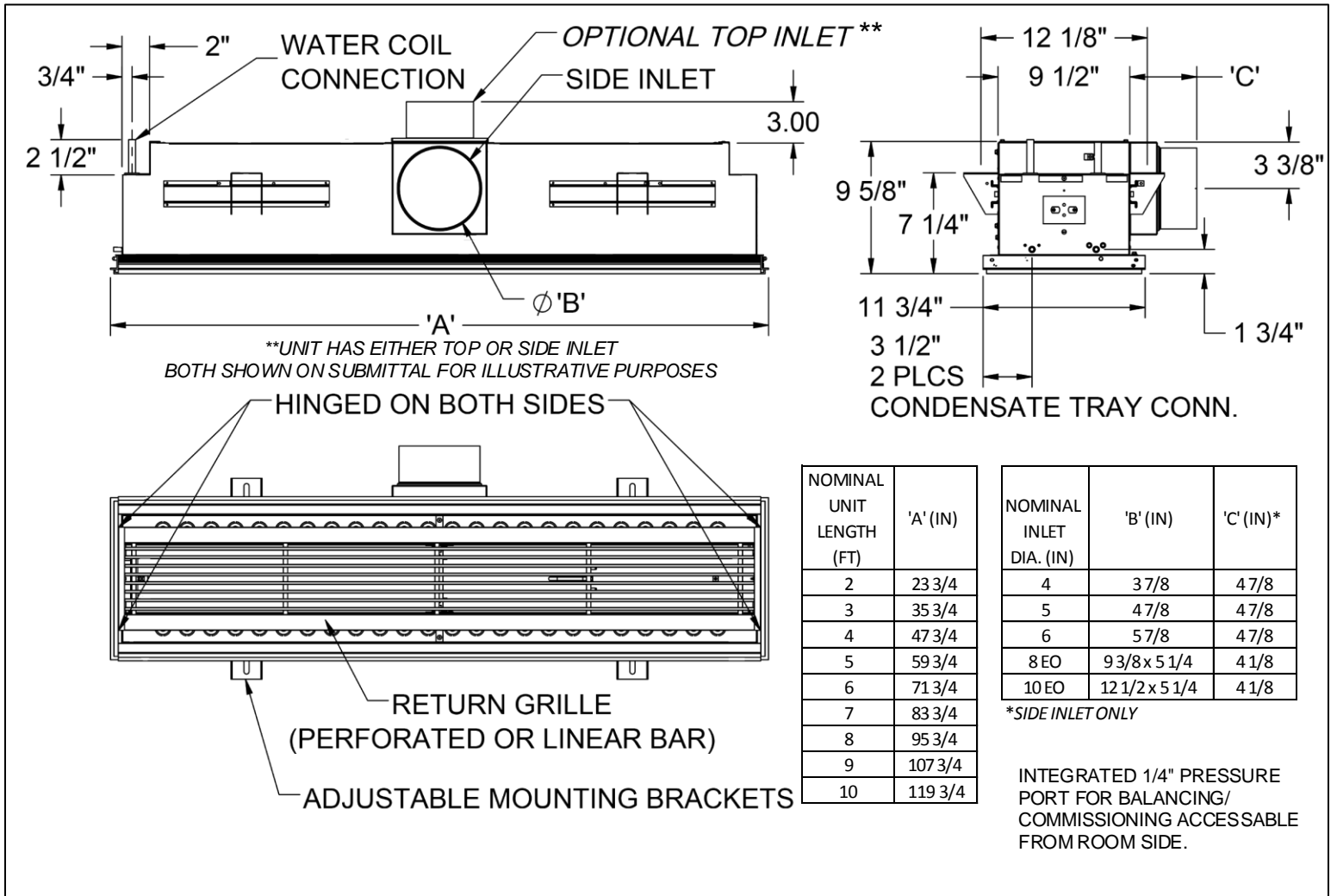


**CBAL 12** • Linear Ceiling Mounted Chilled Beam • 1-Way & 2-Way Discharge • Vertical Coil


## General Description

- 12 inch wide, linear active chilled beam diffuser, available with 1-way or 2-way air distribution.
- Designed to fit into standard 12 inch ceiling grids, available with different borders.
- 2 to 10 feet chilled beam length in 1 feet 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..
- 4, 5, or 6 inch round or 8 and 10 inch equivalent 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.
- Internal casing is painted black, while the exterior face and frame elements are painted white. Paint is powder coat, a mix of polyester and epoxy.

