

SPECIAL CHILLED BEAMS

BAR, BAW, BAB, BAS

Installation, Operation, and Maintenance

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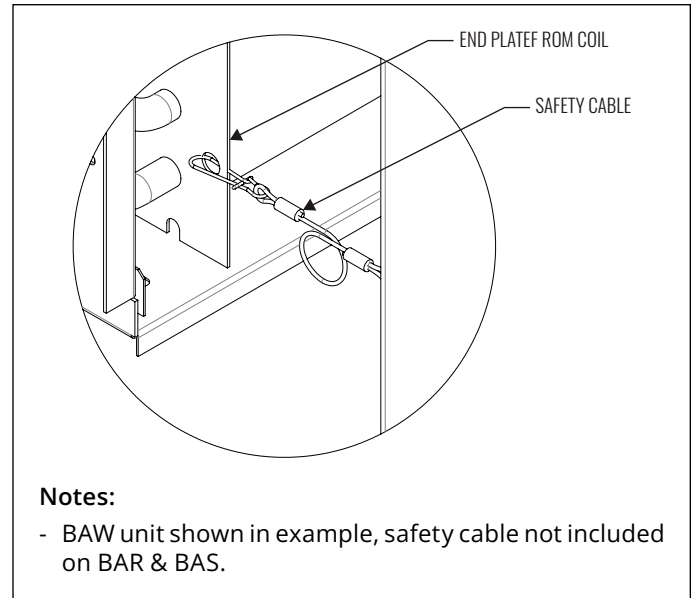
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CRITICAL OPERATIONS

To ensure optimal system performance and consistent thermal comfort for room occupants, connect Linear Active Chilled Beams in a parallel configuration to the building's water distribution system. This setup ensures each beam receives water at the same entering temperature. 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
 - Krueger chilled beams are 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
 - Flexible duct
 - Surface
 - Grilles (if required)

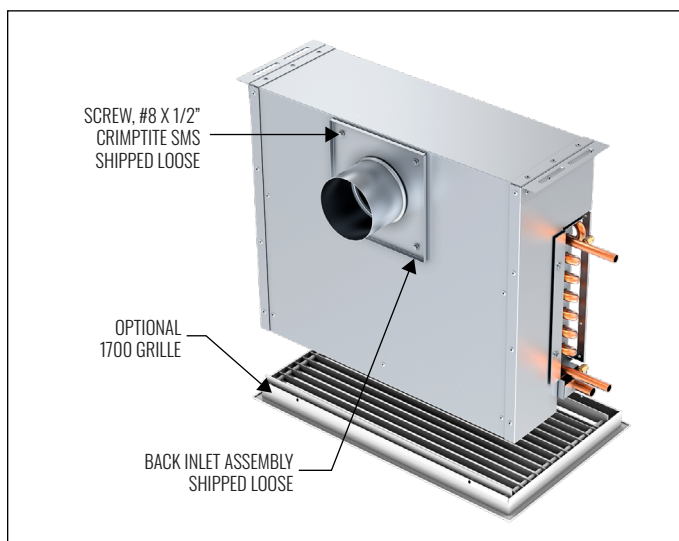
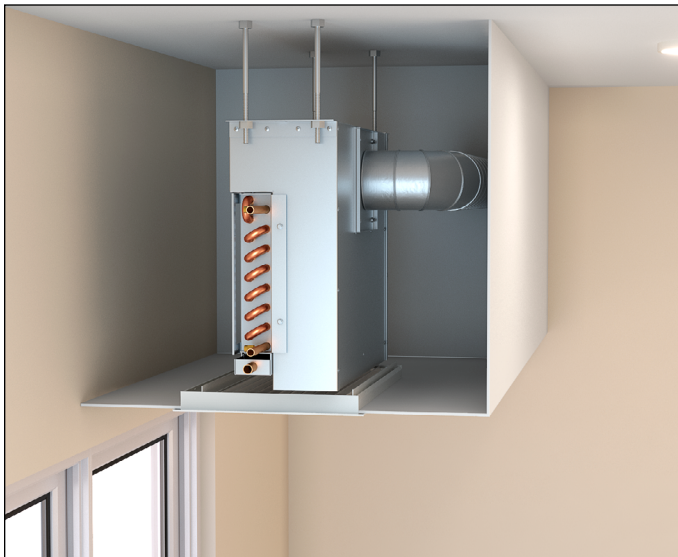
BAR INSTALLATION

BAR models ship with a loose inlet neck.

1. Secure the inlet neck to the back of the unit using four (4) #8 sheet metal screws (not included).
2. Seal all joints to prevent air leakage.
3. Connect the inlet collar to the main duct using flexible duct and sheet metal screws. Ensure airtight connections.

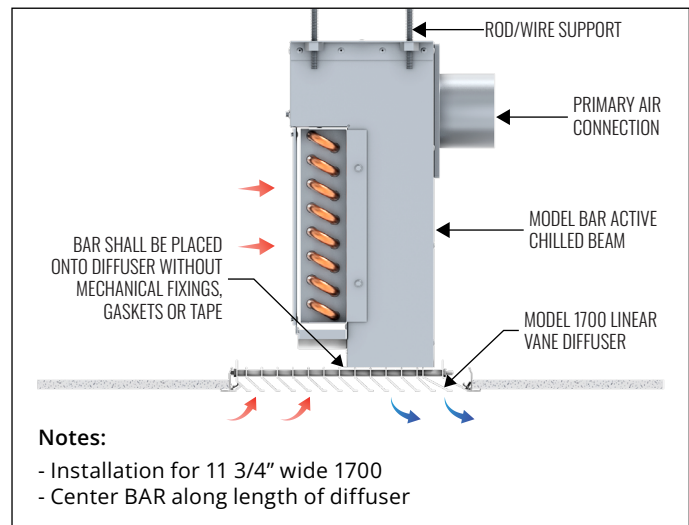
Suspension Requirements

1. BAR comes with two (2) hanger brackets on top side of plenum.
2. Mount the beam using mounting brackets, and threaded rod or hanging wire (not included).



