



|                  |   |              |                          |
|------------------|---|--------------|--------------------------|
| Quotation Number | : | Project Code | :                        |
| Project Name     | : | Customer     | :                        |
| Item Reference:  | : | Date:        | : Monday, August 2, 2021 |

|                                     |                            |
|-------------------------------------|----------------------------|
| Fan Code                            | 50 MaXfan Compac           |
| Fan Diameter / Size                 | 500 Size / mm              |
| Fan Speed                           | 2840 rpm                   |
| Velocity                            | 9.0 m/s                    |
| Blade Angle                         | 12°                        |
| Installation Type / Form of Running | D / AB (Vertical)          |
| Fan Casing                          | Long                       |
| Requested Duty                      | 1.75m³/s @ 480 Pa (static) |
| Outlet Dynamic Pressure             | 49 Pa                      |

|                  |         |
|------------------|---------|
| Duty Shaft Power | 1.42 kW |
| Max Shaft Power  | 1.61 kW |
| Total Efficiency | 67.1 %  |

|                   |                             |
|-------------------|-----------------------------|
| Motor Frame       | 80 [ Class F ]              |
| Motor Rating      | 1.73 kW [ IE2 ]             |
| Full Load Current | 6.16 A                      |
| Starting Current  | 35.5 A                      |
| Motor Mounting    | Pad                         |
| Electrical Supply | 220-240 Volts 50 Hz 1 Phase |
| Start Type        | DOL                         |
| Motor Winding     | Standard                    |
| Enclosure         | Standard All                |

|                          |                            |
|--------------------------|----------------------------|
| ErP [FMEG] Rating        | N 59 (ErP Compliant)       |
| ErP [FMEG] Target        | N 58                       |
| FMEG Blade Angle [Range] | 0° [ 0° - 0° ]             |
| Measurement Category     | D (Total)                  |
| VSD                      | N                          |
| Fan + Motor Efficiency   | 55.0% (1.99 m³/s @ 468 Pa) |
| Motor Input Power (ErP)  | 1.70 kW                    |

|                     |                               |
|---------------------|-------------------------------|
| SFP value           | 0.99 W/(l/s) @ Requested Duty |
| Power from mains    | 1.75 kW                       |
| Energy Consumption  | 5238 kWh (3000 h/year)        |
| Running Cost / Year | £629                          |

|                |                                  |
|----------------|----------------------------------|
| Air Density    | 1.2 kg/m³ / 20 °C / 0 m / 50% RH |
| Smoke Venting  | Non Smoke Venting                |
| Product Number | EJ513255                         |

Performance data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with ISO 5801 and is specifically applicable for Ducted installations. When an electronic controller is incorporated, enhanced motor noise can occur - particularly when the operating speed is well below maximum. FWL therefore recommend using an auto transformer speed controller for noise sensitive applications. Bifurcateds are Erp exempt when used continuously at >100C. They are not for use in the EEA at lower temperatures.

The MaXfan Compac includes a preprogrammed inverter drive to operate via 1 phase supply, offering full speed control and optimised performance.

Acoustic data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with BS 848 Pt 2, 1985 / BS EN ISO 5136 under Ducted conditions. The single figure provided is the overall Inlet sound pressure level at the specified distance, under spherical, free field conditions.

Acoustic figures for adjusted running speeds have been interpolated and are for reference only.

This Offer is made subject to the latest version of our A100-19 Terms and Conditions, a copy of which can be made available on request.

|           | Sound Spectrum (Hz) |     |     |     |    |    |    |    | Overall |             |
|-----------|---------------------|-----|-----|-----|----|----|----|----|---------|-------------|
|           | 63                  | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Lw*     | LpA @ 3 m** |
| Inlet*    | 80                  | 82  | 87  | 86  | 91 | 88 | 82 | 76 | 95      | 74          |
| Outlet*   | 82                  | 84  | 89  | 87  | 92 | 88 | 84 | 78 | 96      | 75          |
| Breakout* | 72                  | 66  | 67  | 64  | 67 | 60 | 62 | 54 | 76      | 50          |