## Basic Unit Configuration

Beam Width  
(nominal- in)

12

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

A1  A2  A3

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)

Face Pattern

Circular Perforation

Coil Type - Water  
Side Connection

2 Pipe - Left Hand

2 Pipe - Right Hand

4 Pipe - Left Hand

4 Pipe - Right Hand

Coil Connection

1/2" Sweat Connection

1/2" MNPT Connection

3/4" MNPT Connection

Exposed Face Finish  
Color

White #26

Black #84

## Accessories

Check  if provided.

1/2" - 12" Stainless Steel Flex Hose

1/2" - 18" Stainless Steel Flex Hose

1/2" - 24" Stainless Steel Flex Hose

3/4" - 18" Stainless Steel Flex Hose

3/4" - 24" Stainless Steel Flex Hose

## Unit Option Details

**OPTIONAL TOP INLET**

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

**ADJUSTABLE MOUNTING BRACKETS**  
USE 3/8" THREADED RODS TO SUSPEND TO CEILING  
(x4 L = 2' TO 6')  
(x8 L = 7' TO 10')

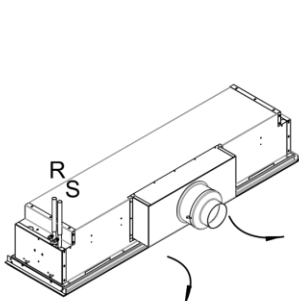
**LB - LINEAR BAR GRILLE**      **CB - CIRCULAR PERFORATION**

**BORDER TYPE**

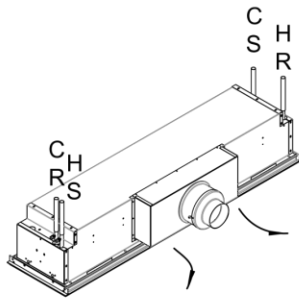
**TEGULAR 9/16"**      **TEGULAR 15/16"**      **LAY IN**

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

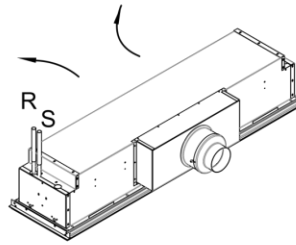
## Inlet, Discharge and Piping Configuration 1-Way Throw Configurations



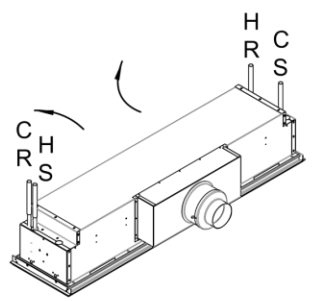
Side Inlet  
1-Way Front Throw  
2-Pipe Left Hand Coil



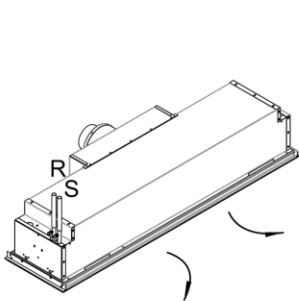
Side Inlet  
1-Way Front Throw  
4-Pipe Left Hand Coil



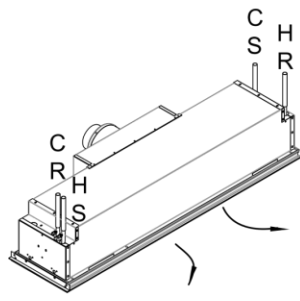
Side Inlet  
1-Way Back Throw  
2-Pipe Left Hand Coil



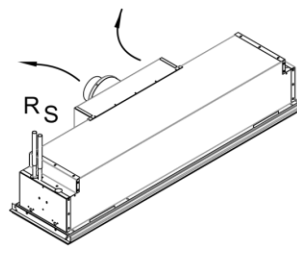
Side Inlet  
1-Way Back Throw  
4-Pipe Left Hand Coil



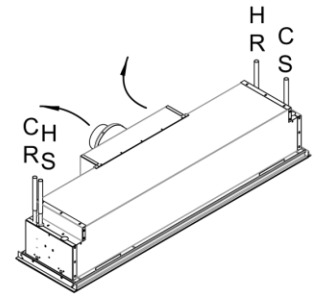
Side Inlet  
1-Way Back Throw  
2-Pipe Right Hand Coil



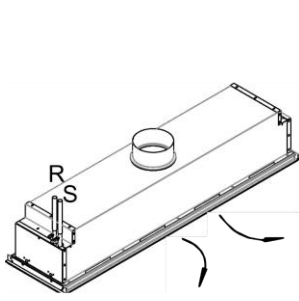
Side Inlet  
1-Way Back Throw  
4-Pipe Right Hand Coil