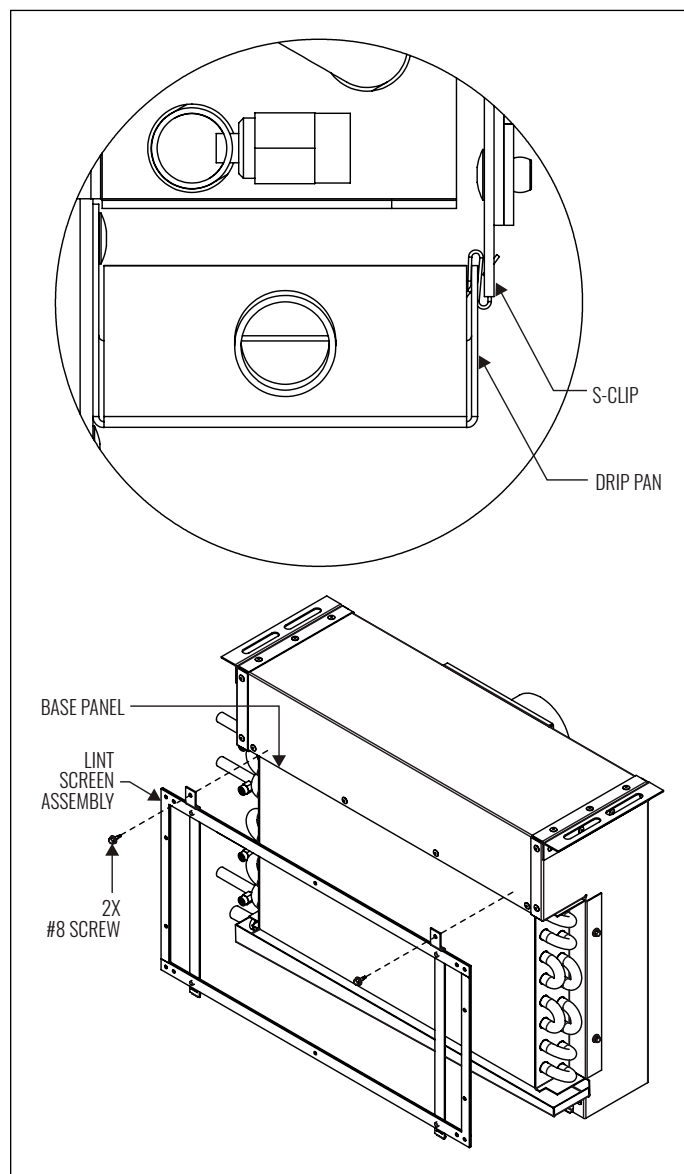
CEILING INTEGRATION

1. If 1700 grille selected (ships separately), beam comes with 11 3/4" wide linear.
2. Install 1700 in ceiling.
3. After securing the assembly to the ceiling, level the beam so it rests properly on the linear diffuser and is orientated correctly.
 - Position the BAR so that it sits within the plenum of the 1700 neck. The coil side should face inward toward the centerline of the 1700 width.
 - Center the BAR along the full length of the 1700.
 - Do not use mechanical fasteners, gaskets, or tape to attached linear to the BAR.
4. Verify that the return side grille allows adequate induced airflow to the coil to prevent performance issues.

