

PASSIVE CHILLED BEAMS

BEP

Installation, Operation, and Maintenance

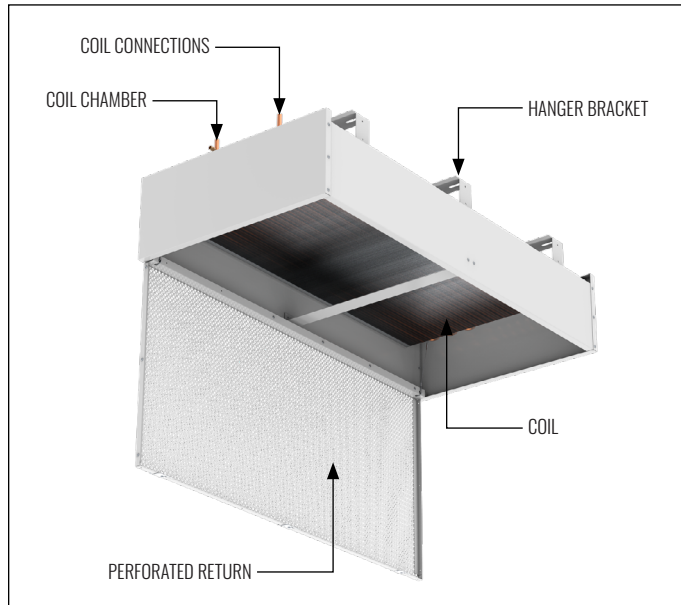
Passive Chilled Beams

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CRITICAL OPERATIONS

Passive Chilled Beam BEP optimizes performance and high level of thermal comfort for spot cooling or additional thermal load applications. For improved serviceability and flexibility, install isolation valves on both the supply and return lines of each individual beam.



HANDLING WARNINGS

1. Team Lift Required
 - A minimum of two (2) people is required for safe handling and installation.
2. Safety Cable
 - Each Krueger chilled beam is equipped with two factory-installed safety cables—refer to drawing below for proper usage.
3. Storage
 - Store beams in their original packaging in a dry, sheltered location until ready for installation.
4. Protective Film
 - Leave the protective film on the beam face during construction to prevent dust or debris from causing damage. Remove only after the workspace is clean.
5. Code Compliance
 - All installations must comply with local codes and regulations.
6. Pre-Installation Checklist
 - Before beginning, gather all required tools and materials, including:
 - Isolation valves
 - Threaded rods
 - Suspension cables or hanging wire
 - Unistrut
 - Bracket securing screws