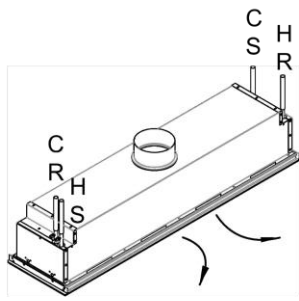
Side Inlet  
1-Way Front Throw  
2-Pipe Right Hand Coil



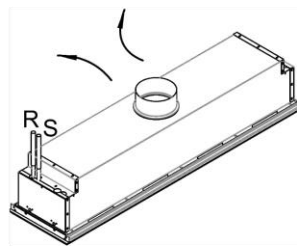
Side Inlet  
1-Way Front Throw  
4-Pipe Right Hand Coil



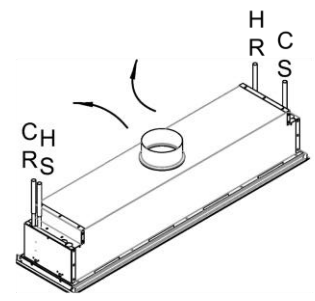
Top Inlet  
1-Way Front Throw  
2-Pipe Left Hand Coil



Top Inlet  
1-Way Front Throw  
4-Pipe Left Hand Coil



Top Inlet  
1-Way Back Throw  
2-Pipe Left Hand Coil



Top Inlet  
1-Way Back Throw  
4-Pipe Left Hand Coil

--  
1-Way Back Throw  
2-Pipe Right Hand Coil

--  
1-Way Back Throw  
4-Pipe Right Hand Coil

--  
1-Way Front Throw  
2-Pipe Right Hand Coil

--  
1-Way Front Throw  
4-Pipe Right Hand Coil

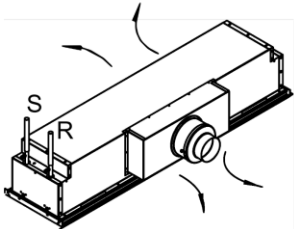
### Legend:

R – Return      S – Supply

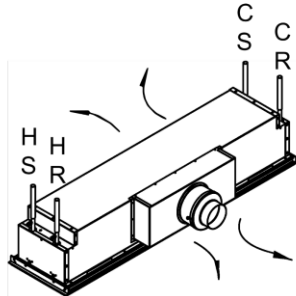
HR – Hot Water Return    HS – Hot Water Supply

CR – Cold Water Return      CS – Cold Water Supply

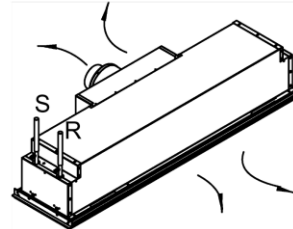
## Inlet, Discharge and Piping Configuration 2-Way Throw Configurations



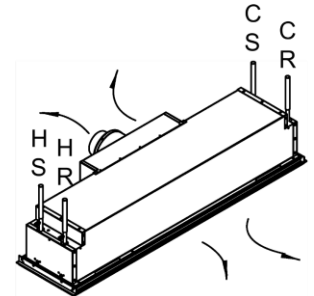
Side Inlet  
2-Way Throw  
2-Pipe Left Hand Coil



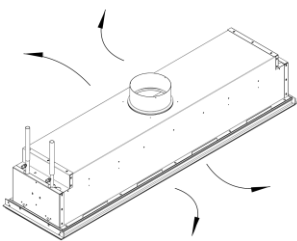
Side Inlet  
2-Way Throw  
4-Pipe Left Hand Coil



Side Inlet  
2-Way Throw  
2-Pipe Right Hand Coil

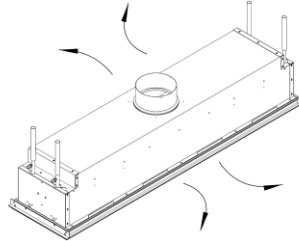


Side Inlet  
2-Way Throw  
4-Pipe Right Hand Coil



Top Inlet  
2-Way Throw  
2-Pipe Left Hand Coil

--  
1-Way Throw  
2-Pipe Right Hand Coil



Top Inlet  
2-Way Throw  
4-Pipe Left Hand Coil

--  
2-Way Throw  
4-Pipe Right Hand Coil

Legend:

R – Return      S – Supply

HR – Hot Water Return    HS – Hot Water Supply

CR – Cold Water Return      CS – Cold Water Supply