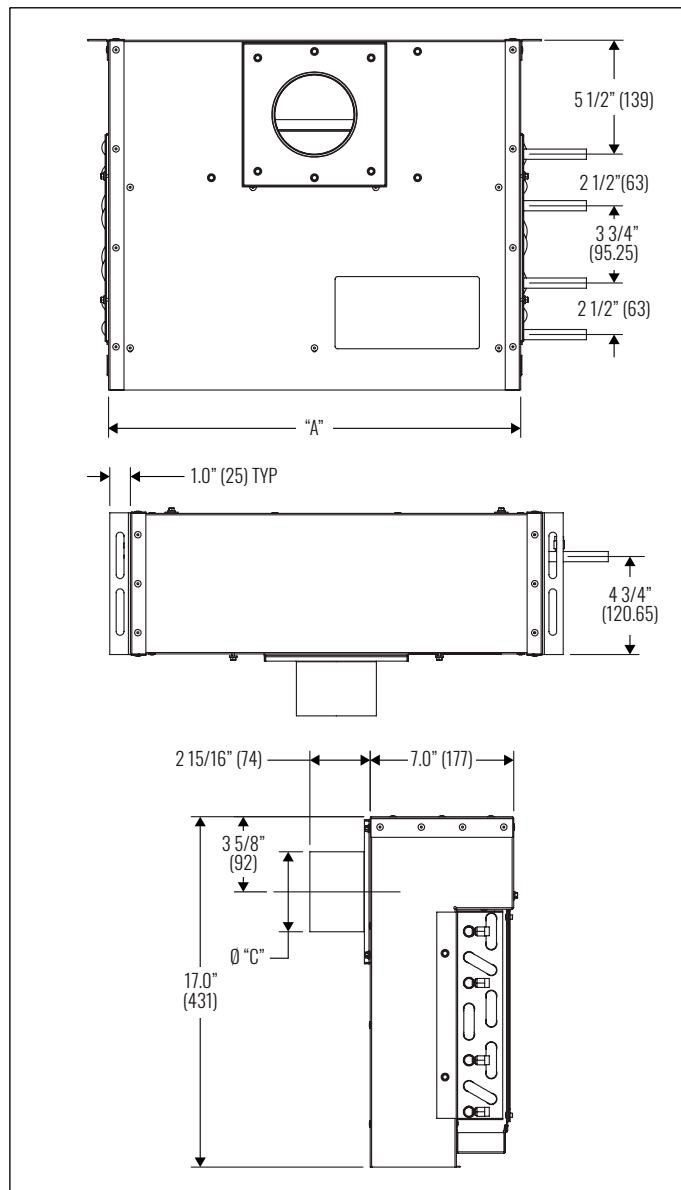


ACCESSORY MAINTENANCE

1. To access drip pan, disconnect from S-clip.
2. Remove screws to clean lint screen before replacing.



BAR DIMENSIONS & COIL CONFIGURATIONS



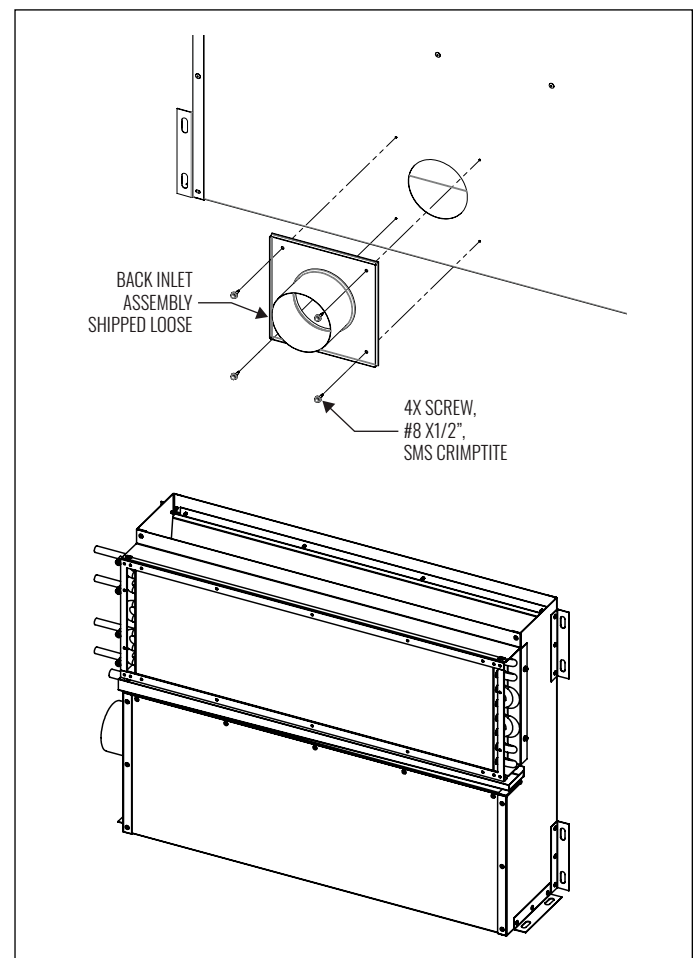
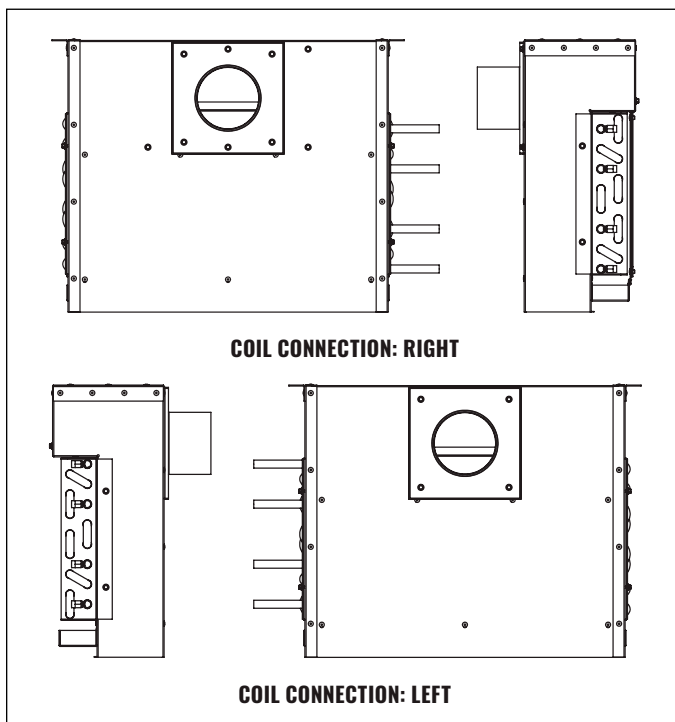
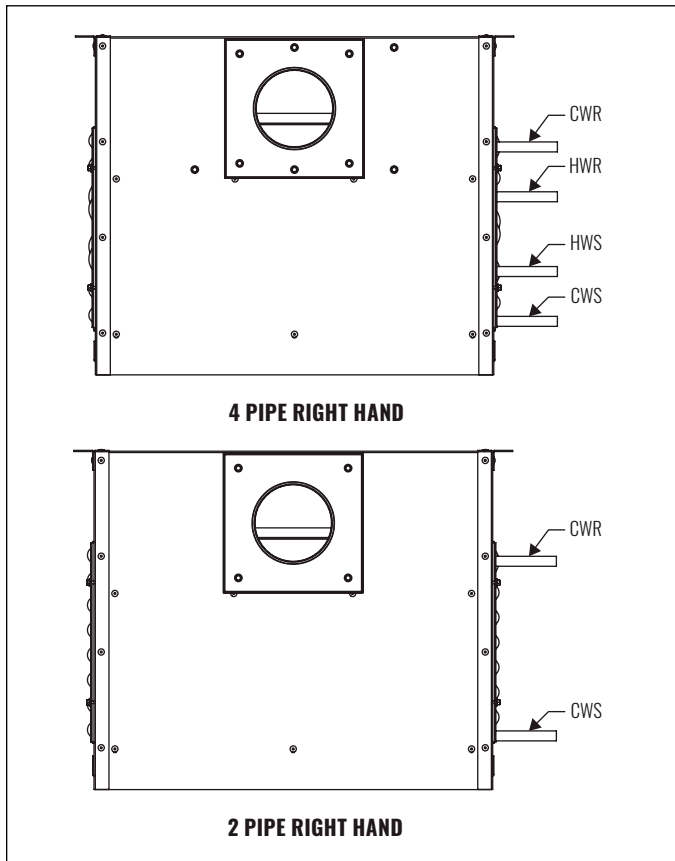
NOMINAL INLET	C	NOMINAL UNIT LENGTH	A
4" ROUND	Ø 3 7/8" (98)	2 FT	20" (508)
5" ROUND	Ø 4 7/8" (123)	3 FT	32" (812)
6" OVAL	5 1/4" X 6 1/4" (133 x 158)	4 FT	44" (1117)
8" OVAL	6 1/4" X 9 3/8" (158 x 238)	6 FT	68" (1727)
		8 FT	92" (2336)

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

BAS INSTALLATION

BAS models ship with a loose inlet neck.

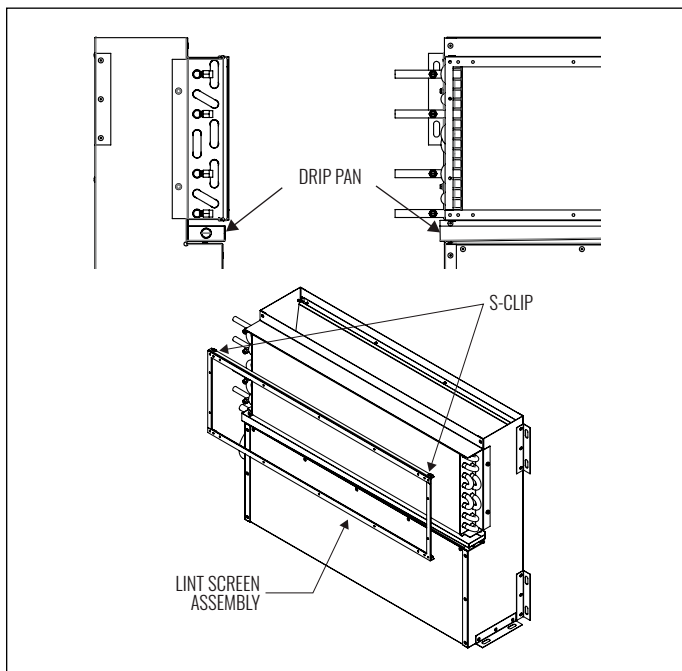
1. Secure the inlet neck to the back of the unit using four (4) #8 sheet metal screws (not included).
2. Seal all joints to prevent air leakage.
3. Connect the inlet collar to the main duct using flexible duct and sheet metal screws. Ensure airtight connections.
4. Mount the beam to framing using attached six (6) mounting brackets. Finish sill around the BAS. Extend inlet collar to supply (not included).
5. Verify return coil access to inducted air in finished sill to avoid performance issues.



