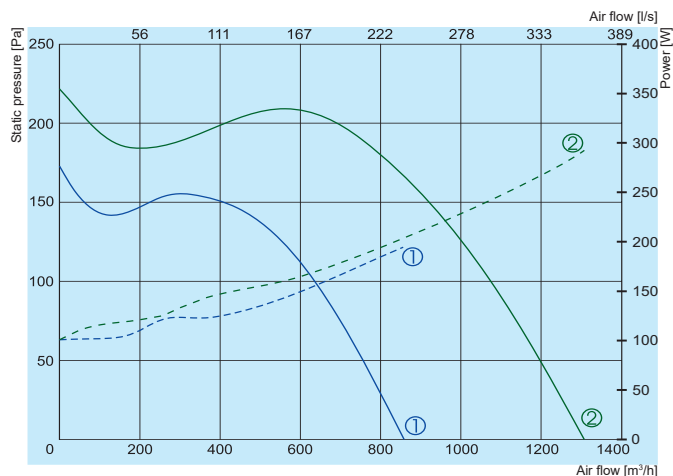
\* performance operating area is limited. Do not exceed the normal current, additional overload protection is required.  
When frequency inverter is used for speed control, the shielded cable must be used for power supply.

|                                                                                                                     |                                                                                                                          |                                                                                                                    |                                                                                                                   |                                                                                                                           |                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Flange-adapter<br><br>FSV p. 137 | Flexible connection<br><br>LSV p. 136 | Mounting clamp<br><br>AP p. 190 | Guard grille<br><br>AGO p. 181 | Back draft shutter<br><br>RSK p. 177 | Circular duct silencer<br><br>AKS p. 174 |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

\* Can be used only with frequency inverters FI

\*\* Pressure transducer S-1141 is supported only with the remote controller Stouch

# KF T120



① **KF T120 160-4L3**  
② **KF T120 180-4L3**

— Performance  
- - - Power consumption

|                                 |                      | <b>160-4L3</b> | <b>180-4L3</b> |
|---------------------------------|----------------------|----------------|----------------|
| Voltage/Frequency               | [V/Hz]               | ~3,400/50      | ~3,400/50      |
| Power consumption               | [kW]                 | 0,18           | 0,29           |
| Current                         | [A]                  | 0,57           | 1,0            |
| Speed                           | [min <sup>-1</sup> ] | 1310           | 1340           |
| Max. airflow                    | [m³/h]               | 849            | 1303           |
| Min/Max ambient air temperature | [°C]                 | -40/+40        | -40/+40        |
| Weight                          | [kg]                 | 22             | 25             |
| Wiring diagram                  |                      | No.1           | No.1           |
| Protection class:               | motor                | IP-54          | IP-54          |
| Comply with ERP 2018            |                      | *              | *              |

\*Fans for transportation of gases hotter than 100°C are not subject to ErP regulations.

## 160-4L3

|             | LWA total, dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                  | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 73               | 62         | 64     | 72     | 60    | 55    | 54    | 48    |
| Outlet      | 75               | 63         | 69     | 73     | 59    | 60    | 56    | 50    |
| Surrounding | 56               | 47         | 52     | 53     | 43    | 40    | 38    | 33    |

Measured at 621 m³/h, 103 Pa

## 180-4L3

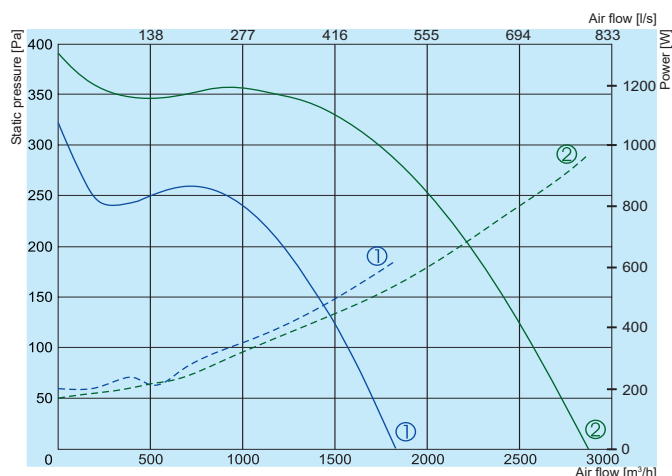
|             | LWA total, dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                  | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 76               | 65         | 67     | 75     | 63    | 58    | 57    | 51    |
| Outlet      | 78               | 68         | 70     | 76     | 65    | 61    | 58    | 53    |
| Surrounding | 60               | 51         | 54     | 57     | 48    | 42    | 40    | 36    |

Measured at 1052 m³/h, 106 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

The company reserves the right to make changes of technical data without prior notice

