



PRODUCT | FCO

NATURAL DAY TO DAY VENTILATOR

DESCRIPTION

FCO provides highly efficient natural inlet or extract ventilation through the wall and is suited to most kinds of industrial and commercial buildings. It is available in a wide range of sizes, louvre options and control options.

FEATURES AND BENEFITS

FCO is available from 426mm throat width to 2326mm throat width and from 658mm to 3451mm throat length (see table overleaf). Louvres are either of aluminium, polycarbonate or glass. Optional accessories include bird, insect and burglar guards. Bases are either 220 mm deep, where louvres protrude from the front of the vent when it is open, or 270 mm deep, where louvres open within the body of the vent.

LOUVRE OPTIONS

Depending on the application, louvres are made from single skin or insulated double skin aluminium, single skin Georgian wired glass, single skin laminated or toughened glass, or twin wall clear or opaque polycarbonate. Seals are either low-loss brush seals (for aluminium louvres) or rubber seals (for glass or polycarbonate louvres), which reduce air leakage when closed.

CONTROLS OPTIONS

Controls are 230V AC or 24V DC, pneumatic or manual. For both electric and pneumatic versions, either double



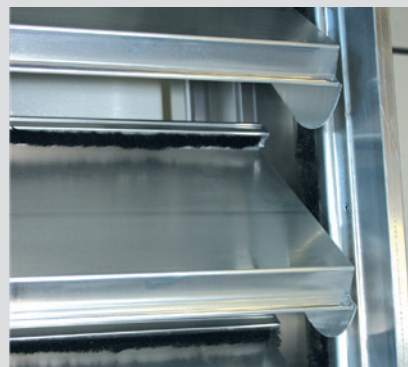
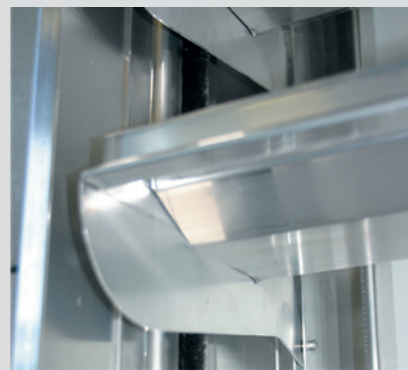
action locking mechanisms, failsafe open or failsafe closed. If used as either an electric or a pneumatic smoke ventilator, activation is either by local thermal fuse which opens the unit at a pre-selected temperature, or by responding to an external release signal.

INSTALLATION

FCO is suitable for fixing either into curtain walling, glazing or prepared openings.

PERFORMANCE

- The U-value varies with size and options, from 3.1 to 6.0.
- Air permeability varies between 130 and 230 m³/hr/m² at 50 Pa, depending on ventilator size.
- Sound insulation ranges from 9.0-11.0 R'w.

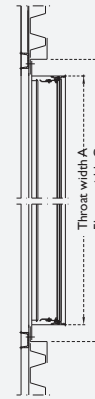


TECHNICAL DATA & PERFORMANCE | FCO

ELEVATION



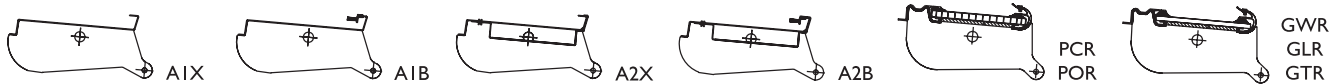
PLAN



VENT OPENING SIZES

| Throat widths | | Throat heights | | Throat widths | | Throat heights | |
|---------------|------|----------------|------|---------------|------|----------------|------|
| Type | A | Type | B | Type | A | Type | B |
| 07.. | 576 | ..10 | 658 | 23.. | 2126 | ..10 | 705 |
| 09.. | 726 | ..11 | 791 | 25.. | 2326 | ..11 | 838 |
| 10.. | 876 | ..13 | 924 | | | ..13 | 971 |
| 12.. | 1026 | ..14 | 1057 | | | ..14 | 1104 |
| 13.. | 1176 | ..15 | 1190 | | | ..15 | 1237 |
| 15.. | 1326 | ..17 | 1323 | | | ..17 | 1370 |
| 16.. | 1476 | ..18 | 1456 | | | ..18 | 1503 |
| 18.. | 1626 | ..19 | 1589 | | | ..19 | 1636 |
| 21.. | 1926 | ..21 | 1722 | | | ..21 | 1769 |
| | | ..22 | 1855 | | | ..22 | 1902 |
| | | ..23 | 1988 | | | ..23 | 2035 |
| | | ..25 | 2121 | | | ..25 | 2168 |
| | | ..26 | 2254 | | | ..26 | 2301 |
| | | ..27 | 2387 | | | ..27 | 2434 |
| | | ..29 | 2520 | | | ..29 | 2567 |
| | | ..30 | 2653 | | | ..30 | 2700 |
| | | ..31 | 2786 | | | ..31 | 2833 |
| | | ..32 | 2919 | | | ..32 | 2966 |
| | | ..33 | 3052 | | | | |
| | | ..34 | 3185 | | | | |
| | | ..36 | 3318 | | | | |
| | | ..38 | 3451 | | | | |

LOUVRE TYPES



| Type | Single skin aluminium | Double skin aluminium | Polycarbonate | Glass | Brush seals | Weight kg/m ² |
|-------------|-----------------------|-----------------------|---------------|-------|-------------|--------------------------|
| A1X | ● | | | | | 15 |
| A1B | ● | | | | ● | 15 |
| A2X | | ● | | | | 20 |
| A2B | | ● | | | ● | 20 |
| PCR/POR | | | ● | | | 28 |
| GWR/GLR/GTR | | | | ● | | 37 |

PCR = Clear polycarbonate with seals POR = Opaque polycarbonate with seals
 GWR = Single wired glass with seals GLR = Single laminated glass with seals GTR = Single toughened glass with seals



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