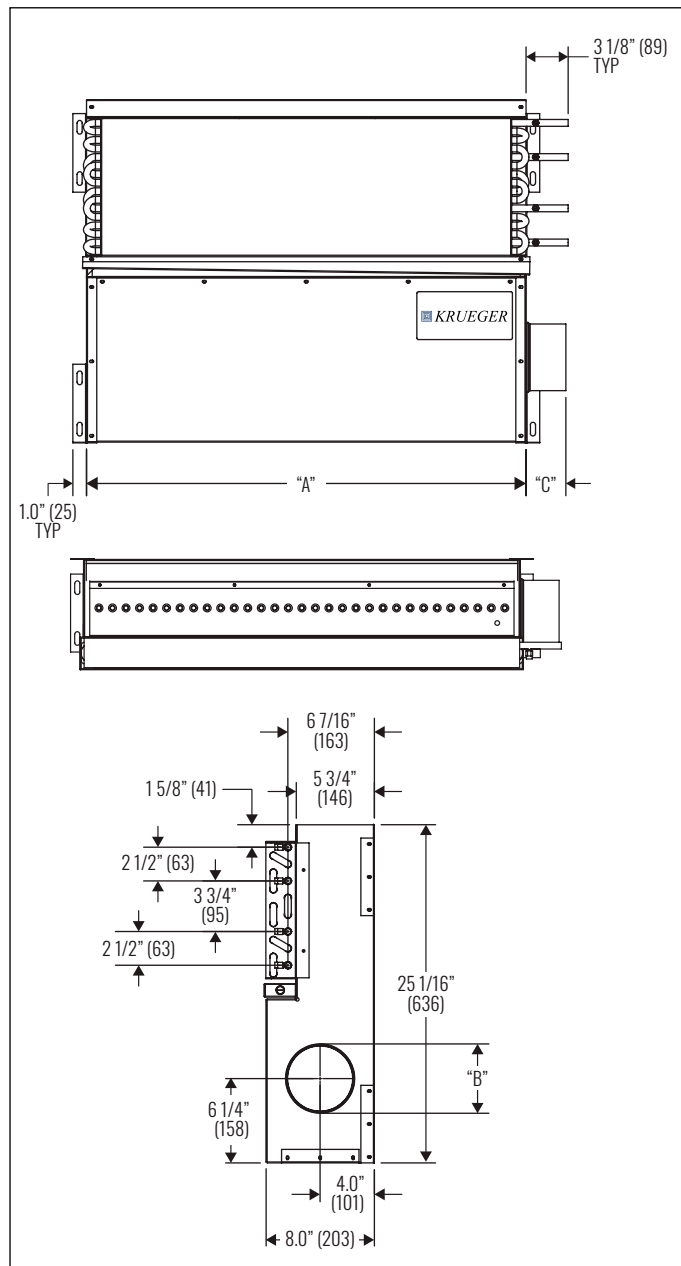


ACCESSORY MAINTENANCE

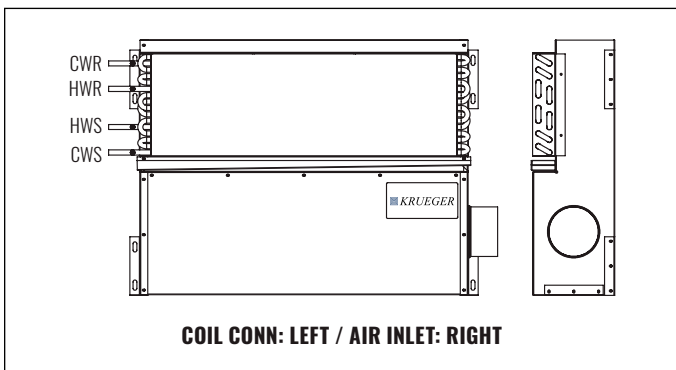
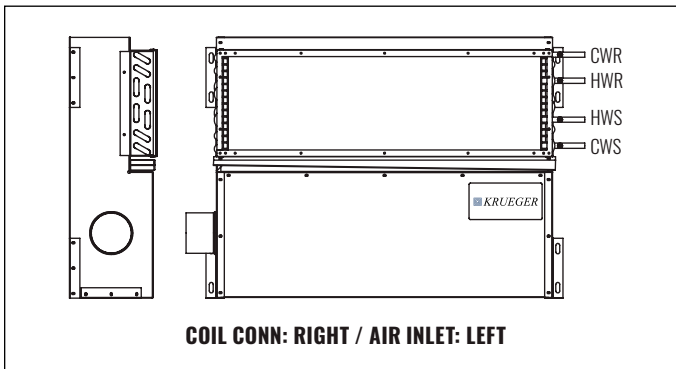
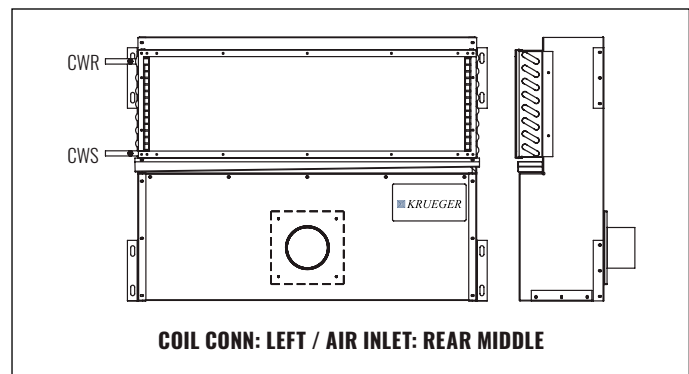
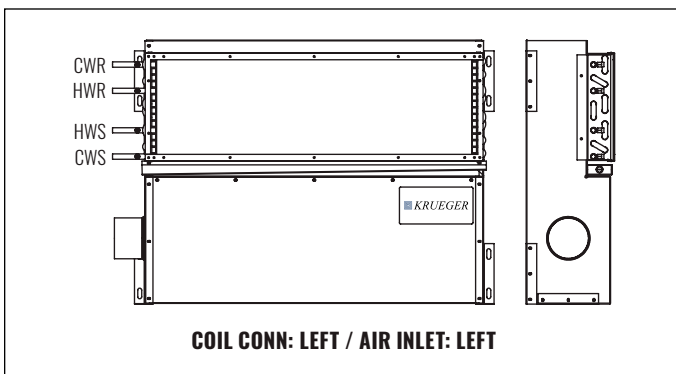
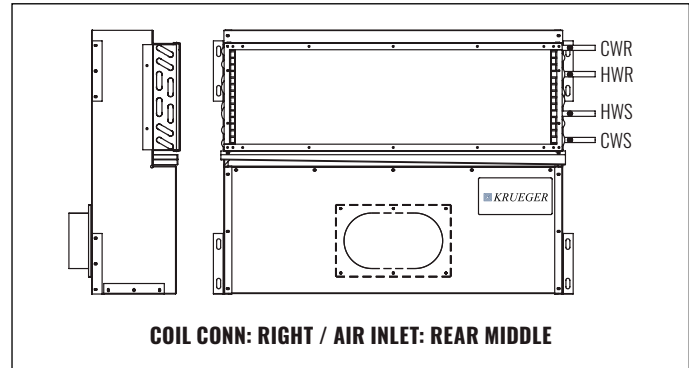
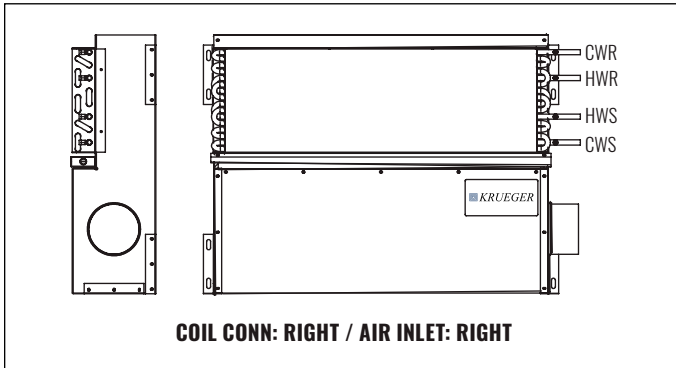
1. To access drip pan, see location below.
2. Remove lint screen by pulling off of S-clips attached to the coil chamber.



