CLAMPING SYSTEM
INSTALLATION INSTRUCTIONS

Standard Unit Sizes		
Nominal Unit	Cutout Width	Cutout Height
24 x 24	23.125	23.125
36 x 24	35.125	23.125
48 x 24	47.125	23.125
60 x 24	59.125	23.125
72 x 24	71.125	23.125

STAINLESS STEEL
CRITICAL ENVIRONMENT
LAMINAR FLOW DIFFUSERS & FAN FILTER UNITS

The diffuser is fully assembled from the factory, with the exception of the HEPA filter option. The HEPA filter is shipped separately.

NOTE: These instructions are for clamp mounting to a sealed ceiling.

1. Carefully remove the unit from the shipping carton and inspect for damage that may have occurred during shipping. If shipping damage is found, <u>do not install</u>. Call your rep, salesman, or manufacturer to report damage.

2. Wipe down unit to remove shipping dust and debris.

3. **Prepare the ceiling**: Cut a rectangular hole in the desired location 0.875" smaller than the nominal size of the diffuser. If needed, frame the hole with 2x4 wood or equivalent steel studs. Always measure the units to verify dimensions before making cuts.

4. Using a flat screw driver, release the face frame by rotating the quarter-turn fasteners counter clock-wise. Unhook the safety cables from the unit. Set the frame aside.

5. Raise the unit into the framed opening until the unit is tight against the ceiling. **Ensure** that all clamping mounts are in the install position before installing. (See Page 2 for Example) It is recommended to further support the unit from above using the tabs welded to the plenum.

6. Secure the unit in the ceiling by using the clamping system mounts. <u>See page 2</u> for more details.

7. Install duct work as required. Clean installation debris from the unit and surrounding ceiling.

8. Using approved caulk, seal the outer perimeter of the diffuser to the ceiling. Also seal around the mounting screws and any other holes made in the diffuser.

9. If applicable, install the HEPA filter per the "Removal and Replacement of the HEPA Filter with Gel Seal" section on page 7 of the Critical Environment IOM.

10. Wait at least 30 minutes after filter install and ensure there is a positive pressure in the room before performing any challenge leak testing.

11. Raise the face frame back in to place, re-attach the safety chains, and secure the quarter-turn fasteners.

Hard Ceiling Example

Height 23.13

STEP 3

Width 47.13

CEILING CUTOUT EXAMPLE

STEP 5 — Hanger Tabs (4)

STEP 4 — Face Frame — Hard Ceiling Example

Clamping System Mounts Typ (8)

