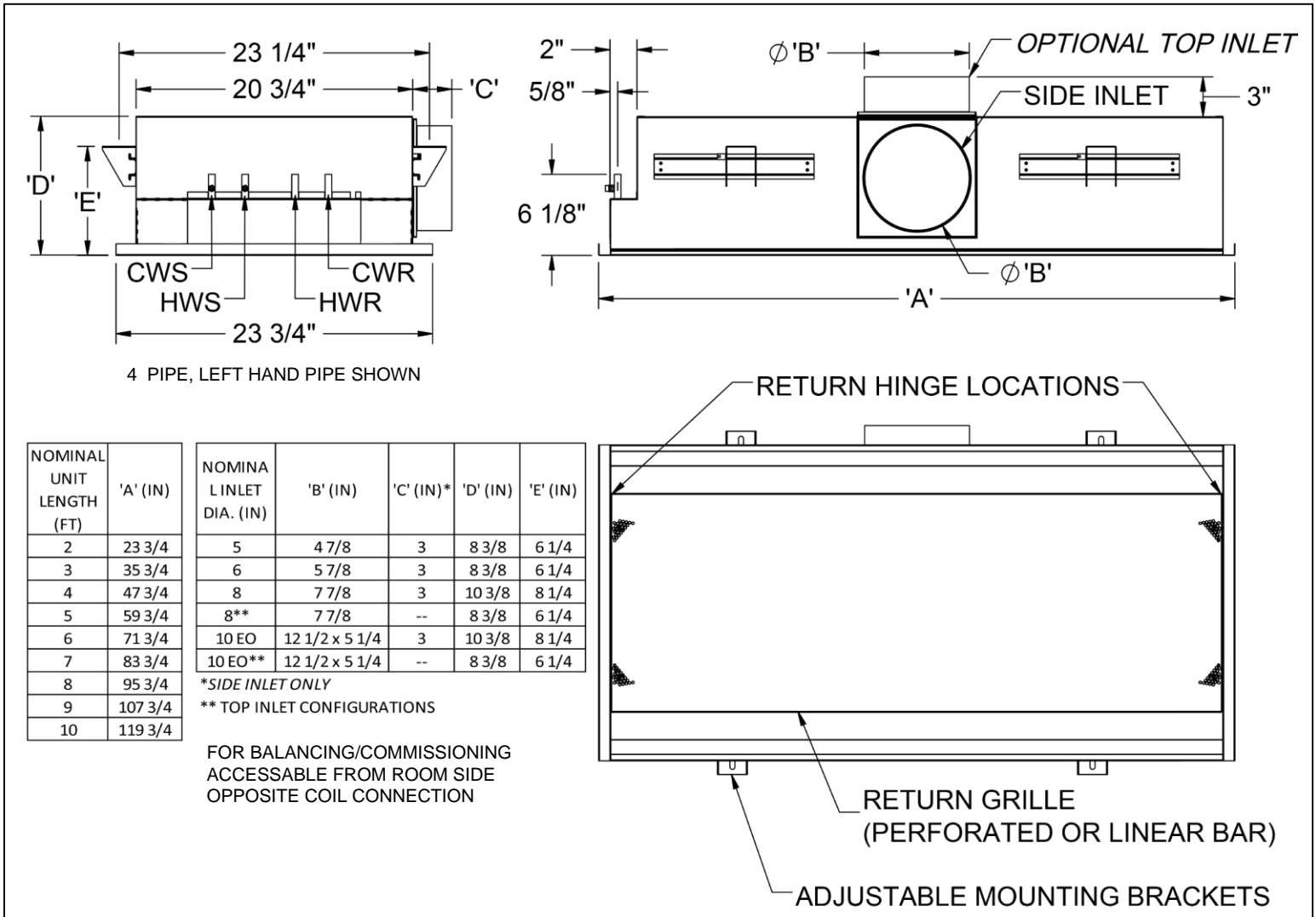


## CBAL 24 • Linear Ceiling Mounted Chilled Beam • 1-Way & 2-Way Discharge • Horizontal Coil



## General Description

- 24 inch wide, linear active chilled beam diffuser, available with 1-way or 2-way air distribution.
- Designed to fit into standard 24 inch ceiling grids, available with different borders.
- 2 to 10 feet chilled beam length in 1 foot increment.
- 2 pipe or 4 pipe coil configurations.
- Casing manufactured with galvanealed G90, 20 gauge sheet metal. Mechanically sealed, leak resistant construction.
- Coil with air vent and 1/2" water connection, available with sweat or threaded connection.