BAS DIMENSIONS & COIL CONFIGURATIONS



NOMINAL UNIT LENGTH	A	NOMINAL INLET	B	C
3 FT	32 3/16" (817)	4"	Ø 3 7/8" (98)	3" (76)
4 FT	44 3/16" (1122)	5"	Ø 4 7/8" (123)	3" (76)
5 FT	56 3/16" (1427)	6"	5 1/4" X 6 1/4" (133 x 128)	2 1/4" (57)
6 FT	68 3/16" (1731)	8"	5 1/4" X 9 3/8" (158 x 238)	2 1/4" (57)



R - RETURN **S** - SUPPLY

HWR - HEATING WATER RETURN **HWS** - HEATING WATER SUPPLY

CWR - COOLING WATER RETURN **CWS** - COOLING WATER SUPPLY

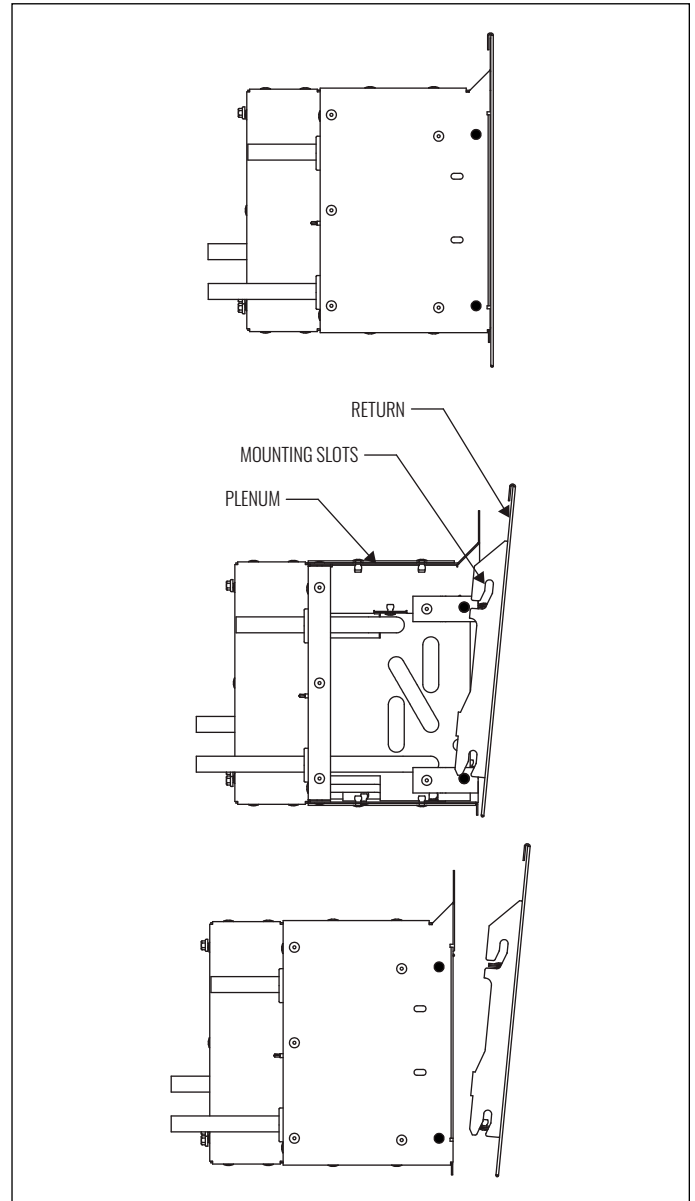
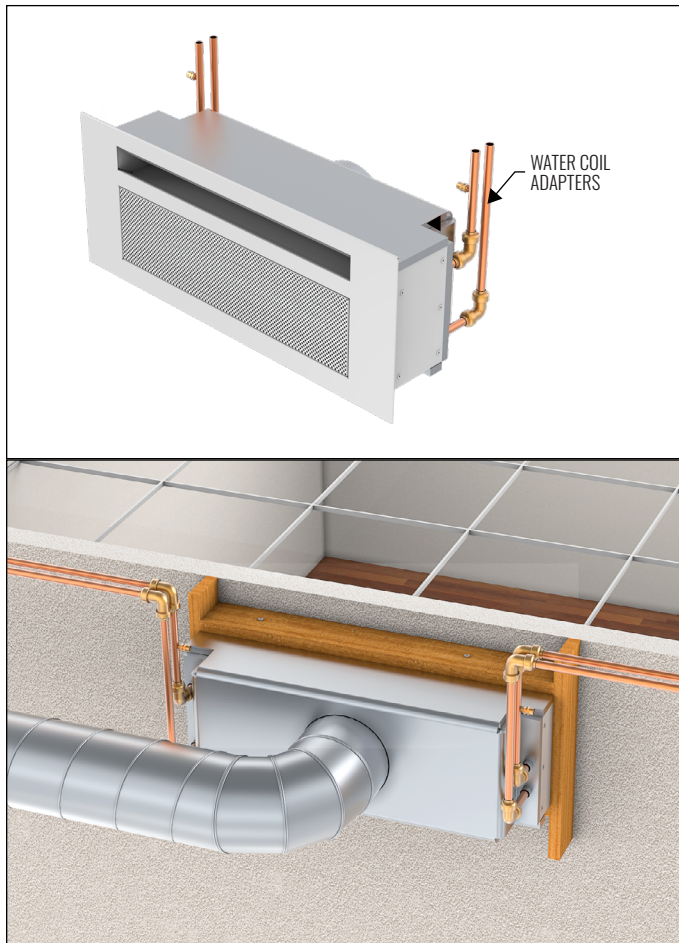
*HOT WATER CONNECTIONS ON 4-PIPE COIL ONLY

