



CC Series 50Hz

Horizontal Blower Units

Air Volume: 800 to 4000 cfm (1359 to 6797 m³/hr)

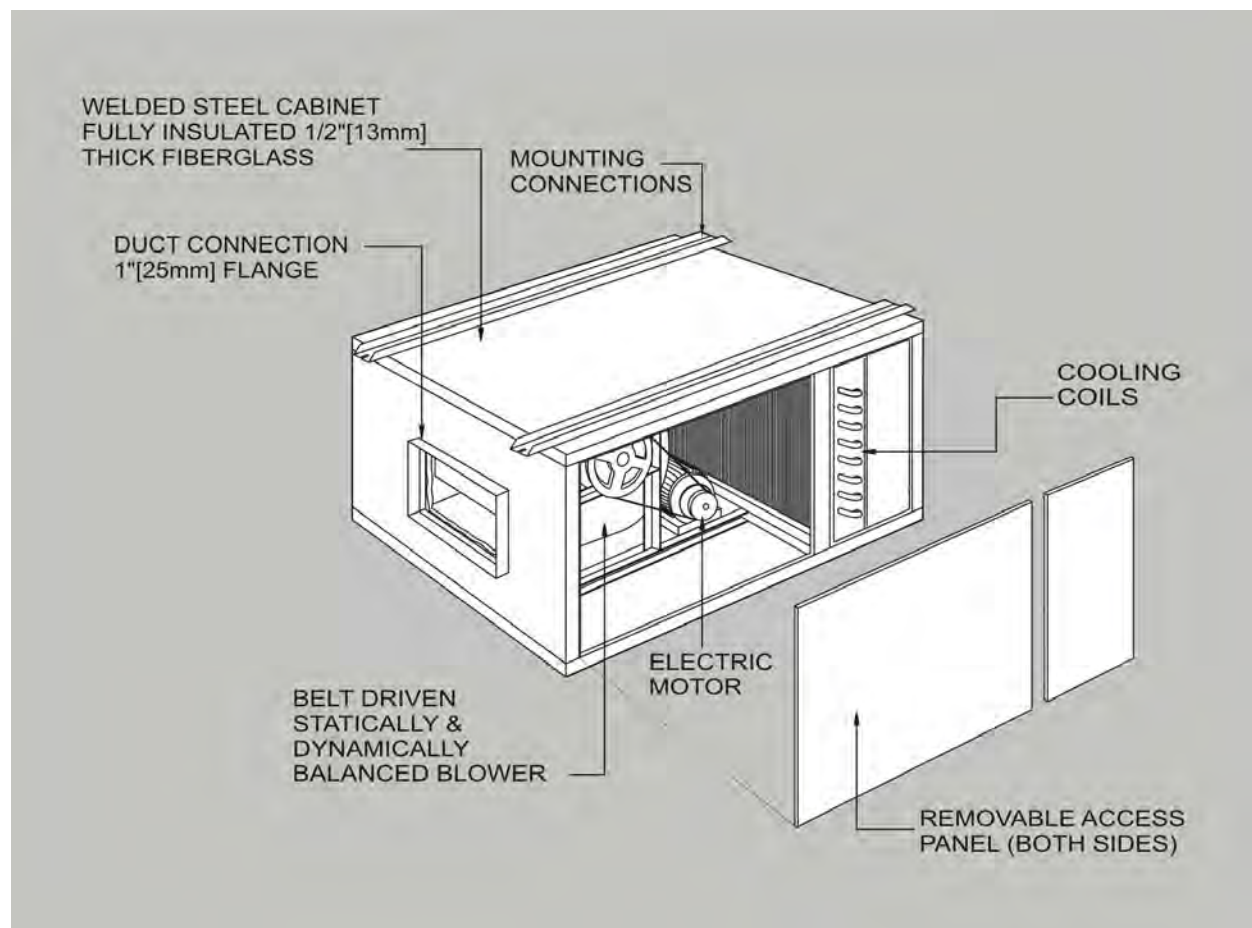


DUNHAM-BUSH

Products that perform...By people who care

INTRODUCTION

Dunham-Bush, known throughout the industry for reliability and performance offers its line of 'CC' ducted belt driven comfort air conditioners. It features compact, attractive, easy accessible design and other advantages which assure you of a model to best suit your demand. It can be designed for both concealed and exposed ceiling hung installation. Six models (2 to 12 TR [7 to 42 kW] of cooling) are designed to deliver 800 to 4000 cfm [1359 to 6797 m³/hr] to satisfy various cooling requirement with a total static pressure capability of up to 2"wg [0.5kPa]. Multiple units may be used for larger requirements. Every aspect of construction is under close supervision by experience quality control personnel to ensure high performance and reliable finished products.



FEATURES

CASING

All steel parts are coated with epoxy powder paint which gives excellent finishing, weatherability and salt-spray test of minimum 840 hours. Before coating, the part undergoes a complete pretreatment process which involves degreasing, phosphating and rinsing with deionized water. It increases the paint adhesion effect and rust preventing effect to obtain high quality paint film. All panels are insulated with 1/2" [13mm] thick 1.5 lbs per cubic feet [24 kg per cubic meter] mat faced linacoustic fiberglass.

COILS

Available for chilled water and DX applications. Chilled water and DX coil consist of staggered rows of 1/2" [13mm] and 3/8" [9.5mm] O.D. seamless copper tubes each. Coils are mechanically expanded into die-formed aluminium fins spaced 12 fins per inches [25mm]. Fins are of corrugated design to improve heat transfer. Standard chilled water coils are of 3, 4 and 6 rows design. Standard DX coils are of 4 rows design. All coils are tested under water with 350 psig [24 bar] air pressure. Coils are furnished with a vent and drain connection. Every coil is computer optimised selected to ensure best selection to reduce operating cost and ensure low first cost.

BLOWER ASSEMBLY

Blower wheels are of forward curved double inlet design and are constructed of zinc coated steel. As the blower wheels are statically and dynamically balanced in accordance with AMCA standard prior to and

after assembly. They will assure quiet, smooth performance well below the first critical speed at all design conditions. The wheel shafts are made from solid steel and are ground and polished to close tolerances. Bearings are of self aligning, regreaseable ball type and selected for minimum 100,000 operating hours. The adjusted motor pulley on the belt drive system allows air flow and static pressure to be balanced to best suit actual site conditions.

DRAIN PAN

The drain pan is constructed of heavy gauge metal and is internally painted with mastic and externally insulated with minimum 6 mm thick fire-retardant PE foam. As the condensate is prevented to be in contact with the metal the possibility of corrosion is minimised. The unit is designed, when mounted level, to assist condensate draining by having a positive pitch. This in conjunction with an adequately sized drain connection assures rapid condensate runoff.

MOTOR AND DRIVE PACKAGE

3 phase TEFC motors are standard. The motor mounting bracket can be adjusted to ensure proper belt tension and alignment. V-belt and pulleys can be selected to suit various static pressure and cfm required.

FILTERS

Standard flat filters are 1" [25mm] washable type. The filter media is constructed of 70% arrestance efficiency synthetic fiber.



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