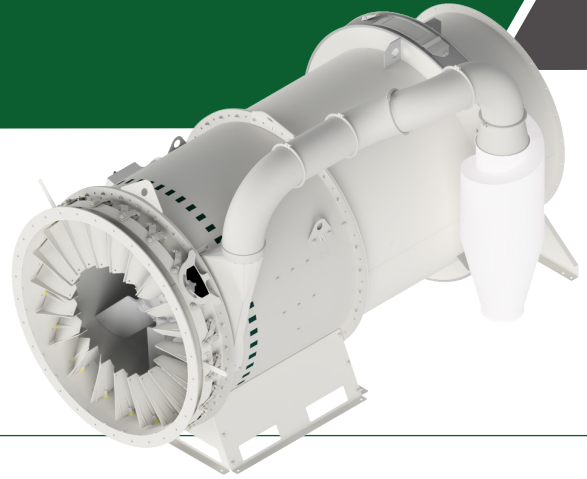


**CYCLOFAN****TYPE CF-1140****GENERAL**

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| Brand       | Cimbria                                                          |
| Designation | Cyclofan                                                         |
| Model       | CF-1140                                                          |
| Use         | Industry                                                         |
| Application | Moving air within a duct in large-volume dust collection systems |

**FAN CATEGORY**

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Casing construction           | Welded/bolted                                    |
| Drive arrangement             | Direct drive                                     |
| Inlet and outlet conditions   | Inlet and outlet openings directly by the casing |
| Method of fan Control         | Vane control (optional)                          |
| Outlet position               | Horizontal or upward discharge                   |
| Motor position                | Down-stream                                      |
| Overall length, no guide vane | 2 310 mm                                         |
| Overall length, with vane     | 2 550 mm                                         |
| Overall height                | 1 781 mm                                         |
| Overall width                 | 1 717 mm                                         |

**EFFICIENCY**

|                      |                          |
|----------------------|--------------------------|
| Efficiency grade     | 40                       |
| Measurement category | C                        |
| Efficiency category  | Static                   |
| Efficiency*          | 40                       |
| Motor power input*   | 32.6 kW                  |
| Flow rate*           | 62 650 m <sup>3</sup> /h |
| Pressure             | 750 Pa                   |
| Efficiency**         | 45.6                     |
| Motor power input**  | 30.6 kW                  |
| Flow rate**          | 66 952 m <sup>3</sup> /h |
| Rotations per minute | 1 475 rpm                |
| Assumed drive type   | Fixed                    |
| Specific ratio       | 0.992                    |

\*\* At operating point -  $\rho = 1.135 \text{ kg/m}^3$ \* At operating point -  $\rho = 1.2 \text{ kg/m}^3$ 

Note: Efficiency calculated according to Commission Regulation (EU) 327/2011.

**IMPELLER DATA**

|                   |           |
|-------------------|-----------|
| Impeller diameter | Ø1 115 mm |
| No. of blades     | 8         |
| Pitch angle       | 35°       |
| Blade type        | 6W        |
| Blade material    | PAG       |

**WEIGHT**

|                         |        |
|-------------------------|--------|
| Weight, no guide vane   | 580 kg |
| Weight, with guide vane | 662 kg |

**ELECTRICAL RATINGS**

|                    |        |
|--------------------|--------|
| Motor output       | 30 kW  |
| Motor voltage      | 400 V  |
| Motor frequency    | 50 Hz  |
| Motor ampere       | 56.5 A |
| Motor power factor | 0.83   |
| Motor efficiency   | 92.3 % |

**NOISE**

| Sound power level $L_w(C, out)^*$ 105 dB(A) |       |        |        |        |       |       |       |       |
|---------------------------------------------|-------|--------|--------|--------|-------|-------|-------|-------|
| 32 Hz                                       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz |
| 58                                          | 71    | 85     | 97     | 99     | 100   | 97    | 93    | 86    |

\* Measured at 750Pa Static Pressure

Note: Noise calculated according to ISO 13347-3.

**COMPLIANCE**

|                               |     |
|-------------------------------|-----|
| EU machinery legislation      | Yes |
| EU fan efficiency legislation | Yes |
| EU ATEX legislation           | No  |
| EU food contact legislation   | No  |

**ENVIRONMENTAL CONDITIONS**

|             |                     |
|-------------|---------------------|
| Environment | Indoors or outdoors |
| Temperature | From -20°C to +40°C |
| Altitude    | Up to 1 000 m       |

**SURFACE PROTECTION**

|        |                |
|--------|----------------|
| Casing | Pre-galvanised |
|--------|----------------|

**LIFETIME**

|                     |          |
|---------------------|----------|
| Intended life limit | 20 years |
|---------------------|----------|

**DUST SEPERATION**

|                            |        |
|----------------------------|--------|
| Dust separation efficiency | 92.7 % |
|----------------------------|--------|