BAW INSTALLATION

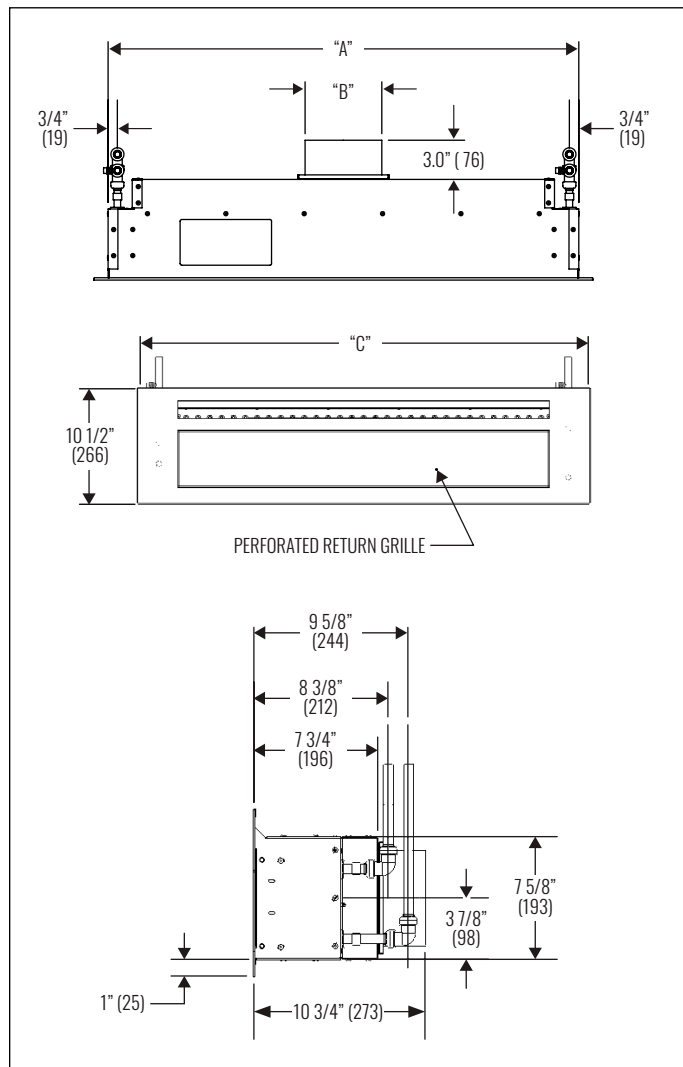
BAW models ship with water coil adapters loose.

1. Remove BAW's face by lifting the face up and out of plenum.
2. Prepare mounting holes by drilling pilot holes through the top and bottom panels of the plenum at locations that align with wall framing.
3. Install BAW into wall framing through the drilled holes using self tapping screws (#10 or #12 typical).
4. Secure water coil adapter (sweat connection) and any braided hoses. Seal all joints to prevent air leakage.
5. Connect the inlet collar to the main duct using flexible duct and sheet metal screws. Ensure airtight connections.
6. Reinstall face to BAW, ensuring face is resting on all four pins.
7. Finish wall around chilled beam.

CAUTION: Verify drill depth and screw length to prevent contact with the internal coil.

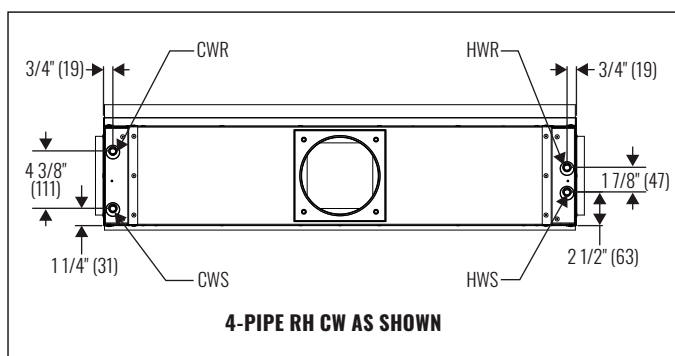
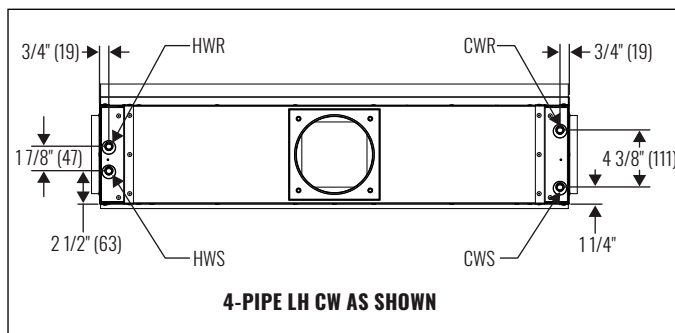


BAW DIMENSIONS & COIL CONFIGURATIONS



NOMINAL INLET	B
4" ROUND	Ø 3 7/8" (98)
5" ROUND	Ø 4 7/8" (123)
6" ROUND	Ø 5 7/8" (149)
8" OVAL	9 3/8" X 5 1/4" (238 x 133)

