



Belt Drive Air Handlers

Commercial belt drive units have a definite place in the HVAC field and we will discuss the major difference between these units and typical production central station units. We will also discuss the typical belt drive application.

Single wall belt drive units exist because they are about 20%-30% less in cost than the normal central station unit. They are also great for simple, straight forward applications where the design is pretty plain vanilla for a horizontal or vertical application. Belt drive units are available for CFM's ranging from 800 CFM to 12,000 CFM (2 tons - 30 tons).

The best applications for these units are when there is a space that requires less than 1.5" of external static pressure on the fan for ductwork, grilles and doesn't require a custom arrangement. Horizontal units are air in the back and air out the front. Vertical units are air in the side and air out the top. Great applications are in small public areas in hospitals, hotels, offices, stores, malls, and general areas needing heating and cooling.

Below is a list of the differences between the common belt drive unit and the more expensive sister design, the central station unit:

UNIT DESCRIPTION	BELT DRIVE	CENTRAL STATION
Indoor/Outdoor	Indoor	Indoor/Outdoor
Type	Horizontal/Vertical	Horizontal/Vertical/Multizone
Single or Double Wall	Single	Double
Insulation	3/4" Fiberglass	2" Foam Injected
Cabinet Type	Galvanized	Galvanized
Paint	Yes	Yes
Isolation	External	Internal
Access Doors	No	Yes
Dimensions	Fixed	Variable
Fans	Forward Curved	FC, AF, Inline
Pressure	Low	Low & Medium

Belt Drive Air Handlers Did You Know?

Did you know ?

We can build quick ship belt drive units in 4 week and 2 week expedited lead times.

Did You know ?

We will supply complete submittals with our quotes and usually will have it the same day.

Did You know ?

Fan Coils are direct drive and don't have the static pressure requirements for large multi room applications as do belt drive units

Trivia Answers:

What are the tops five grossing wedding films of all time?

5. Four Weddings and a Funeral
4. Wedding Crashers
3. My Best Friends Wedding
2. Runaway Bride
1. My Big Fat Greek Wedding

What are the top five countries with the 10 largest Christian Populations?

5. Mexico
4. China
3. Russia
2. Brazil
1. USA

(Continued)

<u>UNIT DESCRIPTION</u>	<u>BELT DRIVE</u>	<u>CENTRAL STATION</u>
Mounted VFD	No	Yes
Mounted Starter	No	Yes
Mounted Disconnect	No	Yes
DX or Chilled Water Coils	Yes	No
Multiple DX Circuits	Restricted	All
HW or Steam Coils	Yes	Yes
Space between coils	No	Yes
Coil Rows/Circuitry	Limited	Unlimited
Filters	2" Throwaway	T.A./Cartr./Bag
Efficiency	30%	30%-99%+
Mixing Box with Dampers	Yes	Yes
Economizers	No	Yes
Controllers/Dampers	No	Yes
Access Sections	No	Yes
Plenum Sections	No	Yes
Sound Attenuation	No	Yes

FAST SHIPMENTS

We can build quick ship belt drive units in 4 week and 2 week lead times.

Did you Know ?

We fabricate coils in our standard 4 to 5 weeks year-round and then also offer our 5 and 10 working day shipment program. We can also build coils in 2 or 3 working days as well as expedite coatings for environmental condition.

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Thank you for allowing us to share with you. We'd be happy to answer any questions you may have from the services we offer to general product info.

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