WCO DATA SHEET

WCO NATURAL VENTILATOR

DATA SHEET

WCO can provide extract ventilation as well as allow the entry of natural daylight for most kinds of industrial and commercial buildings.

Its top section provides maximum ventilation and this can also be used for emergency smoke extract, although it is not certified as a smoke ventilator. Two controllable side dampers provide day to day ventilation when it is raining.

Its features and benefits are described overleaf.



FEATURES AND BENEFITS

A wide range of applications - WCO can provide both day to day and smoke control ventilation, although it is not certified as a smoke ventilator.

Polycarbonate versions allow the entry of natural daylight. There are pneumatic, electric or hand controls and a wide range of louvre types, accessories and finishes.

High performance - WCO is aerodynamically efficient and has a high resistance to weather.

Easy to install - WCO is delivered fully assembled to site and may be installed at any angle from the horizontal to 45O . It has a wide range of base profiles to suit all sheeting, curb or glazing applications.

Durable - WCO is manufactured from tough, corrosion resistant aluminium alloy, grade 3005 in accordance with EN573-3, with stainless steel fixings. Louvres pivot on double nylon UV- resistant bearings. It requires very little maintenance.

We believe people deserve to work & live in safe & beautiful buildings.

Quality of manufacture - WCO is manufactured under the ISO 9000 quality standard. Each unit is given a functional test before despatch.

Design service - Colt provides a pre-order design service. Please contact Colt for more information relating to the application, specification, installation or servicing of WCO systems.



SMOKE CONTROL

DATA SHEET WCO Ventilator

VENTILATOR DESIGN

The ventilator is available in nine width options from 550mm throat width to 1900mm throat width, and in 21 length options available from 638mm to 3298mm throat length.

Depending on the application, louvres are made either from single skin aluminium, double skin aluminium, twin wall clear or opaque polycarbonate. All louvres are provided with seals to reduce air leakage when closed.

The ventilator can be supplied either mill finish or painted to a RAL colour.

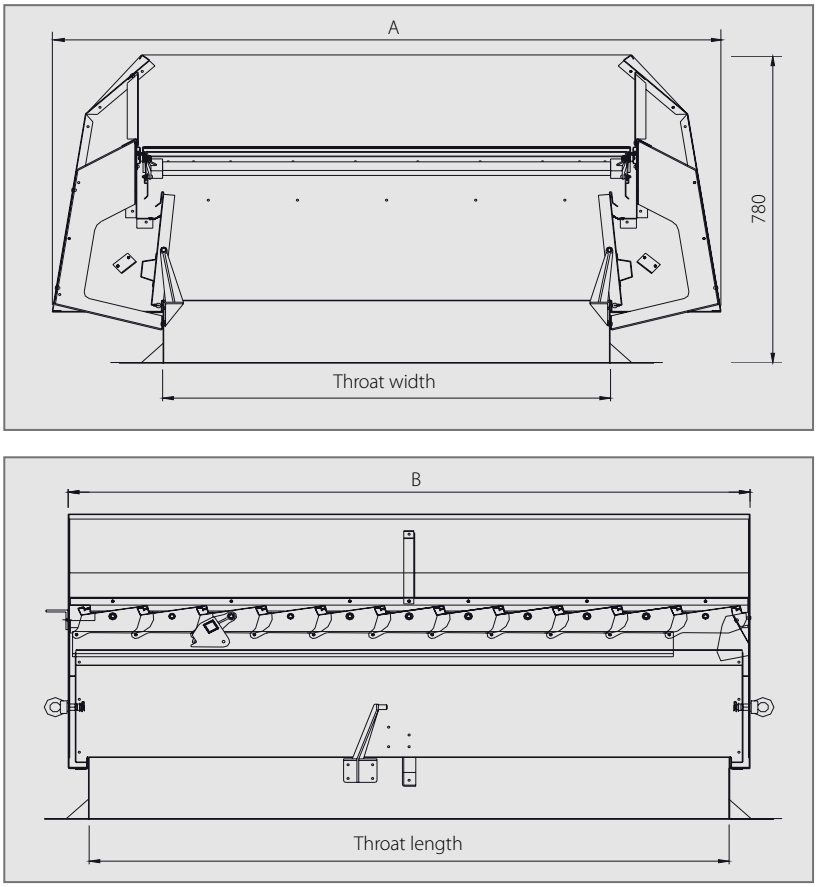
Optional accessories include bird, insect, burglar and safety guards.

