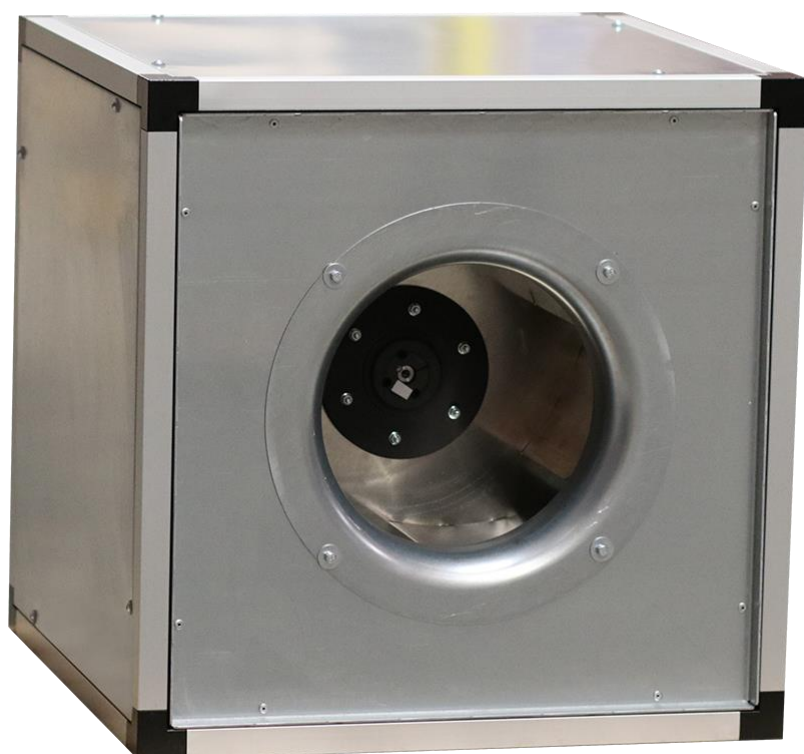




## **POWERLINE KITCHEN FAN SERIES**

Centrifugal Box Fan

# POWERLINE KITCHEN FAN

- Air volume rates of up to 7.885 m<sup>3</sup>/s
- Static pressures up to 1350 Pa
- Suitable for operating temperatures up to +120°C (in-duct)
- Interchangeable double skinned panels to easily change airflow direction
- Straight through airflow or 90° Outlet
- Available in various airflow configurations, extending from 355 to 710mm diameter

**A multi-discharge, double skinned fan unit incorporating a high performance backward curved impeller. The motor is situated out of the airstream making the range suitable for more arduous and elevated temperature applications.**

## High temperature

Motors are out of the airstream and are not affected by contaminants in the ventilated air. The range is suitable for a wide range of applications from contaminated air to elevated temperatures up to 120°C.

## Intelligent Design

Designed to maximise performance and reduce the use of energy, having moveable panels allowing the outlet position to be altered on site to suit installation.

## Motor

Supplied with Class F insulation direct drive TEFC motors.

Electricity supply- Three phase as a standard

## Construction

The casing shall be constructed from self-supporting corrosion resistant extruded aluminium section assembled with aluminium corners and 25mm thick double skinned panels.

Double skin panels are manufactured from pre-painted galvanised steel for outer skin and pre-galvanised steel inner steel and in-filled with 25mm polyurethane (PU) injected insulation.

Impellers are backward curved centrifugal and made from aluminium.

## Typical Applications

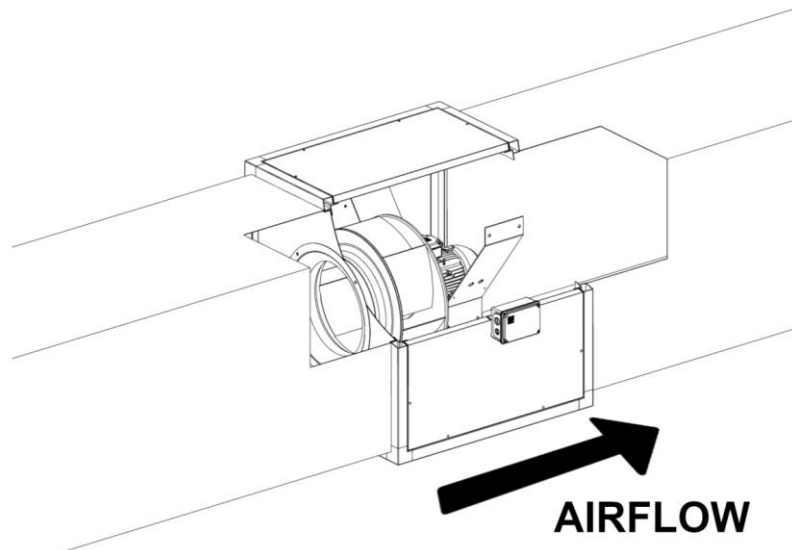
- |               |            |             |
|---------------|------------|-------------|
| • Kitchens    | • Schools  | • Shops     |
| • Restaurants | • Colleges | • Factories |

