

## Introduction: Active Chilled Beams

The *Krueger by Halton* active chilled beams are water assisted air distribution devices designed to maximize on thermal comfort, indoor air quality, and energy savings. They accomplish this through the combined use of pressurized supply air, sensible cooling or heating water coils, and induced room air.

These devices are best suited for use in areas such as office buildings, health care facilities, or any other type of building with open spaces or individual offices. Active chilled beams work in rooms with up to 12 ft. ceilings and where both heating and cooling may be needed. They are available for both lay-in and exposed mounting applications in various widths and lengths, making them a flexible option for just about any architectural preference. Low sound levels coupled with peak energy efficiency make these chilled beams the ideal choice for not only new building construction, but retrofit projects as well.

### MODELS

- ASB - Active High Capacity
- ABD - Active 12" Wide Sustainable
- AHH - Active Bulkhead
- AHB - Active Bulkhead, Booster Fan
- ABH - Active Corner Mounted, Exposed
- ABX - Active 4-Way Discharge

### STANDARD FEATURES

- Standard finish is Polyester Painted White (RAL 9010).
- Combined cooling and heating coil.
- 2 and 4 pipe coil configuration.
- Cooling/heating water pipe connections are copper 1/2" and 3/8" diameter, respectively.
- Aluminum fins on water coil.
- Multiple nozzle sizes available for demand based performance.
- 1-way and 2-way supply.
- Perforated, hinged access panel for easy room side access to coil.
- 20 gauge, galvanized steel casing.
- 5" diameter primary air duct connections. (6.4" on ASB, 4" on ABD)
- Low sound levels.
- *Krueger by Halton* Velocity Control (HVC). (Available on most active models)



*Open Office Application*



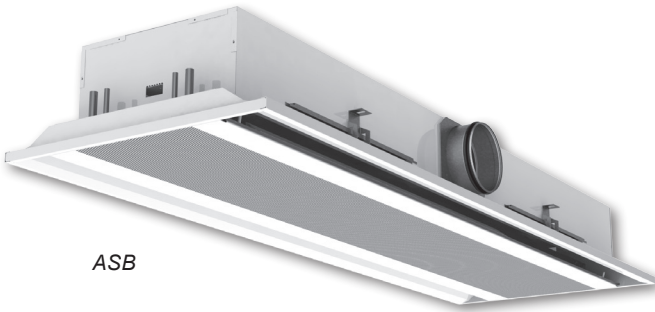
*Bulkhead Application*

CHILLED BEAMS

A  
C  
T  
I  
V  
E

### PERFORMANCE DATA:

Unlike a typical grille, register, or diffuser; chilled beams have a level of complexity which demands a more robust presentation of performance. Download KHIT, our chilled beam software, from our website at [www.krueger-hvac.com](http://www.krueger-hvac.com). This powerful tool provides an accurate representation of a given product's performance. Each input allows you to understand the room and/or unit performance based on your exact input parameters. For further assistance in selecting or specifying *Krueger by Halton* chilled beams, contact your local representative or send us an email at [kruegerinfo@krueger-hvac.com](mailto:kruegerinfo@krueger-hvac.com).



ASB

### Introduction: ASB

The ASB high capacity chilled beam is the perfect solution for spaces with above average ventilation, cooling, and heating loads. It is a great fit for large spaces with windows and additional heat sources such as personnel or computers. This product has several options available to meet different engineering requirements and building needs.

#### MODEL

ASB - Active High Capacity

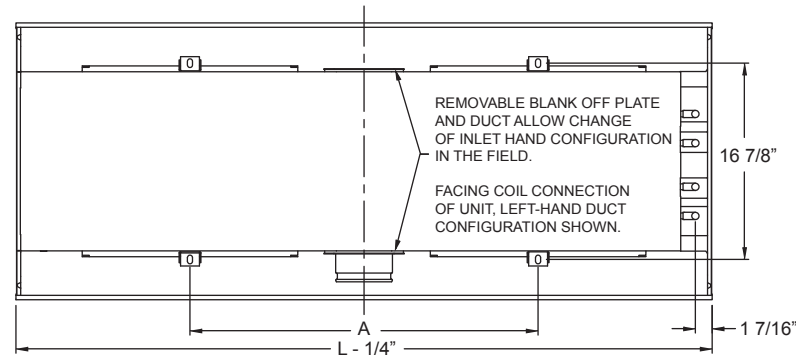
#### FEATURED OPTIONS

(See STANDARD OPTIONS on Page C3-17)