\* Lw dB re 10<sup>-12</sup> W

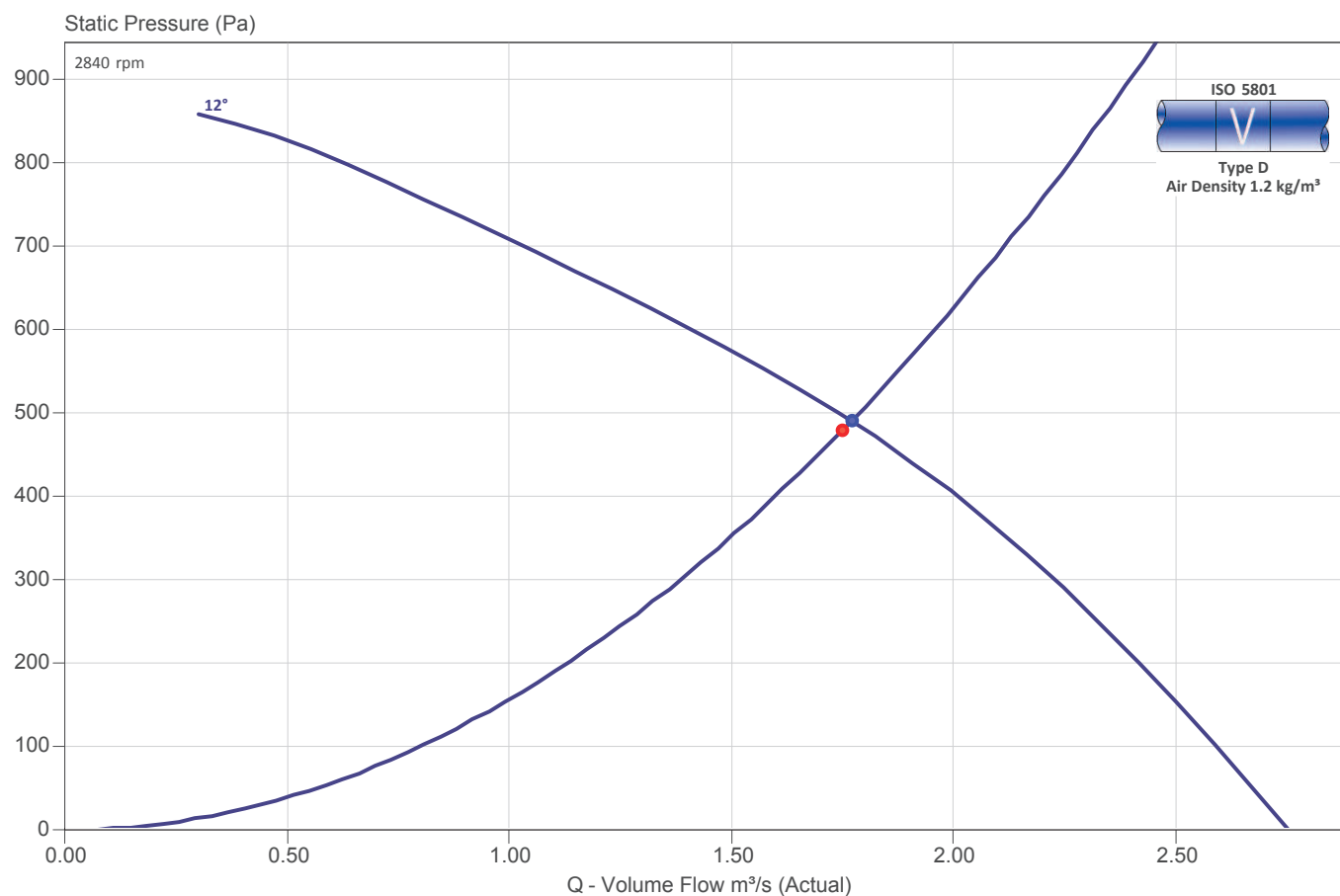