## POWERLINE KITCHEN FAN

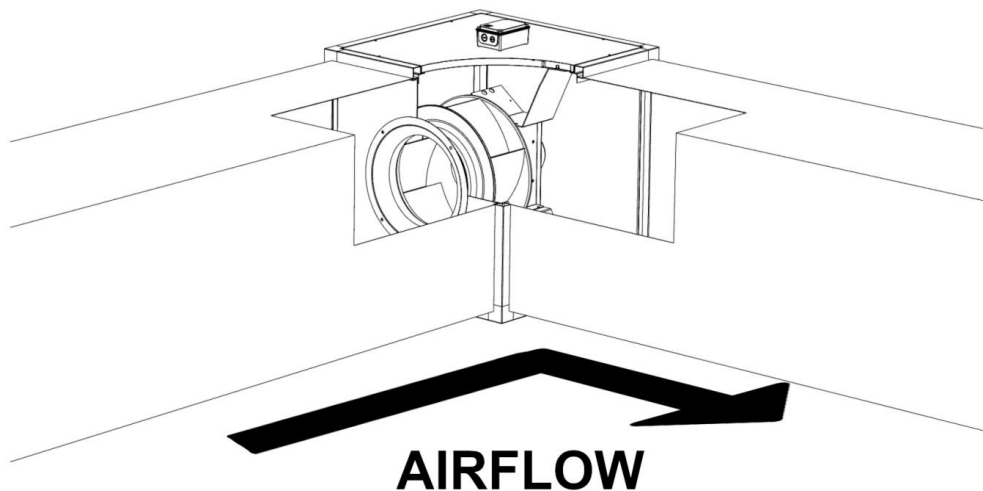
### Installation Examples

The image shown is just an example of a typical installation. The Powerline Kitchen fan range is designed with rearrangeable panels, providing with the flexibility to customize the installation according to specific needs. If in doubt, please contact Elta