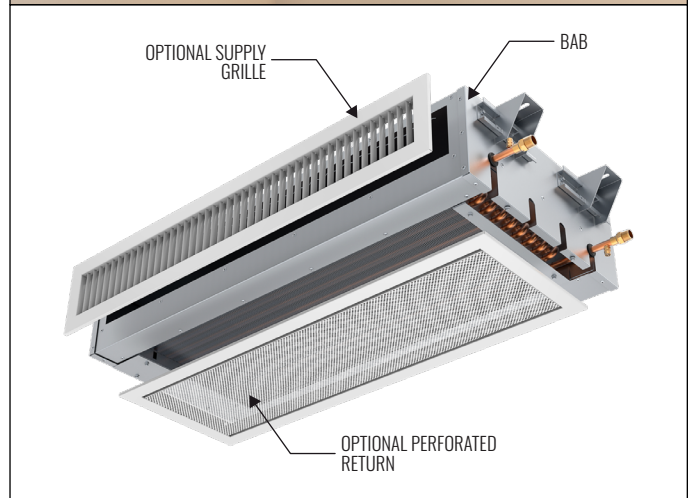
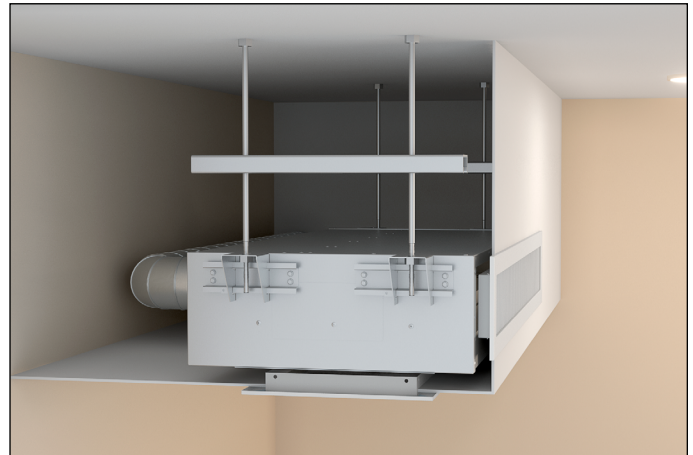
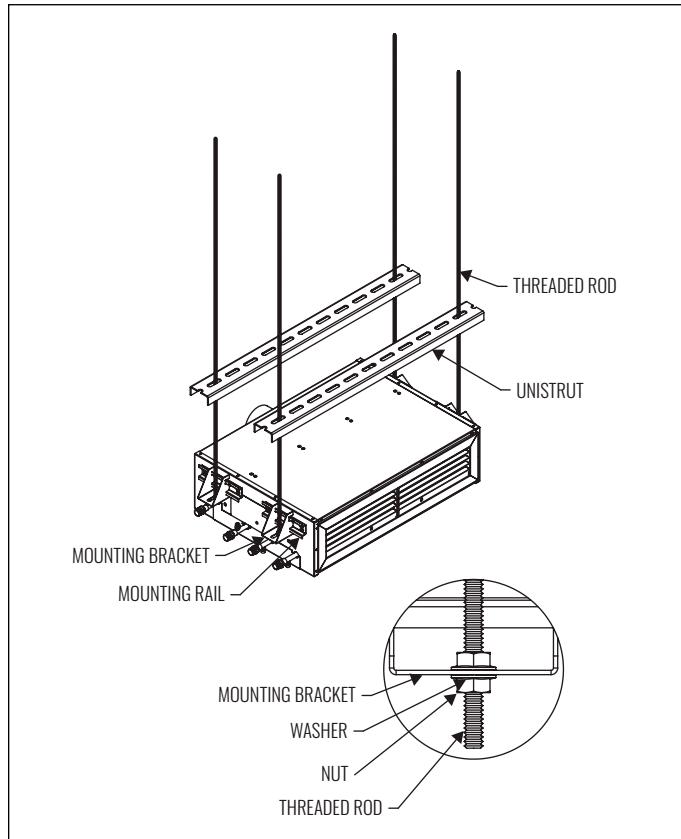
MODULE SIZE	A	C
2 FT	24" (609)	26 1/4" (666)
3 FT	36" (914)	38 1/4" (971)
4 FT	48" (1219)	50 1/4" (1276)
5 FT	60" (1524)	62 1/4" (1581)
6 FT	72" (1828)	74 1/4" (1885)
7 FT	84" (2133)	86 1/4" (2190)
8 FT	96" (2438)	98 1/4" (2495)
9 FT	108" (2743)	110 1/4" (2800)
10 FT	120" (3048)	122 1/4" (3105)



BAB INSTALLATION

BAB models ship with optional grilles shipped separately.

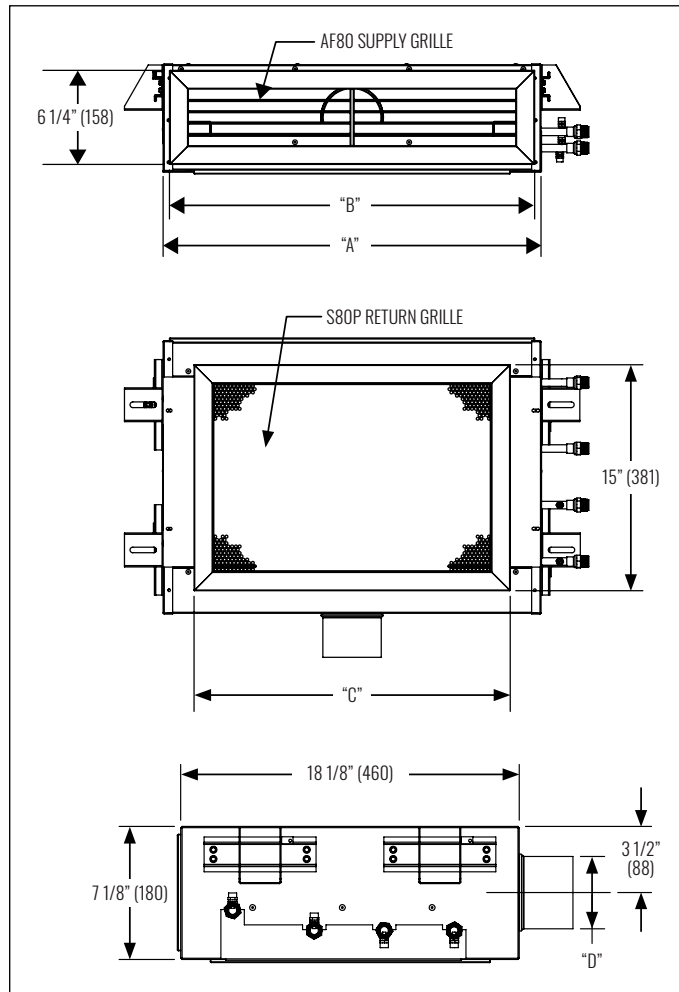
1. BAB comes with two (2) hanger brackets on top side of plenum.
2. Mount the beam using mounting brackets, and threaded rod or hanging wire (not included).
3. Connect the inlet collar to the main duct using flexible duct and sheet metal screws. Ensure airtight connections.



CEILING INTEGRATION

1. If supply grille is selected (ships separately), beam comes with AF80 linear. If CP selected, S80P return grille ships separately.
2. Install supply grilles for sidewall applications.
3. After securing the BAB to the ceiling, level the beam and verify orientation for piping and inlet placement. The BAB inlet should rest inside the inlet of the supply grille with a duct sleeve if needed. Supply grille should be mounted close to ceiling with Coanda air pattern to avoid performance issues. Do not use mechanical fixing, gaskets or tape.
4. Mount return grille under coil.
5. Verify return grille allows adequate airflow to the coil to avoid performance issues. Please note, other installations are available with additional Krueger AE support.