BEP INSTALLATION

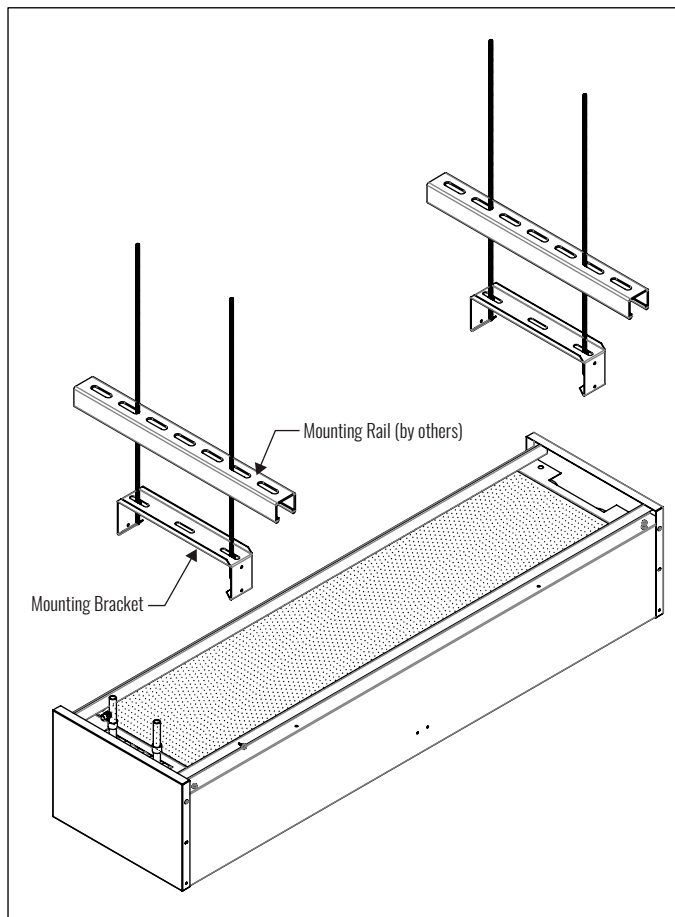
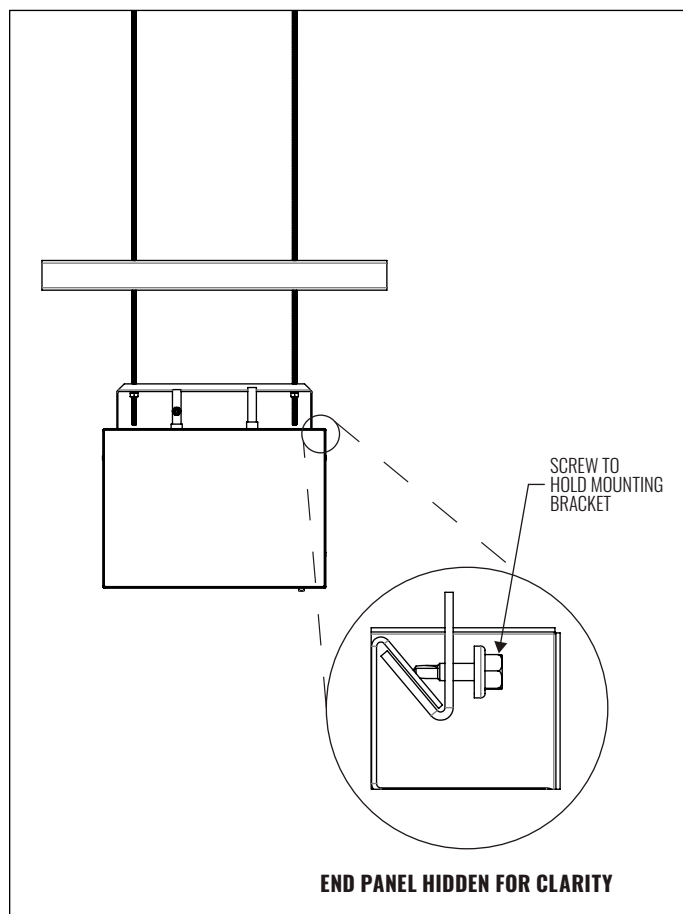
Chilled Beams are best applied when installed no higher than 14 feet above the floor, but can remain effective with installation heights up to 20 feet. When installed above these heights, it is difficult to effectively get cooling into the occupied space. Provide a minimum of 8-12 inches of clearance above the beam to ensure proper performance.

PRE-INSTALLATION CHECK

1. The unit is shipped with two mounting brackets on beams up to 7 feet. Chilled beams above 7 feet in length come with three or four mounting brackets. Brackets are adjustable along length of unit.
2. Verify that all components have been received and are in good condition.

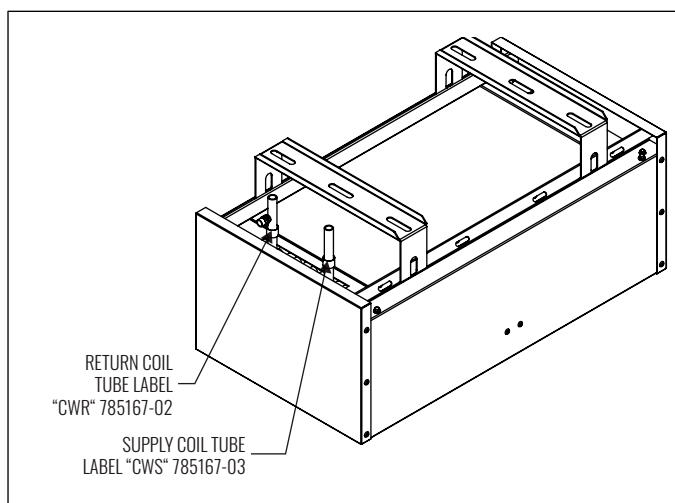
MOUNTING

1. Place mounting rails along plenum length.
2. Insert screws straight into mounting bracket hole to secure against the plenum.
3. Mount the beam using mounting brackets, and threaded rod or hanging wire (not included).
4. After securing to the ceiling, level the beam and verify orientation for piping. Ensure water coil accessibility to supply and return piping.