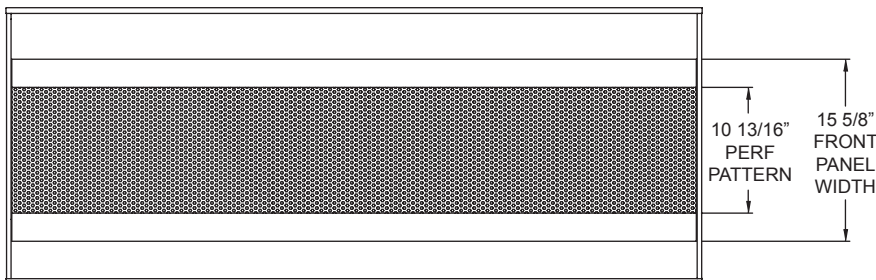
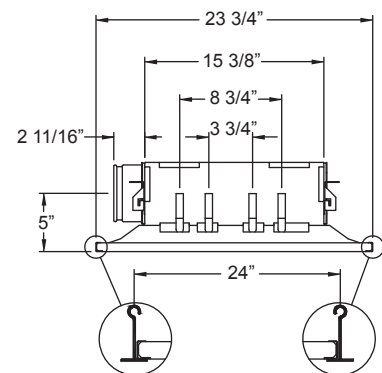
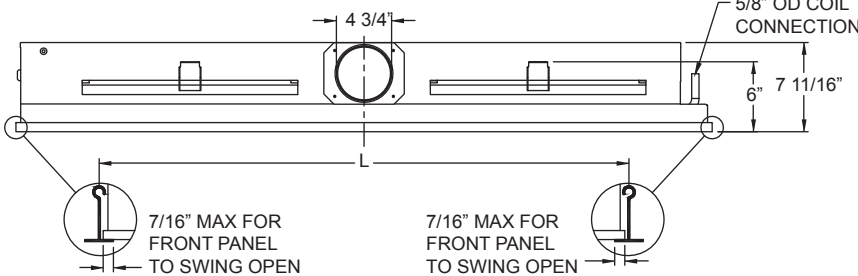
- Primary air flow adjustment damper.
- Integrated exhaust valve.
- 2-way or 1-way (right or left) available.
- Right or left duct connection.
- Available in lengths from 48" to 120" (12" increments).
- Custom color matching available.
- 5 nozzle sizes available.

### ASB Dimensional Information

#### ASB DUCT & SIDE VIEWS, 48" - 96"



L	A	Weight	Weight with Water
48"	18" - 36"	91 lbs	96 lbs
60"	24" - 42"	113 lbs	118 lbs
72"	30" - 48"	134 lbs	141 lbs
84"	36" - 54"	156 lbs	163 lbs
96"	42" - 60"	177 lbs	186 lbs