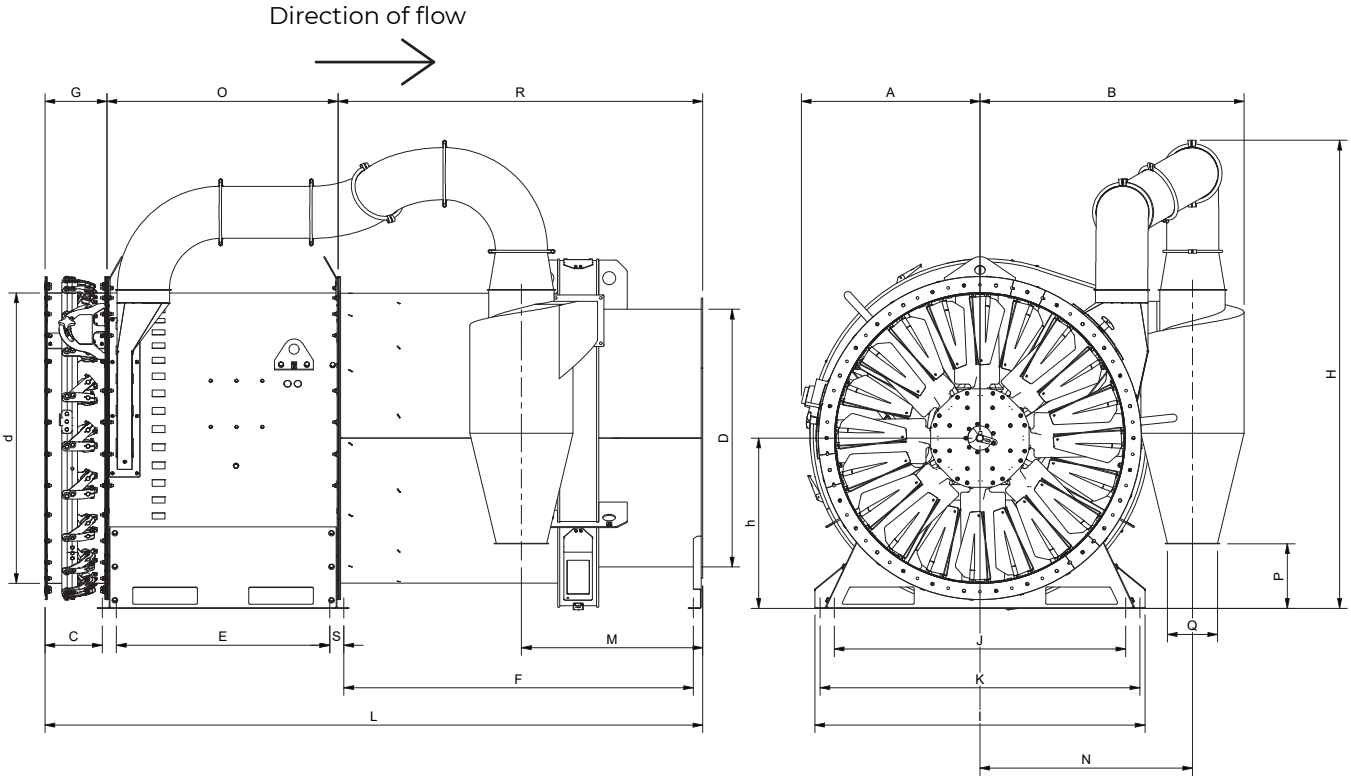
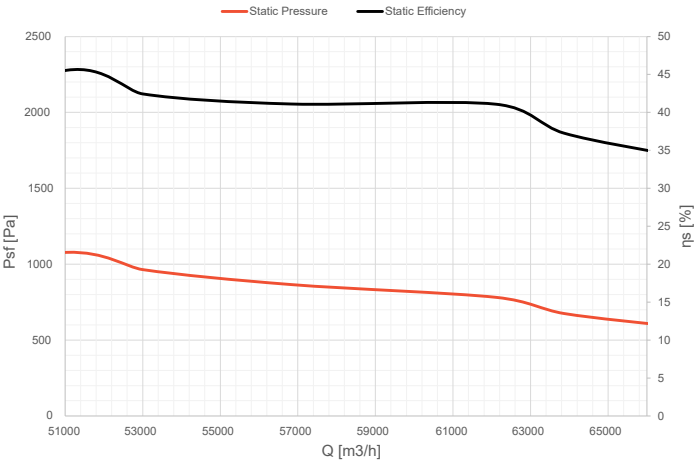
Note: Dust separation efficiency measured at 750Pa and dust concentration 100 mg/m<sup>3</sup>.

 DRYING

CYCLOFAN

TYPE CF-1140

PERFORMANCE



TECHNICAL DIMENSIONS

| Fan    | A     | B    | C     | D    | d     | E   | F    | G   | H    | h   | I    | J    | K    | L    | M   | N   | O   | P   | Q    | R    | S  |
|--------|-------|------|-------|------|-------|-----|------|-----|------|-----|------|------|------|------|-----|-----|-----|-----|------|------|----|
| CF1140 | 692.6 | 1024 | 221.5 | Ø995 | Ø1120 | 827 | 1355 | 240 | 1815 | 660 | 1280 | 1130 | 1240 | 2550 | 703 | 824 | 896 | 251 | Ø200 | 1410 | 55 |