PIPING

1. Pipe locations are as shown below.



MAINTENANCE

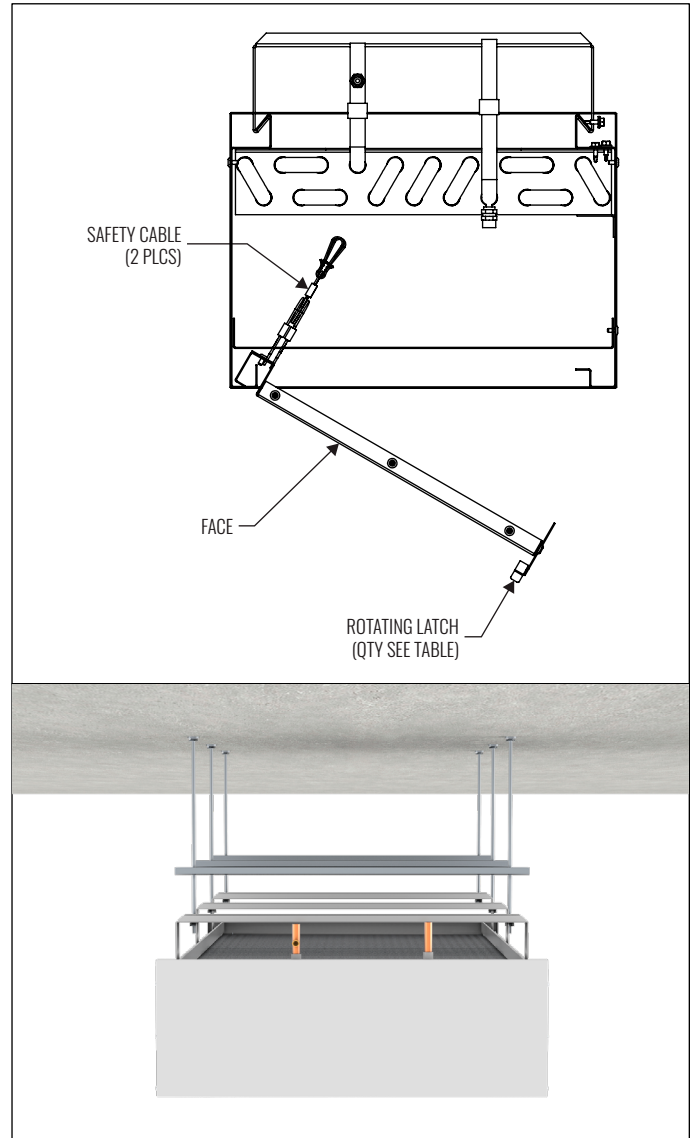
Krueger chilled beams contain no moving parts, reducing ongoing maintenance. The primary task is cleaning the water coil.

Coil Cleaning Procedure:

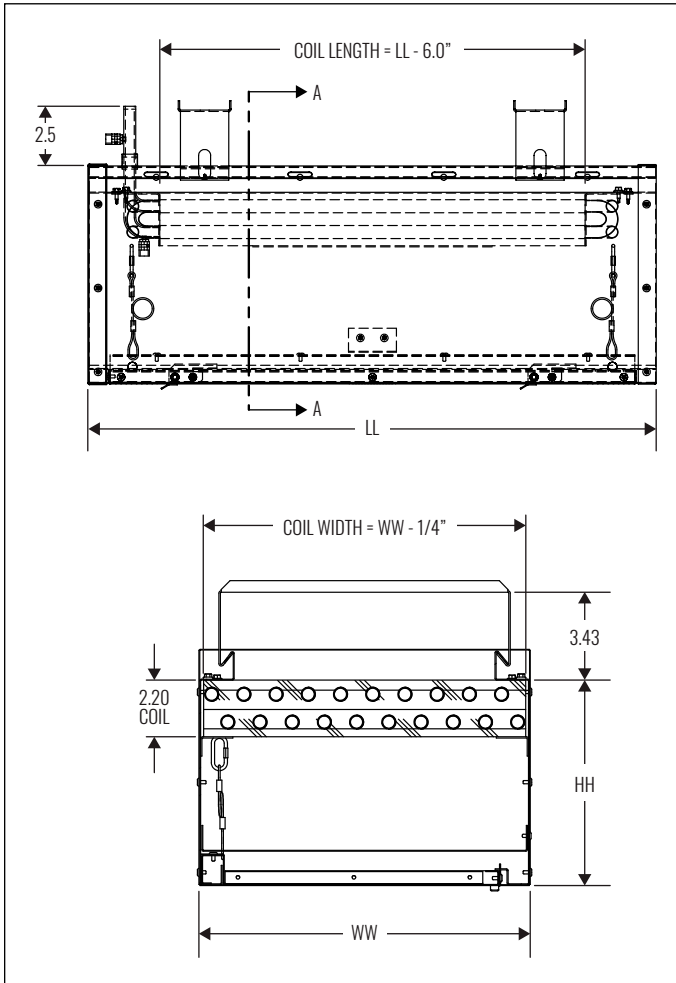
1. Release the spring-loaded pin latches.
2. Fold the grille fully down for access.
3. Clean using a vacuum with soft brush attachment. Do not use abrasive agents—they may damage the coil surface or painted finish.
4. Inspect the suspension system and brazed copper joints for damage or leaks.
5. After cleaning, return the grille to its original position and engage all safety locks.

Coil Removal Procedure:

1. Remove the Face Panel - Detach the face panel to access the internal components.
2. Detach Coil Covers - Remove the coil covers on each side by loosening the two (2) screws. This step provides clearance for coil vent access.
3. Remove Saddle Support (for units 8 ft or longer) - On units measuring 8 feet or longer, remove the saddle support by unscrewing the two (2) securing screws.
4. Detach the Coil from the Support Bracket - Gloves required to handle sharp fins. Remove the three (3) screws on each side securing the coil to the coil support bracket. Carefully extract the coil from the unit.
5. Reinstall Components - Securely replace the coil, coil covers, and face panel in the reverse order of removal.



BEP DIMENSIONS



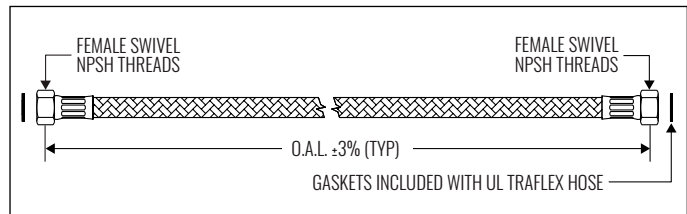
LENGTH	LL	NUMBER OF BRACKETS	DRY COIL WEIGHT[lbs]
2 FT	23 7/8" (606)	2	33
3 FT	35 7/8" (911)	2	48
4 FT	47 7/8" (1216)	3	64
5 FT	59 7/8" (1520)	3	78
6 FT	71 7/8" (1825)	3	94
7 FT	83 7/8" (2130)	3	108
8 FT	95 7/8" (2435)	3	122
9 FT	107 7/8" (2740)	4	138
10 FT	119 7/8" (3044)	4	150

Note: All Dimensions are given as inches (mm).

NOMINAL WIDTH	WW
13"	12 3/4" (323)
18"	17 3/4" (450)
24"	23 3/4" (603)

NOMINAL HEIGHT	HH
8"	8" (203)
10"	10" (254)
12"	12" (304)

FLEXIBLE HOSE INSTALLATION



CONNECTION SIZE	LENGTH
1/2" F	12"
	18"
	24"
3/4" F	18"
	24"

MATERIALS	
CORE	FABRIC REINFORCED EPDM
BRAID	STAINLESS STEEL
FITTING	BRASS OT58
FERRULE	STAINLESS STEEL
REAL	EPDM
ADAPTER	BRASS

The diagram illustrates the relationship between a product label and a specification table. The label contains a barcode, model number (C116352), and other details. The table lists dimensions (width, length, height) and options (vent, drain, connection type, face pattern, finish). Arrows map the label's '13.6.8MDSWTCPWHT' to the table's columns.