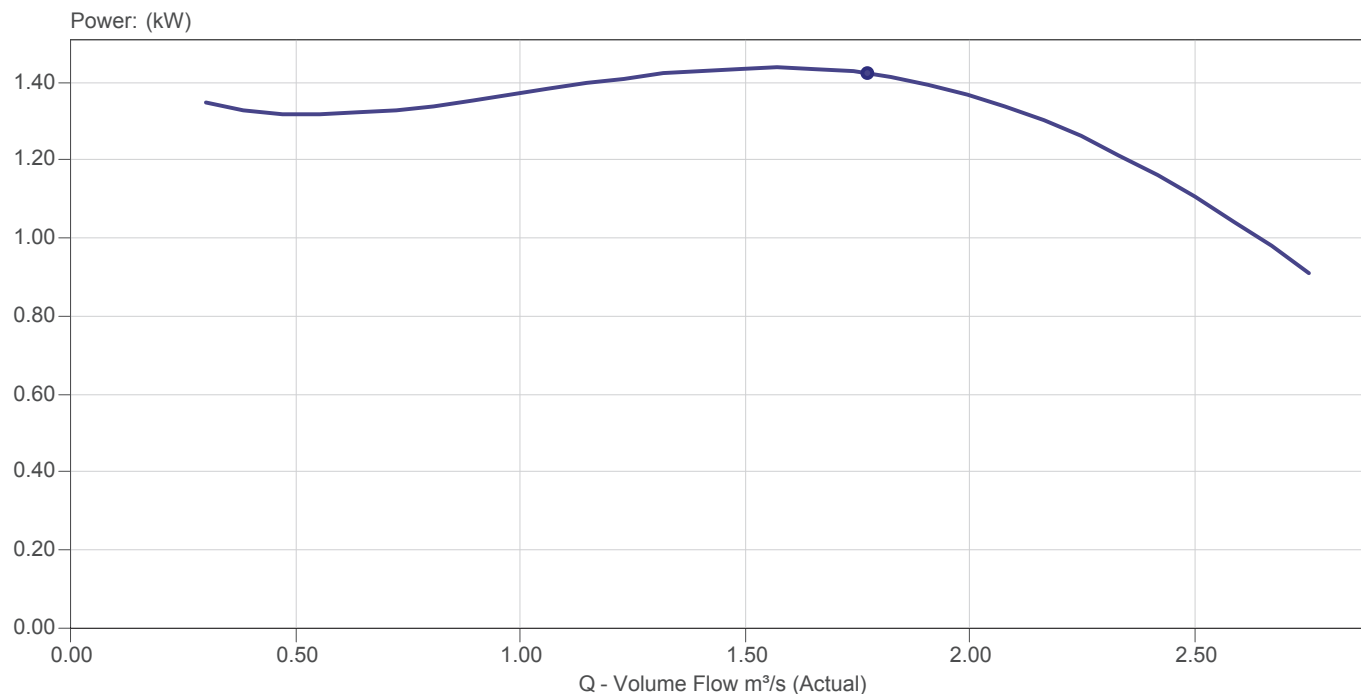
\*\* dBA re 2x10<sup>-5</sup> Pa