- Rails with adjustable mounting brackets are provided, quantity varies per unit length.
- 5, 6 or 8 inch round and 10 inch oval inlet connection, located either on the side or top.
- Return face panel assembly is hinged, on both sides, allowing to swing open from either side or to be completely removed and provide easy access to internal components.
- Return face panel assembly available with round perforation or linear bar grille.
- Exterior face, border elements and visible internal components are painted in color of choice. Paint is powder coat, a mix of polyester and epoxy.

This Submittal is meant to demonstrate general dimensions and information of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.

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## Basic Unit Configuration

Beam Width  
(nominal- in)

24

Unit Length (nominal - ft)

2  3  4  
 7  5  6  
 8  9  10

Throw Pattern

1-Way towards inlet  
 1-Way away from inlet  
 2-Way

Nozzle Configuration

B1  B2  
 B3  B4

Primary Air Inlet  
Diameter Connection  
(inch)

5  6  8  10\*

*\*Note: 10" is equivalent oval*

Primary Air Inlet  
Orientation

Side  Top

Border Type

Lay In  
 Tegular 9/16" (NT)  
 Tegular 15/16" (DF)

Face Pattern

Circular Perforation  
 Linear Bar Grill

Coil Type - Water  
Side Connection

2 Pipe - Left Hand  
 2 Pipe - Right Hand  
 4 Pipe - Left Hand  
 4 Pipe - Right Hand

Coil Connection -Type

1/2 in Sweat  
 1/2 in MNPT

Flexible Connections

12" Stainless Steel Flex Hose Connection  
 18" Stainless Steel Flex Hose Connection  
 24" Stainless Steel Flex Hose Connection

Exposed Face Finish  
Color

White #26  
 Black #84

Unit Options

1/2 in EcoShield  
 External Plenum  
Insulation

## Unit Option Details

**OPTIONAL TOP INLET**

**WATER COIL CONNECTIONS**  
(4 PIPE, RIGHT HAND SHOWN)

**ADJUSTABLE MOUNTING BRACKETS**  
USE 3/8" THREADED RODS  
TO SUSPEND TO CEILING  
(x4 L = 2' TO 6')  
(x6 L = 7' TO 10')

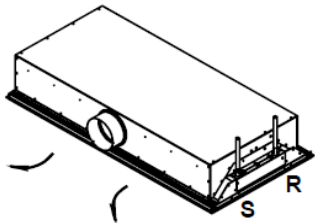
**LB – LINEAR BAR GRILLE**      **CB – CIRCULAR PERFORATION**

**BORDER TYPE**

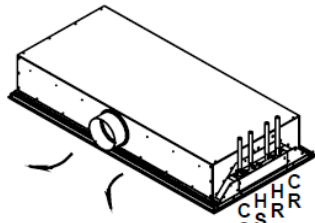
**TEGULAR 9/16"**      **TEGULAR 15/16"**      **LAY IN**

**NOTE:**  
HAND OF UNIT IS DETERMINED BY FACING THE HORIZONTAL  
AIR INLET CONNECTION AND BY THE LOCATION OF THE  
COOLING WATER SUPPLY CONNECTION

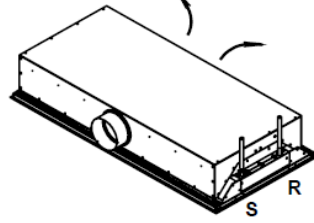
# Inlet, Discharge and Piping Configuration



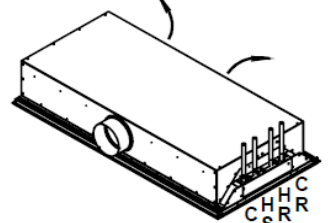
SIDE INLET  
1 WAY 2 PIPE  
RIGHT HAND  
AIR FLOW FRONT



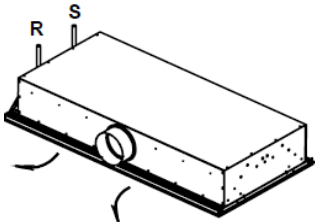
SIDE INLET  
1 WAY 4 PIPE  
RIGHT HAND  
AIR FLOW FRONT



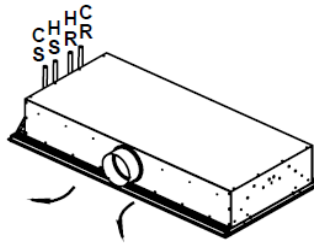
SIDE INLET  
1 WAY 2 PIPE  
RIGHT HAND  
AIR FLOW BACK