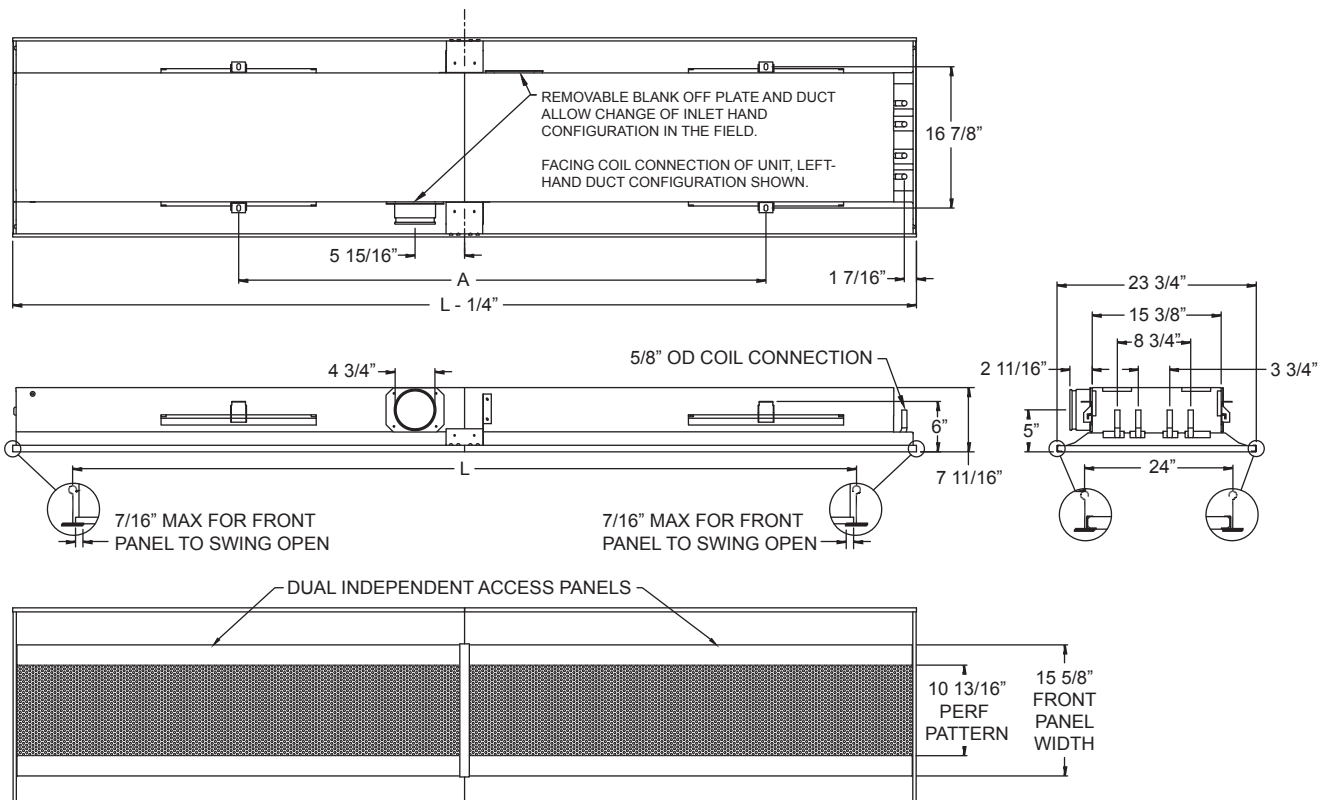




CHILLED BEAMS

## ASB Dimensional Information

### ASB DUCT & SIDE VIEWS, 108" - 144"



L	108"	120"	132"	144"
A	48" - 66"	54" - 72"	60" - 78"	66" - 84"
Weight	199 lbs	220 lbs	241 lbs	263 lbs
Weight with Water	209 lbs	231 lbs	254 lbs	277 lbs

## ASB Suggested Specification & Configuration

### ASB

The active chilled beam shall have an integral recirculation air path through the perforated bottom panel. The induced room airflow rate shall be manually adjustable via three setting positions without influencing the primary supply airflow rate.

The supply airflow rate shall be manually adjustable using an airflow damper. The hinged bottom panel can easily be opened and detached from either side for general maintenance and cleaning. The bottom panel shall be removable without any special tools.

The supply air to the room space shall be 2-way.

The active chilled beam shall be 23 3/4" wide and 9" high. The active chilled beam shall have an inlet duct diameter of 6.4". The position of the duct connection shall be changeable without the use of any special tools.

The frame, front, and side panels shall be made of galvanized steel. All visible parts shall be white, painted to #44 White (RAL 9010), 20% gloss.

All pipes shall be manufactured from copper, and connection pipes with a wall thickness of 0.04". The fins shall be manufactured from aluminum. Coil fins shall be spaced at 6 FPI. Optionally, heating shall be incorporated within the heat exchanger by means of two 3/8" pipes, connected in series.

All joints shall be soldered and factory pressure-tested. The pipework's operation pressure is 250 psig, with testing completed at 500 psig.

The active chilled beam shall have a measurement tap to allow airflow measurement.

Active chilled beams shall be protected by a removable plastic coating and individually packed in a plastic bag. The duct connection and pipe ends shall remain sealed during transport.

The active chilled beams shall be identified by a serial number printed on a label attached to the beam.

- 1. MODEL: (XXX)**  
ASB - Active High Capacity Chilled Beam
- 2. AIR PATTERN / NOZZLE TYPE: (X)**  
A - 2-Way / Nozzle 1  
B - 2-Way / Nozzle 2  
C - 2-Way / Nozzle 3  
D - 2-Way / Nozzle 4  
E - 2-Way / Nozzle 5
- 3. DUCT CONNECTION: (XXX)**  
R2N - Right / 6.4" / Without Damper  
L2N - Left / 6.4" / Without Damper
- 4. BEAM LENGTH: (XXX)**  
48" - 120" (12" increments)
- 5. COIL LENGTH: (XXX)**  
35" - 107" (12" increments)
- 6. COIL TYPE: (X)**  
C - Cooling Only  
H - Cooling and Heating
- 7. FINISH: (XXX)**  
WHT - White (RAL-9010)  
BLK - Black  
GRY - Gray  
SPL - Special

**SAMPLE CONFIGURATION:** ASB - E - R2N - 48 - 35 - C - WHT - **OR** - ASB - A - L2N - 72 - 59 - C - BLK