Label Details:

- Model: C116352
- Barcode: [Barcode]
- Manufacturer: KRUEGER
- Line #: ORD# X12345 060 - 001
- Sales Order #: 03072025 - 04282025 A
- Ship Date: 1 OF 1
- Line Tag: 13.6.8MDSWTCPWHT

Specification Table:

WIDTH	LENGTH	HEIGHT	VENT	DRAIN	CONNECTION TYPE	FACE PATTERN	FINISH
13"	2'	8"	M - MANUAL AIR VENT	O-NONE	SWT - SWEAT	CP-CIRCULAR PERFORATION	WHT - BRITISH WHITE
18"	3'	10"		D-COIL DRAIN	MPT - 1/2" MALE		BLK - BLACK
24"	4'	12"			3PT - 3/4" MALE		
	5'						
	6'						
	7'						
	8'						
	9'						
	10'						

LIMITED WARRANTY

Unless otherwise expressly stated in KRUEGER's published specifications for the Goods, KRUEGER warrants that Goods are free from defects in material and workmanship, except for services which are warranted to be performed in a competent and diligent manner in accordance with any mutually agreed specifications. The foregoing warranty shall apply for twelve (12) months from the date of shipment from KRUEGER's facility, except for services for which the warranty shall apply for ninety (90) days from the date of performance (the "Warranty Period"). Provided Buyer informs KRUEGER in writing of any breach of warranty prior to the expiration of the applicable Warranty Period, KRUEGER shall, as its sole obligation and Buyer's sole and exclusive remedy for any breach of this warranty, repair or replace/re-perform the Goods which gave rise to the breach or, at KRUEGER' option, refund the amounts paid by Buyer for the Goods which gave rise to the breach. Any repair, replacement or re-performance by KRUEGER hereunder shall not extend the applicable Warranty Period. The parties shall mutually agree on the specifications of any test to determine the presence of a defect. Unless otherwise agreed upon by KRUEGER in writing, Buyer shall bear the costs of access, de-installation, re-installation and transportation of Goods to KRUEGER and back to Buyer. These warranties and remedies are conditioned upon (a) the proper storage, installation, operation, and maintenance of the Goods and conformance with the proper operation instruction manuals provided by KRUEGER or its suppliers or subcontractors, (b) Buyer keeping proper records of operation and maintenance during the applicable Warranty Period and providing KRUEGER access to those records, and (c) modification or repair of the Goods only as authorized by KRUEGER. KRUEGER does not warrant the Goods or any repaired or replacement parts against normal wear and tear or damage caused by misuse, accident, or use against the instructions of KRUEGER. Any modification or repair of any of the Goods not authorized by KRUEGER shall render the warranty null and void. EXCEPT AS EXPRESSLY SET FORTH HEREIN, KRUEGER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE WHICH ARE HEREBY DISCLAIMED TO THE EXTENT PERMITTED BY APPLICABLE LAW.

CONTACT KRUEGER

For warranties, replacement parts, technical support, or any other questions please contact:

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Passive Chilled Beams

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CRITICAL ROOM SOLUTIONS

CHILLED BEAMS

DISPLACEMENT VENTILATION

UNDERFLOOR

Underfloor Diffusers
Underfloor Terminal Units

TERMINAL UNITS

Single Duct
Fan Powered
Dual Duct
Bypass & Retrofit

FAN COILS & BLOWER COILS

Horizontal
Vertical / Stack

DIFFUSERS

Plaque & Architectural
Louvered
Perforated
Modular Core
Linear Slot
Plenum Slot
Round
Air Nozzles

GRILLES & REGISTERS

Supply
Return
Linear Bar
Security
Industrial
Duct Mounted
Transfer
Stainless Steel



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