Sound data at requested duty.

| Description                 | Qty |
|-----------------------------|-----|
| <b>Fan</b>                  |     |
| EJ513255 - 50 MaXfan Compac | 1   |
| <b>Accessories</b>          |     |
| Inverter                    | 1   |
| Thermistors                 | 1   |



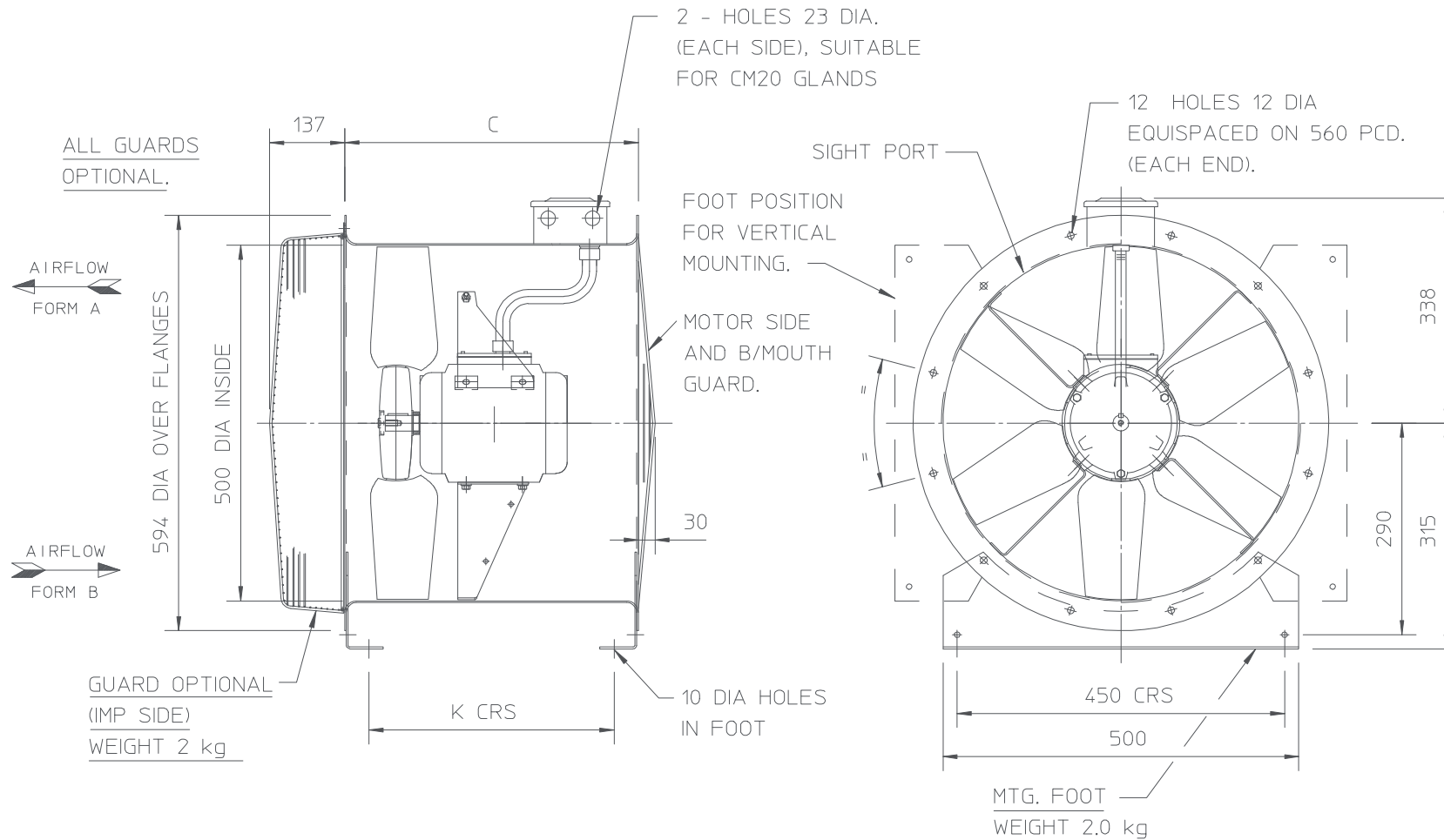
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|             |     |
|-------------|-----|
| C           | 375 |
| K           | 290 |
| Weight (kg) | 32  |

Notes : Dimensions shown in mm / Weight in kg

Reference:D275255

This drawing shows dimensions that should be used as a guide only and are subject to change. Certified drawings are available on request.