BAB DIMENSIONS



NOMINAL LENGTH	A	B	C
2 FT	25 1/8" (638)	24 1/4" (615)	21" (533)
3 FT	37 1/8" (942)	36 1/4" (920)	33" (838)
4 FT	49 1/8" (1247)	48 1/4" (1225)	45" (1143)
5 FT	61 1/8" (1552)	60 1/4" (1530)	57" (1447)
6 FT	73 1/8" (1857)	72 1/4" (1835)	69" (1752)

INLET	D
4" ROUND	Ø 3 7/8" (98)
5" ROUND	Ø 4 7/8" (123)
6" OVAL	5 1/4" X 6 1/4" (133 x 158)
8" OVAL	5 1/4" X 9 3/8" (133 x 238)

BALANCING GUIDELINES

1. Once installed, connect and secure any isolation or balancing valves.
2. Refer to unit labels to identify supply and return lines.
3. Test water flow rates and inspect for leaks. Flush the system as needed to remove contaminants.
4. Attach the inlet collar to the primary air source. Avoid sharp duct bends near the inlet. Seal all duct connections thoroughly.
5. Measure plenum static pressure using the factory-installed pressure port.
 - Remove port plug.
 - Insert a calibrated manometer (not included).
 - Use published commissioning charts for performance reference.

WATER PIPE CONNECTION TYPE

CHILLED (WATER) SWEAT, 1/2" MALE NPT, OR 3/4" MALE NPT

HOT (WATER) SWEAT, 1/2" MALE NPT, OR 3/4" MALE NPT

Note: Hoses ordered separately, model CBHK

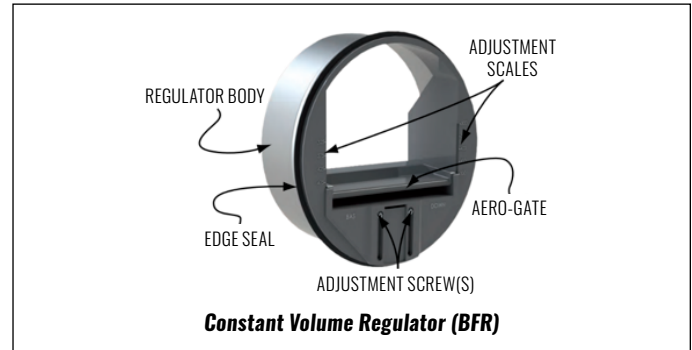
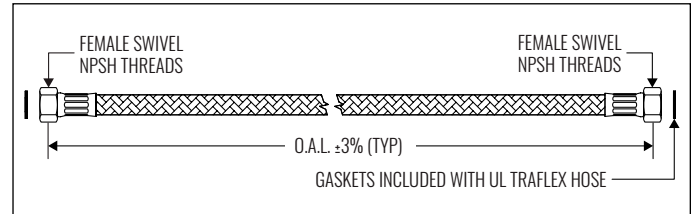
WEIGHTS - DRY COIL [LBS]

LENGTH	BAR	BAS	BAW	BAB
2 FT	20	-	35	26
3 FT	31	36	54	36
4 FT	39	48	72	44
5 FT	-	59	86	53
6 FT	58	70	105	63
7 FT	-	-	120	-
8 FT	78	-	140	-
9 FT	-	-	160	-
10 FT	-	-	180	-

REPLACEMENT PARTS & ACCESSORIES

BEAM APPLICATION	MODEL TO ORDER	BEAM-SIZE	CONFIGURATION
BAB SUPPLY GRILLE	AF80	BAB-2	22*50*4*50*NONE*1*26*N*0*0*0*0*0
		BAB-3	34*50*4*50*NONE*1*26*N*0*0*0*0*0
		BAB-4	46*50*4*50*NONE*1*26*N*0*0*0*0*0
		BAB-5	58*50*4*50*NONE*1*26*N*0*0*0*0*0
		BAB-6	70*50*4*50*NONE*1*26*N*0*0*0*0*0
BAB RETURN GRILLE	S80P	BAB-2	19*25*13*25*NONE*1*26*N*0*0*0*0*0
		BAB-3	31*25*13*25*NONE*1*26*N*0*0*0*0*0
		BAB-4	43*25*13*25*NONE*1*26*N*0*0*0*0*0
		BAB-5	55*25*13*25*NONE*1*26*N*0*0*0*0*0
		BAB-6	67*25*13*25*NONE*1*26*N*0*0*0*0*0
BAR SUPPLY GRILLE	1700	BAR-2	1700* 24*11-3/4*1A*26*N*0*0*0*0*0
		BAR-3	1700* 36*11-3/4*1A*26*N*0*0*0*0*0
		BAR-4	1700* 48*11-3/4*1A*26*N*0*0*0*0*0
		BAR-6	1700* 72*11-3/4*1A*26*N*0*0*0*0*0
		BAR-8	1700* 96*11-3/4*1A*26*N*0*0*0*0*0
BAR w/ RETURN SECTION GRILLE	1700	BAR-2	1700* 48*11-3/4*1A*26*N*0*0*0*0*0
		BAR-3	1700* 72*11-3/4*1A*26*N*0*0*0*0*0
		BAR-4	1700* 96*11-3/4*1A*26*N*0*0*0*0*0
		BAR-6	1700* 144*11-3/4*1A*26*N*0*0*0*0*0
		BAR-8	1700* 192*11-3/4*1A*26*N*0*0*0*0*0

ACCESSORY INSTALLATION



MANUFACTURING TAG DETAIL

C116352

C25AK67451



KRUEGER

ORD# X12345 060 - 001

03072025 - 04282025 A

1 OF 1

MODEL

BAR

LINE TAG

TAG#XXX

6,M3102P1CMDRSWTLH8000

ORD#

060

001

03072025

04282025

A

1 OF 1

LENGTH	NOZZLE	THROW	PIPING	VENT	DRAIN	COIL CONNECTION	CONNECTION TYPE	INLET LOCATION***	INLET SIZE	FACE PATTERN*	INSULATION	ACCESSORIES
2'	M13	O-NONE	2P1C	M-MANUAL AIR VENT	O-NONE	L-LEFT	SWT-SWEAT	LH-LEFT HAND	4"	O - NONE	O-NONE	O-NONE
3'	M17	L1-LOUVERED GRILLE*	2P2C*		D-DRAIN PAN	R-RIGHT	MPT-1/2" MALE*	RH-RIGHT HAND	5"	CP-CIRCULAR PERFORATION	I-INTERNAL CLOSED CELL INSULATION LINER	
4'	M23	S-SUPPLY GRILLE**	4P1C				3PT-3/4" MALE*	RM-REAR MIDDLE	6"			
5'	M31		4P2C*						8"			
6'		R-RETURN GRILLE**										
7'												
8'												
9'												
10'												

Note: * BAB only | ** BAR only | *** BAS only

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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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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