

Tristar

Powered Air Handling System

The Colt Tristar is a compact, roof mounted, powered inlet ventilator which is used to draw in fresh air from the external environment, condition it and then distribute it to specific areas inside a building. The Tristar is ideally suited to both industrial and commercial buildings.

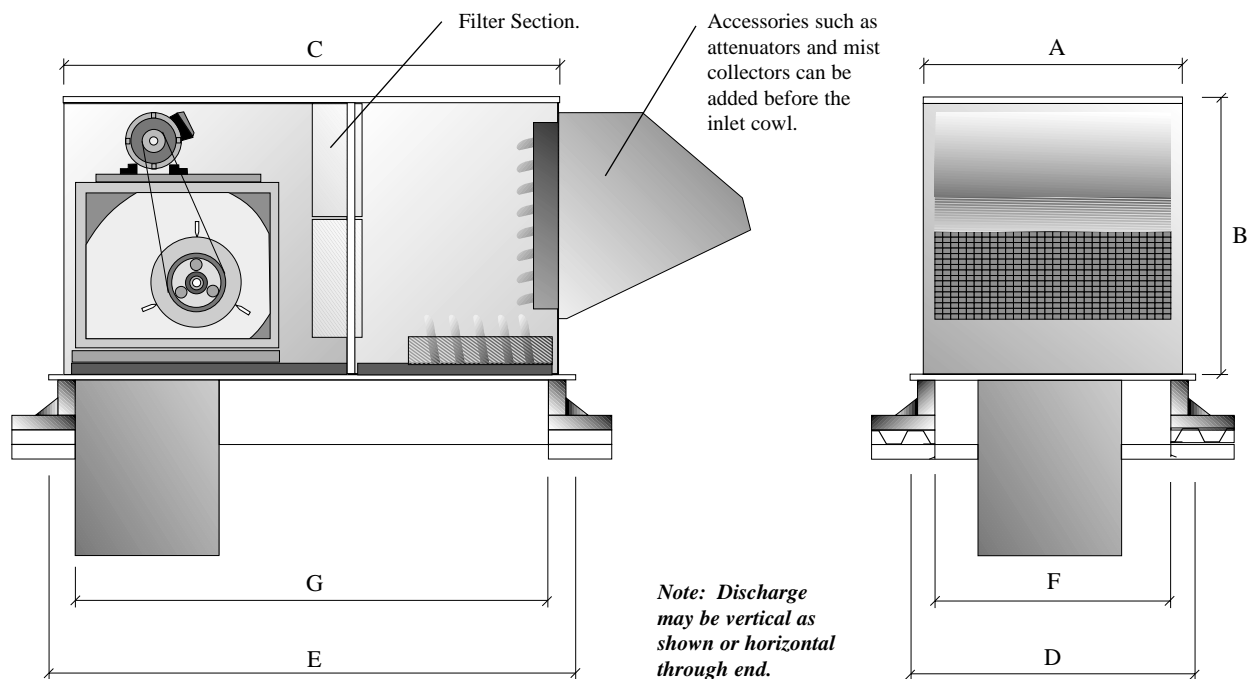
The Tristar is an extremely flexible ventilator, capable of delivering any combination of filtered fresh air and recirculated air for optimum comfort and economy.

The Tristar range is manufactured by Colt using **100% recycled** aluminium for the principal body components.



Benefits & Features

- *Comfortable working conditions for personnel.*
- *Cost effective solution to ventilate or heat a building.*
- *Localised supply of warm or cool air via connection to a heater battery or cooling unit.*
- *Especially viable for large open areas.*
- *Flexible size range to suit most applications.*
- *Standard range of optional ducting and accessories.*
- *Durable and reliable.*
- *Low maintenance needs.*



Tristar Technical Data		20	25	30	35
Airflow Volume (max)	m ³ /s	5.5	7.0	8.3	9.7
Maximum External Resistance	Pa	700	700	700	900
Sound Power Level LW (in duct)	dB(A)	101	98.5	96	100
Sound Power Level LW (casing)*	dB(A)	86.5	86	85	89
Power Supply		400/3/50	400/3/50	400/3/50	400/3/50
Motor Current	A	11.1	14.8	14.8	21.5
Motor Power	Kw	5.5	7.5	7.5	11.0
Fan Speed	rpm	1450	1450	1450	1460
Damper Motor (proportional)		24/1/50	24/1/50	24/1/50	24/1/50
	VA	5	5	5	5
Damper Motor (open/close)		230/1/50	230/1/50	230/1/50	230/1/50
	VA	11	11	11	11
Damper Motor (open/close)	Vdc	24	24	24	24
	VA	4	4	4	4
Typical Weight (single skin)	Kg	325	458	498	499
Typical Weight (insulated)	Kg	420	571	615	645

