



Multi-Function

Natural Roof Ventilator



Benefits & Features

Comfortable working conditions for personnel.

“Dual purpose” day-to-day ventilation in all weather conditions and smoke control ventilation.

Automatic and manual control.

Low running cost & maintenance.



Fine Weather



Wet Weather



Fire



The MF (Multi-Function) ventilator is a ventilator for all seasons. Healthier, safer, more productive working conditions are created by opening the top caps in summer. And, when it's raining, weathered side dampers maintain a refreshing environment. Valuable heat is saved in winter by completely closing the unit.

Year round fire protection of occupants, contents and buildings is a further vital benefit provided by this versatile unit. The ventilator is **designed and tested** to remove high temperature smoke from buildings on fire.

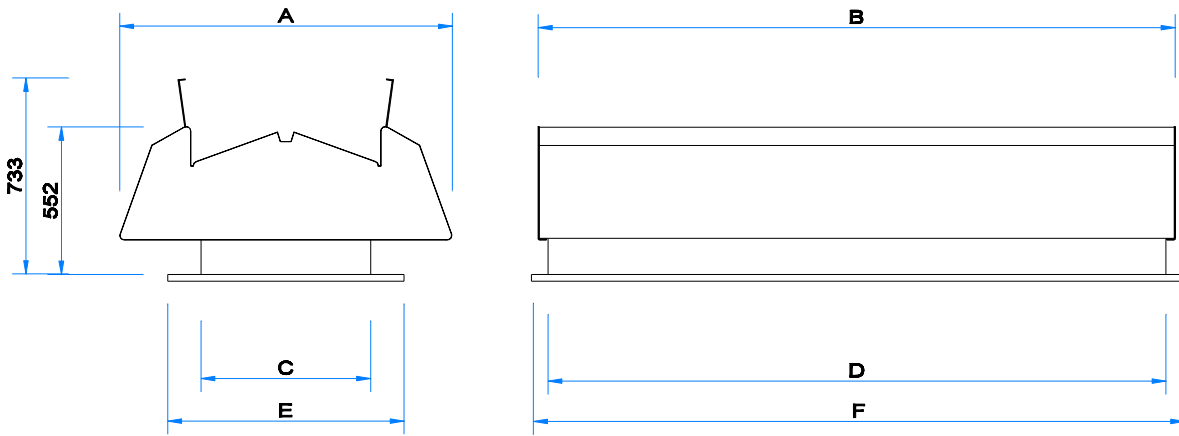
Smoke Control ●

Solar Shading ●

Daylighting ●

Ventilation ●

Climate Control ●



Dimensions and Data

Ventilator Size	A (mm)	B (mm)	C (mm)	D (mm)	E* (mm) B4 Base	F* (mm) B4 Base	Top Caps Open (AvCv)	Side Dampers Open (AvCv)
MF/XXX/0924	1200	2288	612	2224	762	2374	0.953	0.544
MF/XXX/0918	1200	1688	612	1624	762	1774	0.723	0.413

* The dimensions indicated are the actual ventilation dimensions—we recommend 10mm clearance all around for upstands.

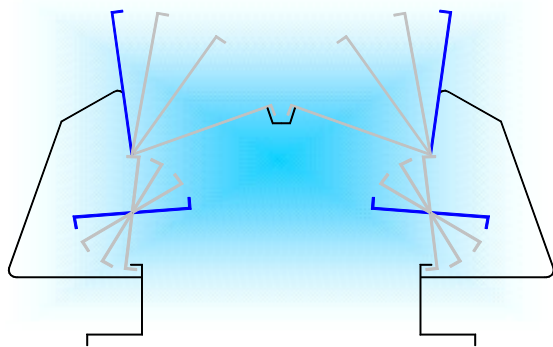
Control Options

MF / MMF / _ _ _ _ : Both top caps and side dampers controlled by electric actuators, either 230 vac or 24 vac and incorporating a fusible link. In the event of fire, and if the automatic control system has not activated the ventilators, the fusible link parts automatically, closing the side dampers and opening the top caps to allow heat and smoke to escape. Electric actuators are spring return and fail safe.

MF / PPF / _ _ _ _ : As above but with side dampers and top caps controlled by pneumatic cylinders.

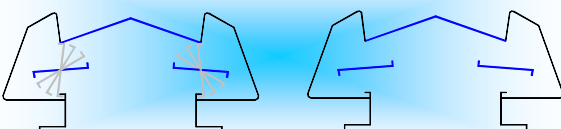
MF / LLF / _ _ _ _ : As above but with side dampers and top caps controlled by cable runs to working level. Manual control only with fusible link to fail safe in the event of fire.

MF / EEF / _ _ _ _ : Top cap fixed shut and side dampers fixed open, and held in this position giving permanent weathered ventilation. In the event of fire outbreak fusible link parts and the ventilator will fail safe.