STEP 6

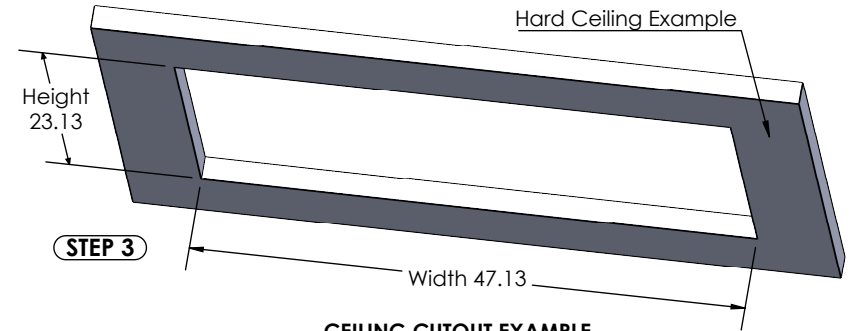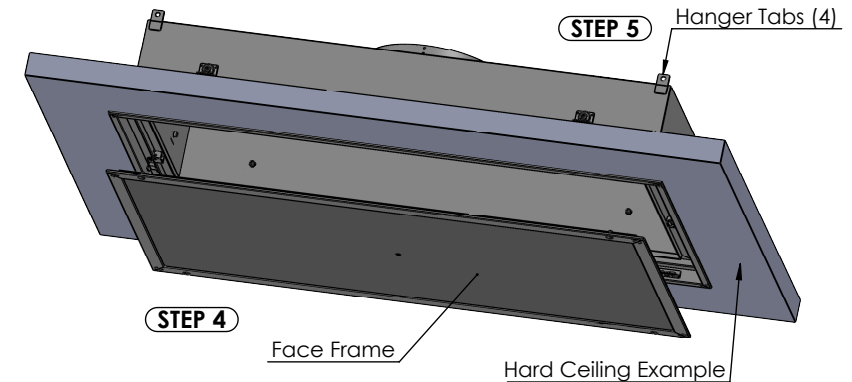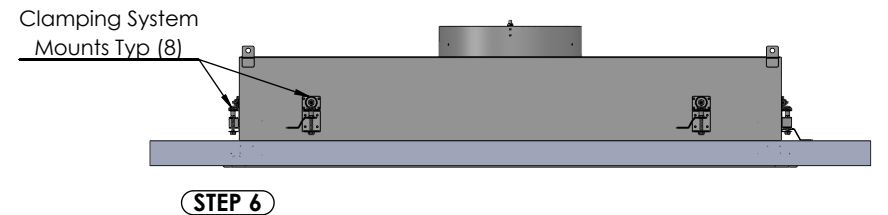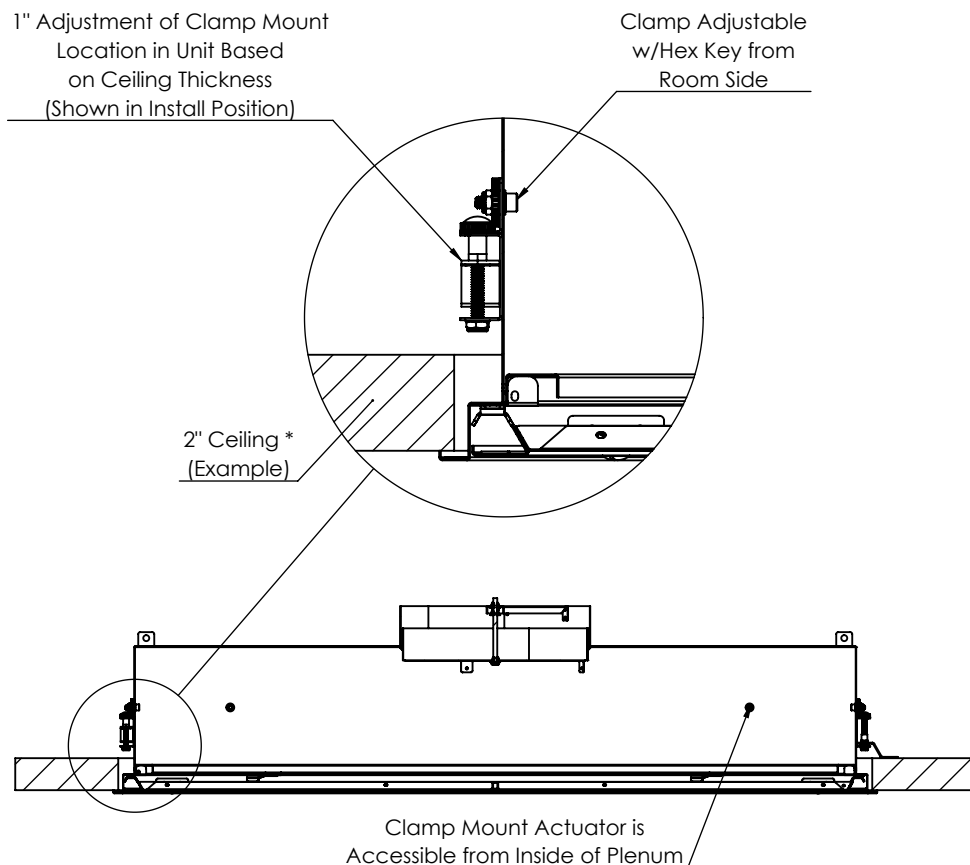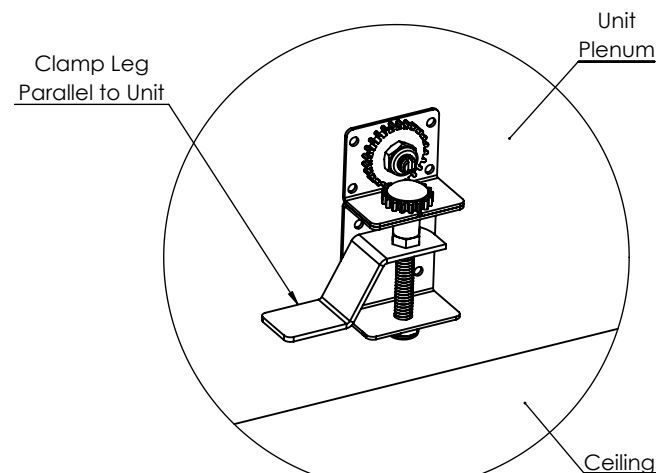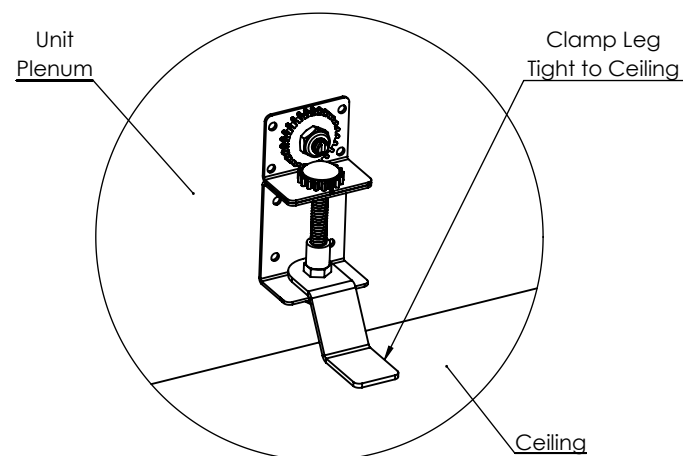|	AJ Manufacturing 8701 Elmwood Avenue #400 Kansas City, MO 64132 Phone: (816) 231-5522 Fax: (816) 231-8437 www.AJmfg.com	DRAWN SLG	CATEGORY CLAMPING SYSTEM INSTALLATION INSTRUCTIONS	TAG	QTY	REV #
		CHKD RH	PRODUCT LAMINAR FLOW DIFFUSERS & FAN FILTER UNITS	DRAWING NAME		SHT 1/2
		APRVD 01/05/2022	SIZE			SCL 1:16
						DO NOT SCALE

Clamping System Detail

1. Once the unit is raised into the framed opening until tight against the ceiling, use a hex key to turn the clamp mount actuator counter-clockwise until it is tight to the ceiling.

2. Repeat step 1 until all 8 clamp mounts are tight to the ceiling.

1" Adjustment of Clamp Mount Location in Unit Based on Ceiling Thickness (Shown in Install Position)

Clamp Adjustable w/Hex Key from Room Side

2" Ceiling * (Example)

Clamp Mount Actuator is Accessible from Inside of Plenum

STAINLESS STEEL

CRITICAL ENVIRONMENT
LAMINAR FLOW DIFFUSERS & FAN FILTER UNITS

Clamp Leg Parallel to Unit

Unit Plenum

Ceiling

Install Position

Unit Plenum

Clamp Leg Tight to Ceiling

Ceiling

Clamped Position

* CLAMPS CAN BE CUSTOM DESIGNED FOR DIFFERENT CEILING THICKNESSES

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					SHT 2/2
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