



# Colt FCO



Colt FCO | Natural day to day and smoke control ventilator

## PRODUCT | FCO

### NATURAL DAY TO DAY AND SMOKE CONTROL 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.

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#### 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



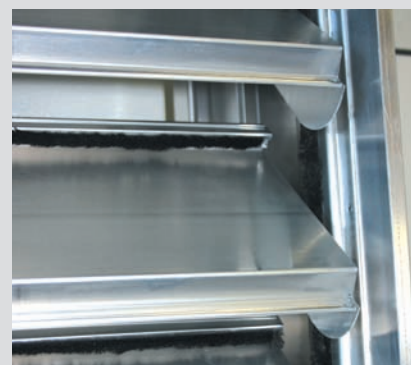
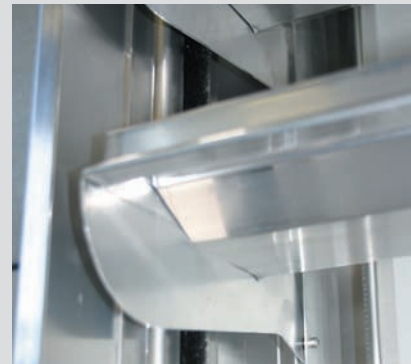
action locking mechanisms, failsafe open or failsafe closed. If used as either an electric or a pneumatic smoke ventilator, activation is either by local thermal fuse which opens the unit at a pre-selected temperature, or by responding to an external release signal.

#### INSTALLATION

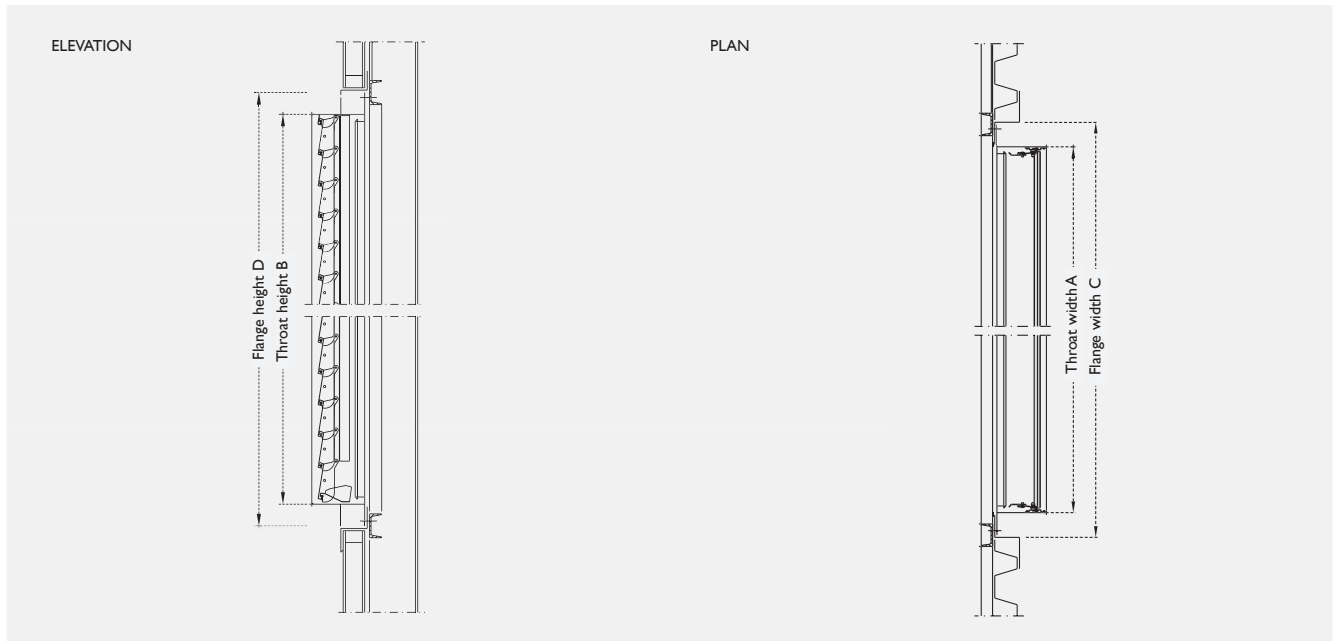
FCO is suitable for fixing either into curtain walling, glazing or prepared openings.

#### PERFORMANCE

- The U-value varies with size and options, from 3.1 to 6.0.
- Air permeability varies between 130 and 230 m<sup>3</sup>/hr/m<sup>2</sup> at 50 Pa, depending on ventilator size.
- The aerodynamic coefficient is up to 0.68.
- Sound insulation ranges from 9.0-11.0 R'w.



“People feel better in Colt conditions.”



**VENT OPENING SIZES**

**VENT FLANGE SIZES**

Throat widths				Throat heights				Flange widths				Flange heights			
Type	A	Type	B	Type	A	Type	B	Type	C	Type	D	Type	C	Type	D
07..	576	..10	658	23..	2126	..10	705	07..	826	..10	955	23..	2376	..10	955
09..	726	..11	791	25..	2326	..11	838	09..	976	..11	1088	25..	2576	..11	1088
10..	876	..13	924			..13	971	10..	1126	..13	1221			..13	1221
12..	1026	..14	1057			..14	1104	12..	1276	..14	1354			..14	1354
13..	1176	..15	1190			..15	1237	13..	1426	..15	1487			..15	1487
15..	1326	..17	1323			..17	1370	15..	1576	..17	1620			..17	1620
16..	1476	..18	1456			..18	1503	16..	1726	..18	1753			..18	1753
18..	1626	..19	1589			..19	1636	18..	1876	..19	1886			..19	1886
21..	1926	..21	1722			..21	1769	21..	2176	..21	2019			..21	2019
		..22	1855			..22	1902			..22	2152			..22	2152
		..23	1988			..23	2035			..23	2285			..23	2285
		..25	2121			..25	2168			..25	2418			..25	2418
		..26	2254			..26	2301			..26	2551			..26	2551
		..27	2387			..27	2434			..27	2684			..27	2684
		..29	2520			..29	2567			..29	2817			..29	2817
		..30	2653			..30	2700			..30	2950			..30	2950
		..31	2786			..31	2833			..31	3083			..31	3083
		..32	2919			..32	2966			..32	3216			..32	3216
		..33	3052							..33	3349				
		..34	3185							..34	3482				
		..36	3318							..36	3615				
		..38	3451							..38	3748				

**LOUVRE TYPES**

Type	Single skin aluminium	Double skin aluminium	Polycarbonate	Glass	Brush seals	Weight kg/m <sup>2</sup>
AIX	•					15
AIB	•				•	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