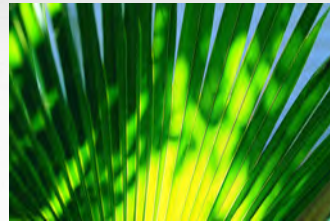




CS3 Series 60Hz

Modular Central Station Air Handling Units
Air Volume: 1000 to 56000 cfm (1700 to 95000 m³/hr)



DUNHAM-BUSH

Products that perform...By people who care

DUNHAM-BUSH CS3 Series

Introduction

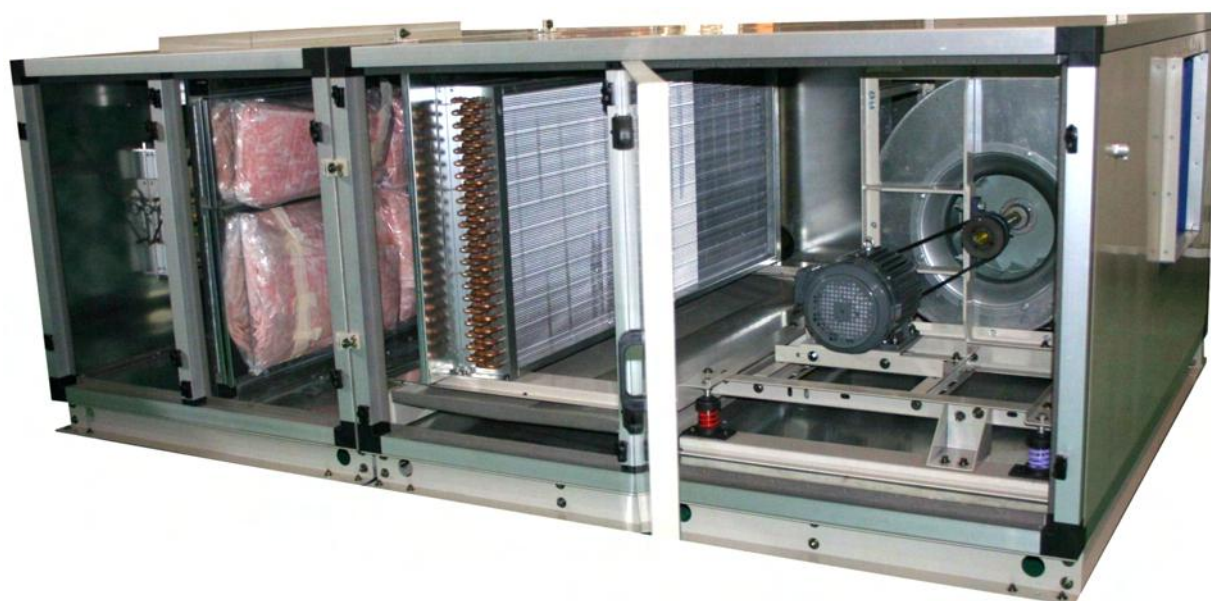
For more than 100 years, Dunham-Bush has focused on innovative product development. Today, we provide a full portfolio of HVAC/R products from Fan Coil Units to large centrifugal chillers as well as many other innovative green solutions. Our commitment to innovation, matched with an aggressive attitude toward growth, makes Dunham-Bush a leader in global markets. Our product development is tailored to meet the specific needs of customers, building-by-building, country-by-country and region-by-region. No other HVAC/R manufacturer takes this approach to meeting your performance expectations.

CS3, Modular Central Station Air Handling Units, have an air volume range from 1000 to 56,000 cfm (1700 to 95,000 m³/hr) with new extruded aluminum frame profile. The entire product line features rigid construction, installation ease, control flexibility, high reliability and versatile functions, which is suitable for both commercial and industrial applications.

Features

The CS3 range of Air Handling Units from Dunham-Bush features an extruded aluminium frame profile that provides a high level of unit design and application flexibility necessary to meet the rising demand for improved Indoor Air Quality. The unit is constructed using rigid nylon corners and double skin polyurethane foam insulated panels. These units can be disassembled for shipment and reassembled at site. Internal joints are insulated with rigid PVC strip and PE foam to provide air-tight casing and minimize cold bridging.

The CS3 range is available in 17 models in horizontal and vertical formats with a wide range of options and accessories that can be selected from the Dunham-Bush SPEC electronic catalogue. CS3 Air handling Units can be configured to meet the requirements of all standard and many specialised applications.



Meeting IAQ Design Requirement

Double Skin "Sandwich" panel construction has smooth inner surfaces for easy and effective cleaning to reduce risk of dirt and bacteria accumulation. The sandwich panels are injected with Polyurethane foam of 40kg/m³ density. Panel of nominal 1" and 2" thickness are available. The external surface of all panels is powder coated.

DUNHAM-BUSH CS3 Series

Quick Service Access

Access panels are easily removable by screwed type panel lock. Hinged access is also available.

Your Choice of Filtration

Various options of filter type, filter media and filter efficiency are available to meet the different air quality requirement.

Your Choice of Coils

Chilled water and DX cooling coils are manufactured from copper tubes with aluminum fins, copper fins, hydrophilic coated fins or other custom made coils. Heating can be hot water coil or electric heaters.

Air Tight Screwed Compression Latch

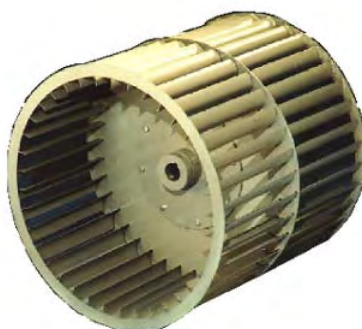


Three-way pitch drain pan design discharges condensate quickly and prevents microbial growth. Condensate pans of 304 stainless steel material are also available as an option.

Your Choice of Blower

Forward, Backward Inclined and Backward Airfoils Centrifugal fans which are AMCA certified are available. You can select class I, II or III fans to meet your required air flow, static pressure, performance and sound power. Blower shall be coupled with pulley and motors.

Forward Curved Fan Wheel (FS)



Airfoil Fan Wheel (AF)



Optional:

A wide choice of accessory sections – diffuser sections, mixing box sections, face and bypass damper sections, humidifier sections, reheating sections and heat recovery sections are available to meet the required air conditions application needs.

For outdoor installation, applications in corrosive or hazardous atmosphere, other material options are available for the CS3 range.

Special motor voltages and dual speed motors can be supplied.

Frequency inverter drive for Variable Air Volume applications is also offered as an option.

MAXIMUM AIRFLOW

Model Size	12	22	32	40	48	64	80	100	120	150	180	210	240	270	320	420	520
Max. CFM [m ³ /hr]	1667 [2833]	2667 [4532]	3896 [6620]	4813 [8178]	5729 [9735]	7563 [12851]	9625 [16355]	12375 [21028]	14438 [24533]	17000 [28886]	22000 [37382]	25458 [43258]	28708 [48781]	31958 [54303]	40000 [67968]	45000 [76464]	56250 [95580]



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Manufacturer reserves the right to change specifications without prior notice.

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