### Inline Airflow Setup



### 90° Airflow Setup

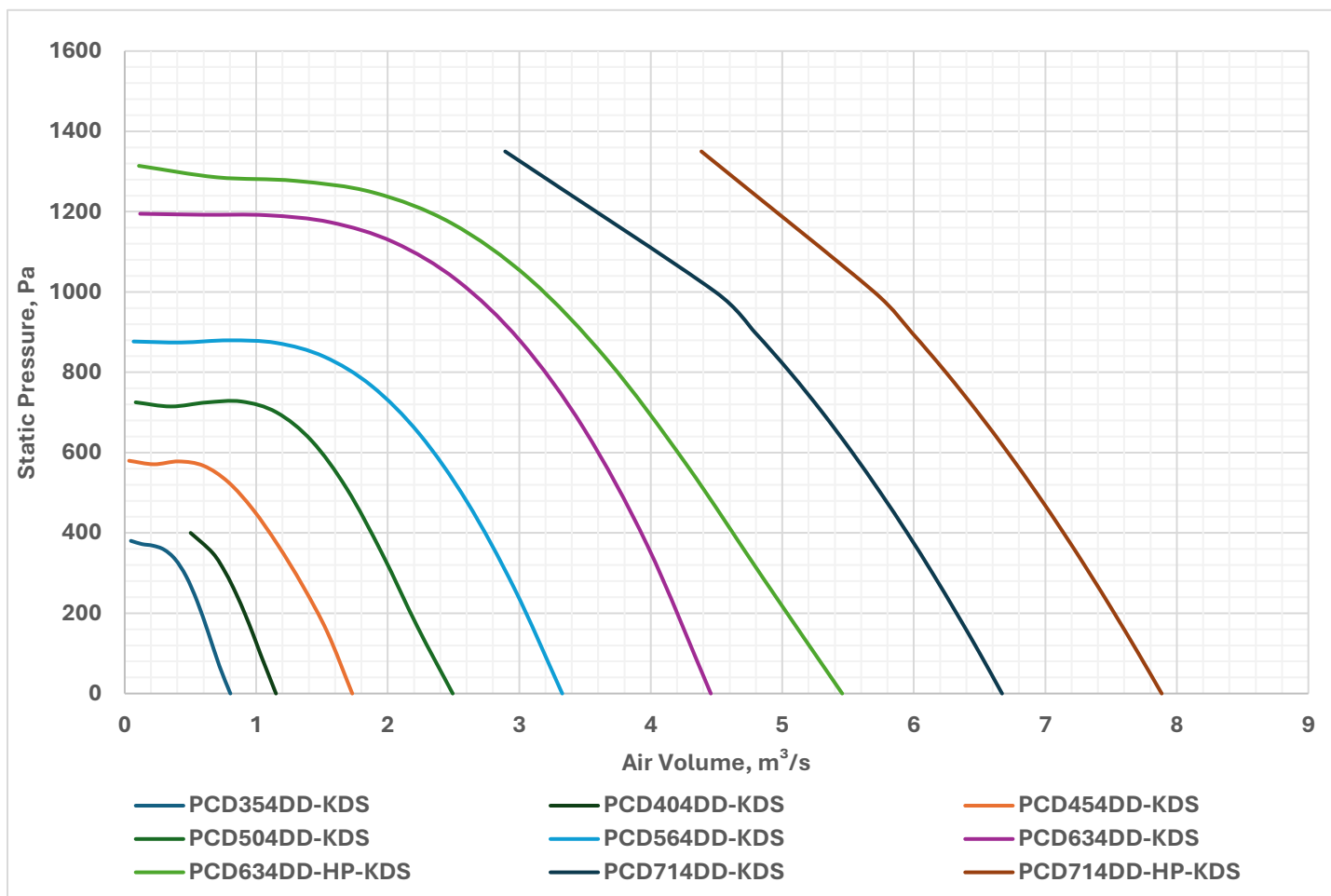


Elta Fans Limited has a policy of continuous product development and improvement and therefore reserves the right to supply products which may differ from those illustrated and described in this publication.

Confirmation of dimensions and data will be supplied on request.

# POWERLINE KITCHEN FAN

## Performance Curves



## Additional Information

Performance curves shown are based on nominal speeds. As motor speeds may vary from one manufacturer to another, and from one motor type to another, it is possible actual fan speeds may differ and, therefore, the performance of the fan.

