

### EuroSeries (SDX EC)

- Available in sizes 125 to 315
- EC Motor, backward curved impeller
- Protected to IPX2
- Mounting for internal use
- Integral speed setting potentiometer
- 0-10V potentiometer speed controllable
- Operating temperatures from -25°C up to +60°C
- Quality Assurance to BS EN ISO 9001:2015
- 2 Year Warranty



| CODE     | DESCRIPTION                |
|----------|----------------------------|
| SDX125EC | EuroSeries® (SDX EC) 125mm |
| SDX150EC | EuroSeries® (SDX EC) 150mm |
| SDX200EC | EuroSeries® (SDX EC) 200mm |
| SDX250EC | EuroSeries® (SDX EC) 250mm |
| SDX315EC | EuroSeries® (SDX EC) 315mm |

The SDX EC Euroflow in-line centrifugal duct fans are designed around an efficient backward curved centrifugal impeller and EC motor to ensure a compact and efficient unit, providing high performance and controllability as standard.

The in-line fan casing is constructed from epoxy coated pressed steel and incorporates an aerodynamically designed airflow guide vane, ensuring maximum performance from the unit while maintaining minimum noise levels. All models are supplied with a simple mounting foot for ease of installation.

The SDX EC range is available in five model sizes: 125, 150, 200, 250 & 315mm diameter as standard performance.

The range provides a performance up to 0.36m<sup>3</sup>/s with a maximum pressure development of 600 Pa.

The SDX EC range is suitable for the extraction of clean air only. It is not suitable for extracting or transporting grinding dust, soot, explosive or other aggressive gases etc.

#### Impellers

All SDX EC units feature an energy efficient, Class 1, EC/DC external rotor motor and backward curved impeller assembly specifically chosen for performance and non-overloading characteristics. The assembly is dynamically balanced to DIN ISO 1940 Grade 6.3, IP44 according to BS EN 60529.

Ball bearings are greased for life. Insulation is Class 'B' (from -25°C to +60°C). All models incorporate internal electronic overload protection and soft start function.

#### Control

Every SDX EC unit is fitted with a integral commissioning potentiometer giving the ability to set the exact duty required at commissioning. Alternatively, the integral potentiometer can be bypassed to allow remote speed control via an external 0-10V potentiometer.

#### Terminal Box

An IP55 terminal box fitted to the casing with multiple cable entry positions.

#### Performance

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 1m from the fan.

#### Quality Assurance

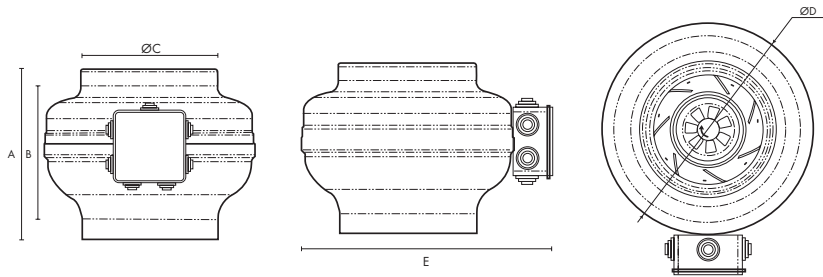
Design and manufacture is in accordance with the standard for quality management systems BS EN ISO 9001:1994.

#### Accessories

A full range of accessories are available with the Euroflow in-line centrifugal duct fans such as:

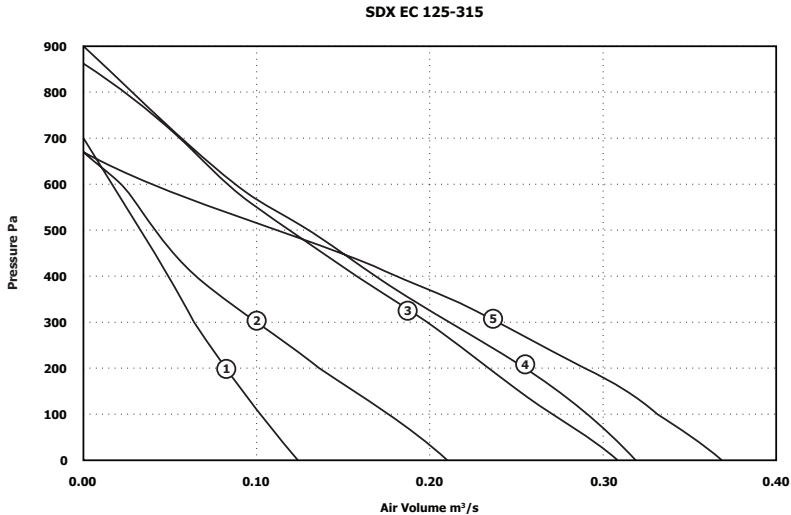
- 0-10V potentiometer
- Pre & Secondary Filter Cassettes
- Electric Heater Batteries
- In-Line Attenuators
- Backdraught Shutters
- Fast Clamps
- Flexible Ducting
- Wall Terminals
- Roof Terminals

