

ACE | Active Adaptable, Exposed

CHILLED BEAMS

ACE Suggested Specification & Configuration

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The primary airflow rate shall be adjustable over a wide range via a separate supply air unit of the chilled beam. Adjustment of the airflow rate shall not have any effect on induced airflow rate through the coil. The induced room airflow rate shall be manually adjustable to three positions without influencing the primary supply air flow rate.

Supply airflow rate shall be manually adjustable, or the unit shall be equipped with actuator for demand-based control of airflow rate (optional). Control of supply airflow rate shall not have any effect on coil cooling and heating capacities. The chilled beam with an adjustable airflow rate shall have only one duct connection. The appearance of the chilled beams with constant airflow and adjustable airflow rate shall be the same.

The unit is an active chilled beam for exposed installation with 2-way supply air. The front panel shall be easily opened and detached from either side without the use of any special tools.

The active chilled beam shall be 16" wide and 7" high with an inlet duct diameter of 5". The chilled beam shall have a duct cover extension to cover the connection duct and pipe installations (optional).

The chilled beam shall have an airflow adjustment damper. The damper shall be removable via an access panel. The front panel and side panels shall be made of prepainted galvanized steel plates. All visible parts shall be white RAL 9010, 20% gloss.

The chilled beam shall be equipped with a cable tray (optional).

All pipes shall be manufactured from copper, connection pipes with a wall thickness of 0.04".

The cooling heat exchanger shall consist of six 0.6" pipes connected in series. The fins of the heat exchanger shall be manufactured from aluminum. Coil fins shall be spaced at 6 FPI. Heating shall be incorporated within the heat exchanger via two 0.4" pipes connected in series. All joints shall be factory pressure-tested. The maximum operating pressure of pipework shall be 150 psi.

Each active chilled beam shall be protected by a removable plastic coating and individually packed in a plastic bag. Duct connection and pipe ends shall be sealed for transit.

Each chilled beam shall be identifiable by a serial number printed on a label attached to the active chilled beam.

- 1. MODEL: (XXX)**
ACE - Adaptable Active Chilled Beam
- 2. DIRECTION / NOZZLE TYPE: (X)**
A - 2-Way / Nozzle 1
B - 2-Way / Nozzle 2
C - 2-Way / Nozzle 3
D - 2-Way / Nozzle 4
- 3. BEAM LENGTH: (XXX)**
48" - 192" (Increments of 4")
- 4. COIL LENGTH: (XXX)**
35" - 179" (Increments of 4") *
- 5. COIL TYPE: (X)**
C - Cooling Only
H - Cooling and Heating
D - Cooling Only, Venting Valves
F - Cooling and Heating, Venting Valves
- 6. DAMPER: (X)**
N - No
Y - Yes
- 7. AIR QUALITY CONTROL: (X)**
A - Manual
R - Retrofit Possibility
B - Motorized
- 8. APPEARANCE: (X)**
A - Rounded, Oval Perforation
B - Rounded, Round Perforation
C - Angular, Oval Perforation
D - Angular, Round Perforation
- 9. CONTROL VALVE & ACTUATORS**: (XXX)**
000 - None
A01 - Adjustable KV Value, Factory Mounted, No Actuator
A03 - Adjust. KV Value, Factory Mounted, 24 V Act.
A07 - Constant-Flow-Mounted
A09 - Constant-Flow-Mounted, 24 V Act.
A11 - Constant-Flow-Mounted, 230 V Act.
- 10. ACCESSORY 1: (XX)**
00 - None
KH - Cable Tray
- 11. ACCESSORY 2: (XXXX)**
0000 - None
DC12 - 12" Duct Cover
DC16 - 16" Duct Cover
DC20 - 20" Duct Cover
DC24 - 24" Duct Cover
- 12. FINISH: (XXX)**
WHT - White (RAL-9010)
GRY - Gray
BLK - Black
SPL - Special

*The damper is removable through access panel.
* Maximum Coil Length is Beam Length less 13".
** Additional voltages available upon request.*

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SAMPLE CONFIGURATION: ACE - D - 100 - 83 - C - Y - B - D - 000 - KH - DC20 - BLK