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# POWERLINE KITCHEN FAN

## Technical and Sound Data

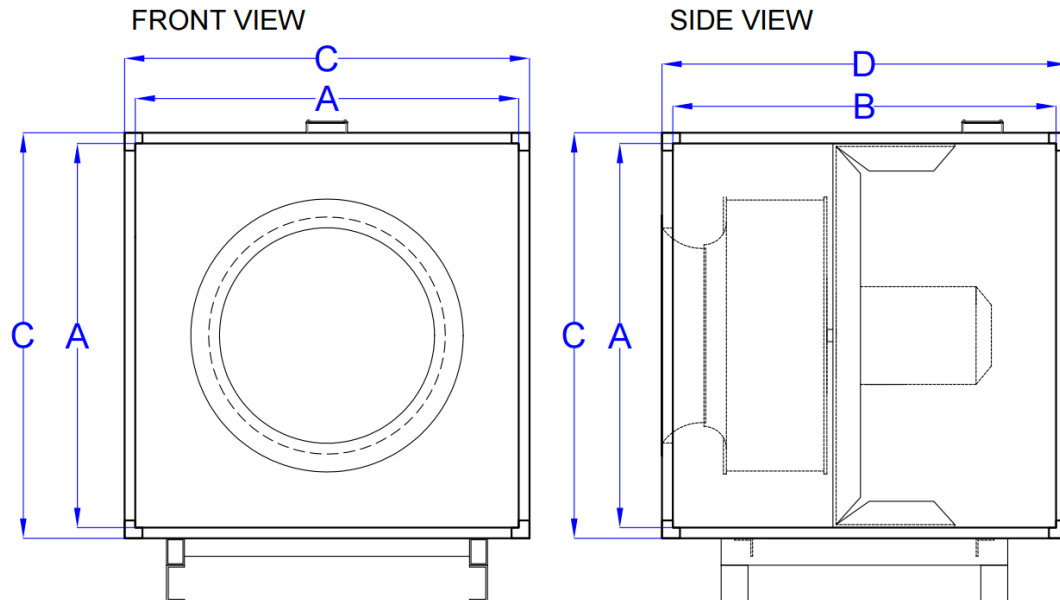
| Product Code    | Speed r/min | Motor kW |          | Sound Power Level dBW @ Octave Band Hz   |       |       |       |      |      |      |      | Total dB |
|-----------------|-------------|----------|----------|------------------------------------------|-------|-------|-------|------|------|------|------|----------|
|                 |             |          |          | 63Hz                                     | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz |          |
| PCD354DD-KDS    | 1440        | 0.55     | Inlet    | 79                                       | 76    | 72    | 69    | 60   | 63   | 62   | 52   | 82       |
|                 |             |          | Outlet   | 82                                       | 77    | 70    | 72    | 67   | 65   | 62   | 52   | 84       |
|                 |             |          | Breakout | 81                                       | 75    | 63    | 57    | 49   | 46   | 41   | 27   | 82       |
| PCD404DD-KDS    | 1440        | 0.55     | Inlet    | 82                                       | 80    | 75    | 72    | 65   | 66   | 66   | 59   | 85       |
|                 |             |          | Outlet   | 82                                       | 82    | 73    | 73    | 72   | 69   | 66   | 62   | 86       |
|                 |             |          | Breakout | 82                                       | 79    | 66    | 59    | 50   | 43   | 38   | 34   | 84       |
| PCD454DD-KDS    | 1440        | 0.75     | Inlet    | 85                                       | 83    | 78    | 75    | 69   | 70   | 70   | 66   | 88       |
|                 |             |          | Outlet   | 88                                       | 84    | 77    | 77    | 76   | 72   | 71   | 70   | 90       |
|                 |             |          | Breakout | 86                                       | 72    | 70    | 62    | 54   | 46   | 43   | 42   | 86       |
| PCD504DD-KDS    | 1440        | 1.5      | Inlet    | 88                                       | 88    | 83    | 77    | 73   | 74   | 74   | 70   | 92       |
|                 |             |          | Outlet   | 91                                       | 89    | 82    | 81    | 81   | 75   | 74   | 74   | 94       |
|                 |             |          | Breakout | 90                                       | 87    | 74    | 65    | 59   | 54   | 49   | 47   | 92       |
| PCD564DD-KDS    | 1440        | 3.0      | Inlet    | 91                                       | 93    | 89    | 80    | 78   | 77   | 78   | 75   | 96       |
|                 |             |          | Outlet   | 95                                       | 95    | 87    | 86    | 87   | 78   | 78   | 77   | 99       |
|                 |             |          | Breakout | 93                                       | 92    | 80    | 69    | 65   | 58   | 53   | 51   | 96       |
| PCD634DD-KDS    | 1440        | 5.5      | Inlet    | 92                                       | 96    | 92    | 80    | 81   | 79   | 80   | 78   | 99       |
|                 |             |          | Outlet   | 96                                       | 99    | 90    | 88    | 90   | 79   | 79   | 79   | 102      |
|                 |             |          | Breakout | 94                                       | 96    | 83    | 70    | 68   | 59   | 55   | 54   | 98       |
| PCD634DD-HP-KDS | 1440        | 5.5      | Inlet    | 95                                       | 104   | 98    | 79    | 83   | 79   | 71   | 78   | 105      |
|                 |             |          | Outlet   | 99                                       | 107   | 96    | 87    | 92   | 79   | 70   | 79   | 108      |
|                 |             |          | Breakout | 95                                       | 98    | 83    | 65    | 64   | 53   | 38   | 42   | 100      |
| PCD714DD-KDS    | 1440        | 7.5      | Inlet    | *Contact Elta Fans Sales for information |       |       |       |      |      |      |      |          |
|                 |             |          | Outlet   |                                          |       |       |       |      |      |      |      |          |
|                 |             |          | Breakout |                                          |       |       |       |      |      |      |      |          |
| PCD714DD-HP-KDS | 1440        | 11.0     | Inlet    | *Contact Elta Fans Sales for information |       |       |       |      |      |      |      |          |
|                 |             |          | Outlet   |                                          |       |       |       |      |      |      |      |          |
|                 |             |          | Breakout |                                          |       |       |       |      |      |      |      |          |

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Confirmation of dimensions and data will be supplied on request.

# POWERLINE KITCHEN FAN

## Dimensions



| Product Code    | Dimension, mm |      |      |      | Approximate Weight, kg |
|-----------------|---------------|------|------|------|------------------------|
|                 | A             | B    | C    | D    |                        |
| PCD354DD-KDS    | 440           | 440  | 500  | 500  | 50                     |
| PCD404DD-KDS    | 610           | 610  | 670  | 670  | 74                     |
| PCD454DD-KDS    | 610           | 610  | 670  | 670  | 75                     |
| PCD504DD-KDS    | 760           | 760  | 820  | 820  | 108                    |
| PCD564DD-KDS    | 760           | 760  | 820  | 820  | 120                    |
| PCD634DD-KDS    | 760           | 760  | 820  | 820  | 135                    |
| PCD634DD-HP-KDS | 1070          | 1070 | 1130 | 1130 | 155                    |
| PCD714DD-KDS    | 1070          | 1070 | 1130 | 1130 | 155                    |
| PCD714DD-HP-KDS | 1070          | 1070 | 1130 | 1130 | 160                    |

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