# KF T120



① **KF T120 200-4L3**  
② **KF T120 225-4L3**

— Performance  
- - - Power consumption

|                                 |                      | <b>200-4L3</b> | <b>225-4L3</b> |
|---------------------------------|----------------------|----------------|----------------|
| Voltage/Frequency               | [V/Hz]               | ~3,400/50      | ~3,400/50      |
| Power consumption               | [kW]                 | 0,54           | 0,92           |
| Current                         | [A]                  | 1,44           | 1,72           |
| Speed                           | [min <sup>-1</sup> ] | 1390           | 1430           |
| Max. airflow                    | [m³/h]               | 1826           | 2860           |
| Min/Max ambient air temperature | [°C]                 | -40/+40        | -40/+40        |
| Weight                          | [kg]                 | 29             | 34             |
| Wiring diagram                  |                      | No. 1          | No. 1          |
| Protection class:               | motor                | IP-54          | IP-54          |
| Comply with ERP 2018            |                      | *              | *              |

\*Fans for transportation of gases hotter than 100°C are not subject to ErP regulations.

## 200-4L3

| 200-4L3     | Lwa total,<br>dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|---------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                     | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 79                  | 69         | 72     | 77     | 65    | 63    | 58    | 55    |
| Outlet      | 82                  | 73         | 75     | 80     | 66    | 64    | 60    | 58    |
| Surrounding | 64                  | 56         | 58     | 62     | 49    | 47    | 42    | 40    |

Measured at 1570 m³/h, 101 Pa

## 225-4L3

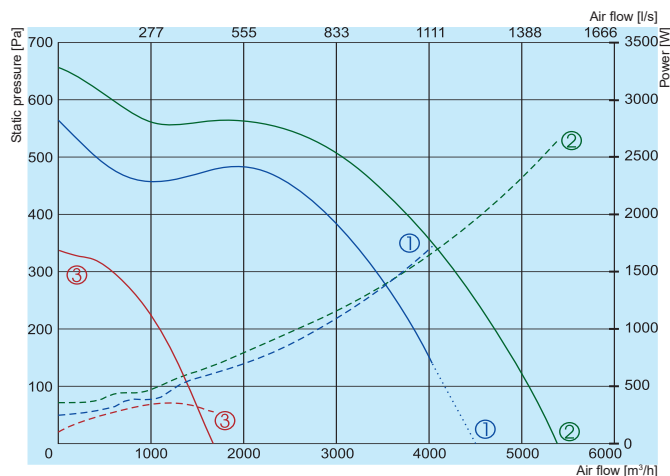
| 225-4L3     | Lwa total,<br>dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|---------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                     | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 83                  | 72         | 74     | 81     | 70    | 68    | 63    | 60    |
| Outlet      | 85                  | 75         | 79     | 82     | 71    | 69    | 65    | 61    |
| Surrounding | 69                  | 59         | 63     | 66     | 54    | 51    | 47    | 44    |

Measured at 2585 m³/h, 102 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

The company reserves the right to make changes of technical data without prior notice

# KF T120



- ① KF T120 250-4L3
  - ② KF T120 280-4L3
  - ③ KF T120 315-4L3
- Performance  
 - - - Power consumption  
 ..... Not operating zone

|                                 |                      | 250-4L3   | 280-4L3   | 315-4L3   |
|---------------------------------|----------------------|-----------|-----------|-----------|
| Voltage/Frequency               | [V/Hz]               | ~3,400/50 | ~3,400/50 | ~3,400/50 |
| Power consumption               | [kW]                 | 1,6       | 2,66      | 0,18      |
| Current                         | [A]                  | 3,37      | 4,7       | 0,68      |
| Speed                           | [min <sup>-1</sup> ] | 1430      | 1440      | 1330      |
| Max. airflow                    | [m³/h]               | 3860      | 5236      | 1676      |
| Min/Max ambient air temperature | [°C]                 | -40/+40   | -40/+40   | -40/+40   |
| Weight                          | [kg]                 | 55        | 45        | 45        |
| Wiring diagram                  |                      | No.1      | No.1      | No.1      |
| Protection class:               | motor                | IP-54     | IP-54     | IP-54     |
| Comply with ERP 2018            |                      | *         | *         | *         |

\*Fans for transportation of gases hotter than 100°C are not subject to ErP regulations.

## 250-4L3

|             | Lwa total, dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                  | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 86               | 78         | 80     | 83     | 73    | 70    | 67    | 63    |
| Outlet      | 88               | 80         | 81     | 86     | 75    | 74    | 66    | 65    |
| Surrounding | 72               | 64         | 66     | 68     | 59    | 56    | 49    | 48    |

Measured at 3860 m³/h, 190 Pa

## 280-4L3

|             | Lwa total, dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                  | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 90               | 82         | 83     | 88     | 75    | 71    | 68    | 67    |
| Outlet      | 92               | 85         | 83     | 89     | 78    | 76    | 68    | 69    |
| Surrounding | 74               | 67         | 68     | 71     | 60    | 56    | 51    | 50    |