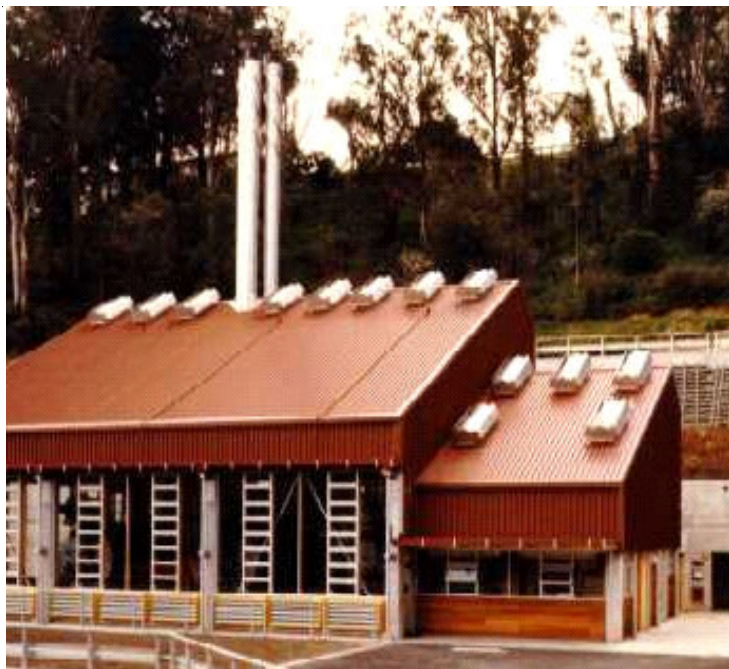


MF / NN / _ _ _ _ : Static top caps fixed shut and side damper fixed open.

MF / LN / _ _ _ _ : Static top caps fixed shut. Side dampers controlled by cable runs to working level.



Note: Models MF / NN and MF / LN are not Fire Ventilators



Colt MF/PPF/0924 Ventilators installed on the Boiler House at Napier Hospital.



Colt MF/MMF/0924 Ventilators installed in the Atrium Roof of School of Architecture, Wellington.

General Description

The Colt MF is a lightweight natural roof mounted extract ventilator available in a variety of configurations to suit your particular project requirements and can be used for the following purposes; day-to-day ventilation in all weather conditions, and smoke control in the event of fire.

The material used for manufacture is a marine grade, corrosion resistant, hardened Aluminium, type 5005 H14

Finish

Mill finish aluminium is our standard for this product. However other finishes are available including Polyester Powder coating and pre-painted steel. Please enquire.

Dimensions

Two standard options are available:

Standard Width

09 . . 612mm throat width

Standard Lengths

. . 24 2224mm throat length

. . 18 1624mm throat length

Controls

You can choose from the four control options as detailed on page 2 of this brochure. Combinations of these options and / or custom controls can be incorporated. Please enquire.

Rain Sensor

The Colt Weatherbeater is an electronic rain sensing device that can be incorporated into the control system. Simple utilisation of the Weatherbeater can control the ventilation system with day-to-day weather sensitive control along with full emergency fire ventilation over-ride.

Base Options

You may choose from four standard base types:

- B1 - for fixing into glazing bars
- B2 - for fixing onto profiled roofing (name profile)
- B3 - for fixing onto flat roof
- B4 - for fixing onto prepared upstand

Guards

Various guards can be factory fitted inside the throat of the ventilator at your instruction.

Bird / Insect / Security / Burglar

Mounting Position

The MF can be fixed to all roof structures including upstands, corrugated sheeting, tray sheeting and glazing.

The MF is designed for down slope mounting at angles from 0° to 45°. Ridge mounting can be achieved and we recommend a purpose made upstand is fabricated for this alternative.

Environmental Control

The MF ventilator is the effective solution to the problem of removing unpleasant and unwanted warm air from industrial and commercial buildings. Particularly suited to areas where medium to high internal heat loads are present and good ventilation rates are still required even during days of inclement weather.

Smoke Control

The MF is an effective smoke ventilator. As part of your buildings smoke control system, MF ventilators will protect the building structure, occupants and contents from the worst effects of heat and smoke.

Maintenance

The MF has low maintenance needs – only periodic removal of debris is recommended to maintain weather performance plus a simple annual service. When installed as part of a smoke control system the MF should be serviced and regularly tested in accordance with the New Zealand Building Code requirements.

Colt Service

Colt Products and Systems is a division of Aquaheat Industries Ltd. Our service division offers a comprehensive range of maintenance packages incorporating the maintenance and repair of all building services equipment and providing 24 hour, 365 day emergency cover.

Design Service

Colt Products and Systems can offer a comprehensive design and installation service tailored to suit your requirements for both environmental comfort and smoke control systems.

Where the ventilators are installed as part of a smoke control or other life safety system, the system must be designed by either ourselves or a suitably qualified Engineer.



COLT SERVICE

Colt Products and Systems is operated as a division of Aquaheat Industries—Aquaheat Service Division offers a nationwide comprehensive range of service contracts incorporating the maintenance and repair of all building services equipment and a 24 hour, 365 day breakdown service.

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MAINTENANCE & TESTING

It is essential for the safety of the occupants that all fire safety equipment is regularly checked.