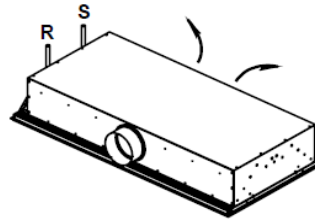
SIDE INLET  
1 WAY 4 PIPE  
RIGHT HAND  
AIR FLOW BACK



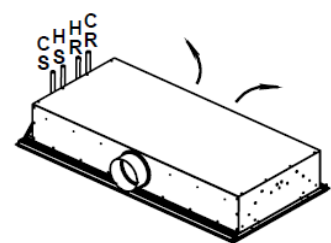
SIDE INLET  
1 WAY 2 PIPE  
LEFT HAND  
AIR FLOW FRONT



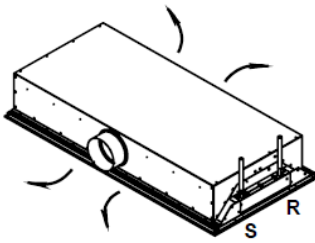
SIDE INLET  
1 WAY 4 PIPE  
LEFT HAND  
AIR FLOW FRONT



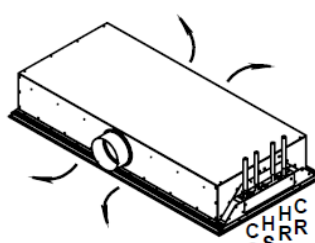
SIDE INLET  
1 WAY 2 PIPE  
LEFT HAND  
AIR FLOW BACK



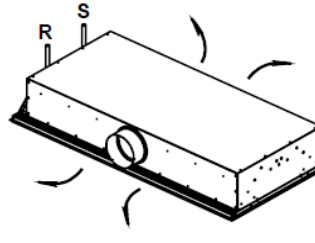
SIDE INLET  
1 WAY 4 PIPE  
LEFT HAND  
AIR FLOW BACK



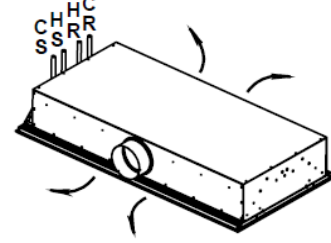
SIDE INLET  
2 WAY 2 PIPE  
RIGHT HAND



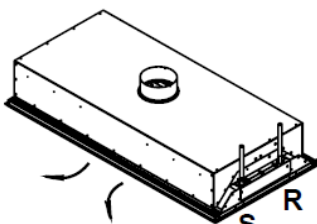
SIDE INLET  
2 WAY 4 PIPE  
RIGHT HAND



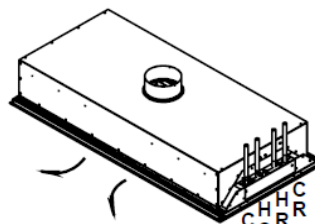
SIDE INLET  
2 WAY 2 PIPE  
LEFT HAND



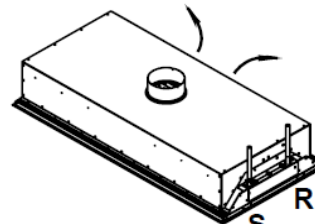
SIDE INLET  
2 WAY 4 PIPE  
LEFT HAND



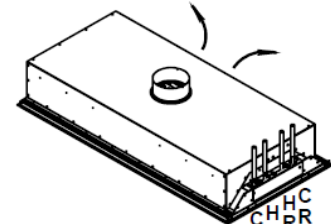
TOP INLET  
1 WAY 2 PIPE  
RIGHT HAND  
AIR FLOW FRONT



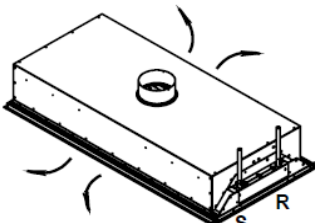
TOP INLET  
1 WAY 4 PIPE  
RIGHT HAND  
AIR FLOW FRONT



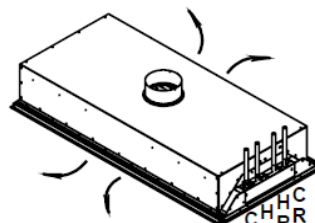
TOP INLET  
1 WAY 2 PIPE  
RIGHT HAND  
AIR FLOW BACK



TOP INLET  
1 WAY 4 PIPE  
RIGHT HAND  
AIR FLOW BACK



TOP INLET  
2 WAY 2 PIPE  
RIGHT HAND



TOP INLET  
2 WAY 4 PIPE  
RIGHT HAND

R - Return S - Supply;

HR - Heating Return HS - Heating Supply;

CR - Cooling Return CS - Cooling Supply