Measured at 5077 m³/h, 100 Pa

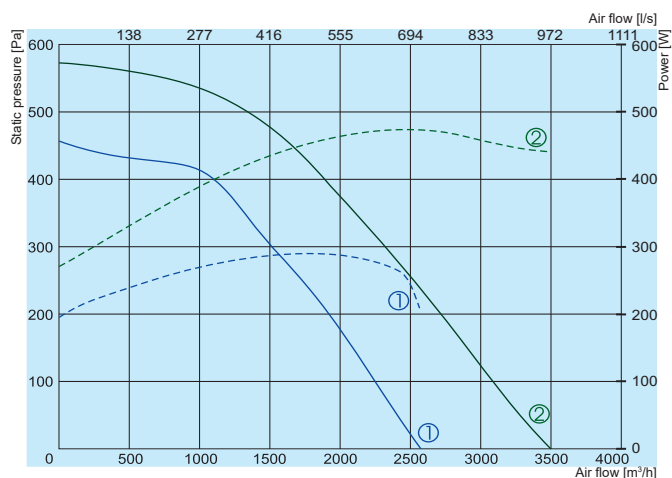
## 315-4L3

|             | Lwa total, dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                  | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 78               | 67         | 73     | 74     | 66    | 64    | 56    | 54    |
| Outlet      | 80               | 69         | 74     | 77     | 67    | 65    | 59    | 55    |
| Surrounding | 63               | 53         | 59     | 59     | 50    | 47    | 40    | 38    |

Measured at 1401 m³/h, 100 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

# KF T120



① **KF T120 355-4L3**  
② **KF T120 400-4L3**

— Performance  
- - - Power consumption

|                                 |                      | <b>355-4L3</b> | <b>400-4L3</b> |
|---------------------------------|----------------------|----------------|----------------|
| Voltage/Frequency               | [V/Hz]               | ~3,400/50      | ~3,400/50      |
| Power consumption               | [kW]                 | 0,29           | 0,47           |
| Current                         | [A]                  | 0,98           | 1,45           |
| Speed                           | [min <sup>-1</sup> ] | 1340           | 1390           |
| Max. airflow                    | [m³/h]               | 2561           | 3487           |
| Min/Max ambient air temperature | [°C]                 | -40/+40        | -40/+40        |
| Weight                          | [kg]                 | 53             | 56             |
| Wiring diagram                  |                      | No.1           | No.1           |
| Protection class:               | motor                | IP-54          | IP-54          |
| Comply with ERP 2018            |                      | *              | *              |

\*Fans for transportation of gases hotter than 100°C are not subject to ErP regulations.

## 355-4L3

| 355-4L3     | Lwa total,<br>dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|---------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                     | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 84                  | 75         | 78     | 82     | 71    | 70    | 63    | 58    |
| Outlet      | 86                  | 77         | 79     | 83     | 73    | 72    | 65    | 61    |
| Surrounding | 67                  | 61         | 62     | 63     | 56    | 54    | 47    | 43    |

Measured at 2219 m³/h, 104 Pa

## 400-4L3

| 400-4L3     | Lwa total,<br>dB(A) | Lwa, dB(A) |        |        |       |       |       |       |
|-------------|---------------------|------------|--------|--------|-------|-------|-------|-------|
|             |                     | 125 Hz     | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Inlet       | 86                  | 77         | 76     | 82     | 80    | 74    | 69    | 68    |
| Outlet      | 88                  | 79         | 81     | 85     | 78    | 75    | 71    | 70    |
| Surrounding | 71                  | 63         | 65     | 67     | 63    | 58    | 53    | 52    |

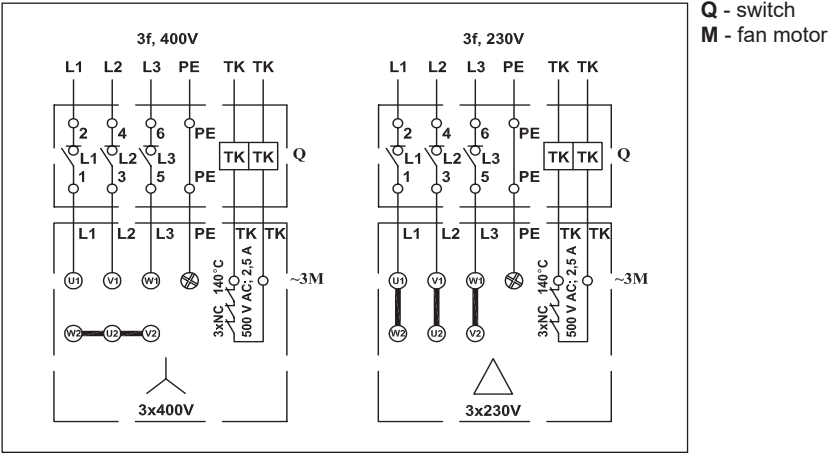
Measured at 2956 m³/h, 134 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

The company reserves the right to make changes of technical data without prior notice

# KF T120

Wiring diagram No. 1\*



\* Fans must be connected with frequency inverters (if used) with screened cable complying EMC standards.