* Typical External Noise Level < 75 dBA at 3m

Dimensions mm (base unit)		20/V	25/V	30/V	35/V	20/H	25/H	30/H	35/H
Width of Casing	A	1284	1592	1592	1592	1284	1592	1592	1592
Height of Casing	B	1502	1606	1806	2106	1802	1906	2106	2406
Length of Casing	C	2500	2940	2940	2940	2500	2940	2940	2940
Base Width	D	1466	1720	1720	1720	1466	1720	1720	1720
Base Length	E	2682	3070	3070	3070	2682	3070	3070	3070
Roof Opening Width	F	1220	1480	1480	1480	1220	1480	1480	1480
Roof Opening Length	G	2436	2830	2830	2830	2436	2830	2830	2830
Discharge Duct	<input type="checkbox"/>	840	1000	1000	1000	840	1000	1000	1000

/V = Vertical Discharge

/H = Horizontal Discharge



General Description

The Tristar is a versatile powered inlet ventilator available in a variety of configurations to suit your particular project requirements. It can be used for day-to-day cooling and heating of specific areas with optional air filtration.

Fresh air is drawn into the unit via a centrifugal fan through a rainproof and drip-proof inflow cowl equipped with a galvanised bird guard. An optional mist eliminator and sound attenuator can be supplied.

The Tristar is available in four sizes: 20, 25, 30 and 35. Each is available with a choice of single skin or double skin (20mm Rockwool) insulated casing.

Recirculation


Recirculation is achieved by a mixing section with two sets of contra rotating aluminium dampers which can be proportionally controlled remotely.

On cold days, recirculation is used to provide mixed warm air thereby providing sufficient fresh air without wasting the heated air within the building or allowing the environment to become stuffy.

Filtration

The filter section consists of bag filters which are fixed in a frame with rapid fasteners allowing them to be replaced from the front, quickly and easily. Standard Air Filtration Class is G3* to BS EN 779:1993 with optional upgrades to filtration class F7 or F9 with optional G3 pre-filtration.


* Previously referred to as EU specification.



The Tristar, with its range of optional accessories, provides great flexibility in use.

Accessories:

- Bag Filters,*
- Ducting Grilles,*
- Air Diffusers,*
- Heater Batteries,*
- Cooling Units.*



Casing

The casing is manufactured from 100% Recycled Grade, Cold Rolled, Mill Finish Aluminium grade 3005 H14.

Fan and Motor

A backward curved centrifugal fan is driven by a three-phase motor via double V-belts. A two speed motor is available.

Heating / Cooling

A choice of 1, 2 or 3 row heating and cooling coils are available with a maximum heat output of approximately of 350 Kw.

Tristar

Environmental Control

The Colt Tristar ventilator is the effective solution for providing fresh, filtered air for heating or cooling in industrial and commercial buildings.

Tristar units are installed onto the roof of a building and can have a multitude of accessories, such as ducting, to give precise control within the internal environment.

Installation

The Tristar can be fixed to all roof structures and onto a constructional upstand.

Four eyebolts on top of the unit allow for easy lifting. Each unit is delivered fully assembled ready for installation.

Installation angle:

Lengthways - Max 20° inlet cowl pointing downwards
sideways - Max 3°

Maintenance

The Tristar has low maintenance needs - only periodic filter changes plus a simple annual service are required. These operations are aided by removable side-panels.

Colt Service Ltd

Part of the Colt Group of companies, Colt Service offers a comprehensive range of service contracts incorporating the maintenance and repair of all building services equipment and a 24 hour, 365 day breakdown service.



Colt International Limited

New Lane Havant
Hampshire PO9 2LY
Telephone 023 9245 1111
Fax 023 9245 4220

info@coltgroup.com
www.coltgroup.com

© Colt International Licensing Limited 2000. Subject to Modification.
"Colt" and the Colt logo are registered trade marks of the Colt Group.
Publication No. PD27 / 12.10.98