Dimensions (mm)



| Unit Size | A   | B   | ØC  | ØD  | E   | kg  |
|-----------|-----|-----|-----|-----|-----|-----|
| SDX125EC  | 207 | 175 | 125 | 245 | 290 | 2.1 |
| SDX150EC  | 222 | 172 | 150 | 344 | 386 | 3.1 |
| SDX200EC  | 240 | 190 | 200 | 345 | 390 | 3.7 |
| SDX250EC  | 245 | 185 | 250 | 345 | 390 | 3.6 |
| SDX315EC  | 250 | 180 | 315 | 400 | 445 | 4.6 |

Performance Curves



Performance Guide

| Performance Guide |                |              |       |              |               | m³/s @ Pa |      |      |      |      |      |      |      |      |      |      | MOTOR<br>KW | F.L.C<br>AMPS | DBA @<br>3M |
|-------------------|----------------|--------------|-------|--------------|---------------|-----------|------|------|------|------|------|------|------|------|------|------|-------------|---------------|-------------|
| DIA.              | MOTOR<br>PHASE | STOCK<br>REF | R.P.M | IP<br>RATING | CURVE<br>REF. |           | 0    | 50   | 100  | 150  | 200  | 300  | 400  | 500  | 600  | 700  |             |               |             |
| 125               | 1              | SDX125EC     | 3200  | IPX2         | 1             | m³/s      | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.06 | 0.05 | 0.03 | 0.02 |      | 0.08        | 0.75          | 35          |
|                   |                |              |       |              |               | kW        | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 |      |             |               |             |
|                   |                |              |       |              |               | W/l/s     | 0.67 | 0.73 | 0.81 | 0.89 | 1.01 | 1.27 | 1.59 | 2.07 | 3.96 |      |             |               |             |
| 150               | 1              | SDX150EC     | 2550  | IPX2         | 2             | m³/s      | 0.21 | 0.19 | 0.18 | 0.16 | 0.14 | 0.10 | 0.06 | 0.04 | 0.02 |      | 0.09        | 0.7           | 41          |
|                   |                |              |       |              |               | kW        | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |      |             |               |             |
|                   |                |              |       |              |               | W/l/s     | 0.43 | 0.47 | 0.51 | 0.57 | 0.67 | 0.91 | 1.41 | 2.17 | 4.55 |      |             |               |             |
| 200               | 1              | SDX200EC     | 3230  | IPX2         | 3             | m³/s      | 0.31 | 0.29 | 0.27 | 0.25 | 0.23 | 0.20 | 0.16 | 0.12 | 0.08 | 0.06 | 0.17        | 1.4           | 33          |
|                   |                |              |       |              |               | kW        | 0.17 | 0.17 | 0.16 | 0.16 | 0.17 | 0.17 | 0.16 | 0.17 | 0.16 | 0.16 |             |               |             |
|                   |                |              |       |              |               | W/l/s     | 0.54 | 0.59 | 0.60 | 0.64 | 0.71 | 0.85 | 1.04 | 1.37 | 1.92 | 2.88 |             |               |             |
| 250               | 1              | SDX250EC     | 3230  | IPX2         | 4             | m³/s      | 0.32 | 0.31 | 0.29 | 0.27 | 0.26 | 0.22 | 0.17 | 0.13 | 0.09 | 0.06 | 0.17        | 1.4           | 33          |
|                   |                |              |       |              |               | kW        | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |             |               |             |
|                   |                |              |       |              |               | W/l/s     | 0.52 | 0.54 | 0.57 | 0.61 | 0.65 | 0.78 | 0.99 | 1.30 | 1.89 | 0.28 |             |               |             |
| 315               | 1              | SDX315EC     | 2510  | IPX2         | 5             | m³/s      | 0.37 | 0.35 | 0.33 | 0.31 | 0.29 | 0.24 | 0.18 | 0.11 | 0.04 |      | 0.17        | 1.4           | 41          |
|                   |                |              |       |              |               | kW        | 0.14 | 0.14 | 0.15 | 0.16 | 0.16 | 0.17 | 0.16 | 0.15 | 0.12 |      |             |               |             |
|                   |                |              |       |              |               | W/l/s     | 0.37 | 0.40 | 0.45 | 0.52 | 0.56 | 0.69 | 0.90 | 1.33 | 3.14 |      |             |               |             |