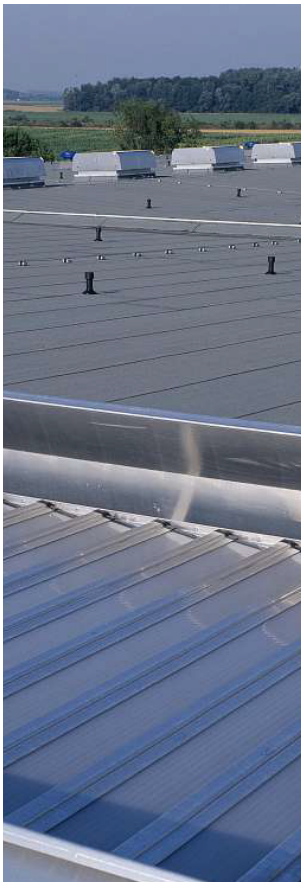
CONTROLS

Controls are either electric (24V DC / 230V AC), pneumatic or manual. For the pneumatic version, either double action locking mechanisms, failsafe open or failsafe closed are available. If used as 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 response to an external release signal. (Please note that it is not certified as a smoke ventilator).

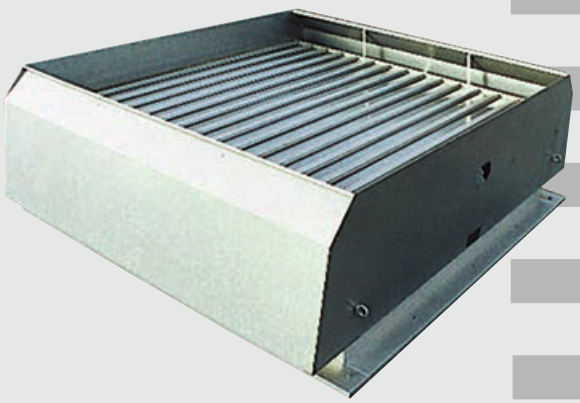
PERFORMANCE

Depending on its size and the options selected, WCO can achieve an insulation value of up to 3.2 W/m^2/K and an aerodynamic coefficient of up to 0.7.

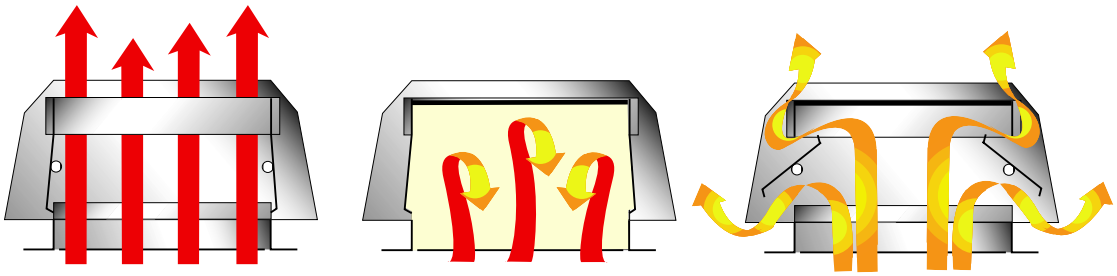




Model width code	Ventilator opening width A mm	Model length code	Ventilator opening length B mm
07	550	10	638
09	700	11	771
10	850	13	904
12	1000	14	1037
13	1150	15	1170
15	1300	17	1303
16	1450	18	1436
18	1600	19	1569
21	1900	21	1702
		22	1835
		23	1968
		25	2101
		26	2234
		27	2367
		29	2500
		30	2633
		31	2766
		32	2899
		34	3032
		35	3165
		36	3298



OPERATION MODES FOR CHA NGING W EATHER CONDITIONS



Dry weather Cold weather Wet weather