Sound Power Level Spectra dB (ref 10<sup>-12</sup> Watts)

| DIA. | MOTOR<br>PHASE | STOCK REF | SPECTRUM | 125 | 250 | 500 | 1K | 2K | 4K | 8K | DBA @<br>3M |
|------|----------------|-----------|----------|-----|-----|-----|----|----|----|----|-------------|
| 125  | 1              | SDX125EC  | Inlet    | 53  | 58  | 68  | 64 | 66 | 61 | 54 | 50          |
|      |                |           | Outlet   | 48  | 53  | 63  | 59 | 61 | 56 | 49 | 45          |
|      |                |           | Breakout | 38  | 43  | 51  | 48 | 51 | 46 | 39 | 35          |
| 150  | 1              | SDX150EC  | Inlet    | 56  | 60  | 71  | 66 | 69 | 63 | 57 | 53          |
|      |                |           | Outlet   | 51  | 55  | 66  | 61 | 64 | 58 | 52 | 35          |
|      |                |           | Breakout | 44  | 48  | 59  | 54 | 57 | 51 | 45 | 41          |
| 200  | 1              | SDX200EC  | Inlet    | 20  | 62  | 69  | 72 | 71 | 68 | 64 | 56          |
|      |                |           | Outlet   | 48  | 57  | 64  | 67 | 66 | 63 | 59 | 51          |
|      |                |           | Breakout | -2  | 39  | 46  | 49 | 48 | 45 | 41 | 33          |
| 250  | 1              | SDX250EC  | Inlet    | 20  | 62  | 69  | 72 | 71 | 68 | 64 | 56          |
|      |                |           | Outlet   | 48  | 57  | 64  | 67 | 66 | 63 | 59 | 51          |
|      |                |           | Breakout | -2  | 39  | 46  | 49 | 48 | 45 | 41 | 33          |
| 315  | 1              | SDX315EC  | Inlet    | 55  | 63  | 67  | 71 | 70 | 72 | 62 | 56          |
|      |                |           | Outlet   | 50  | 58  | 62  | 66 | 65 | 67 | 57 | 51          |
|      |                |           | Breakout | 40  | 48  | 52  | 56 | 55 | 57 | 47 | 41          |

Models & Accessories

| Fan Stock Ref | 0-10v external control Stock Ref |
|---------------|----------------------------------|
| SDX125EC      | 426332                           |
| SDX150EC      | 426332                           |
| SDX200EC      | 426332                           |
| SDX250EC      | 426332                           |
| SDX315EC      | 426332                           |

| Dia | In-Line Attenuators |                    |                    |                     |
|-----|---------------------|--------------------|--------------------|---------------------|
|     | 300mm<br>Stock Ref  | 600mm<br>Stock Ref | 900mm<br>Stock Ref | 1200mm<br>Stock Ref |
| 125 | 83012030            | 83012060           | 83012090           | -                   |
| 150 | 83015030            | 83015060           | 83015090           | -                   |
| 200 | -                   | 83020060           | 83020090           | 83020120            |
| 250 | -                   | 83025060           | 83025090           | 83025120            |
| 315 | -                   | 83031060           | 83031090           | 83031120            |

| Fan<br>Stock Ref | Wall Terminal<br>Stock Ref | Wall Terminal<br>Stock Ref | Electric Heaters<br>Stock Ref | Panel Filters<br>Stock Ref |
|------------------|----------------------------|----------------------------|-------------------------------|----------------------------|
| 125              | SA125/280                  | SA125/80                   | 10531125T1                    | QPF125A                    |
| 150              | SA150/280                  | SA150/80                   | 10531150T1                    | QPF150A                    |
| 200              | SA200/280                  | SA200/80                   | 10531200T1                    | QPF200A                    |
| 250              | SA250/280                  | SA250/80                   | 10531250T1                    | QPF250A                    |
| 315              | SA315/280                  | SA315/80                   | 10531315T1                    | QPF315A                    |

| Fan<br>Stock Ref | Bag Filters<br>Stock Ref | Roof Terminal<br>Stock Ref | Louvre Shutter<br>Stock Ref |
|------------------|--------------------------|----------------------------|-----------------------------|
| 125              | QPFB125A                 | WB160                      | LS250                       |
| 150              | QPFB150A                 | WB160                      | LS250                       |
| 200              | QPFB200A                 | WB200                      | LS250                       |
| 250              | QPFB250A                 | RCZ300                     | LS250                       |
| 315              | QPFB315A                 | RCZ300                     | LS315                       |