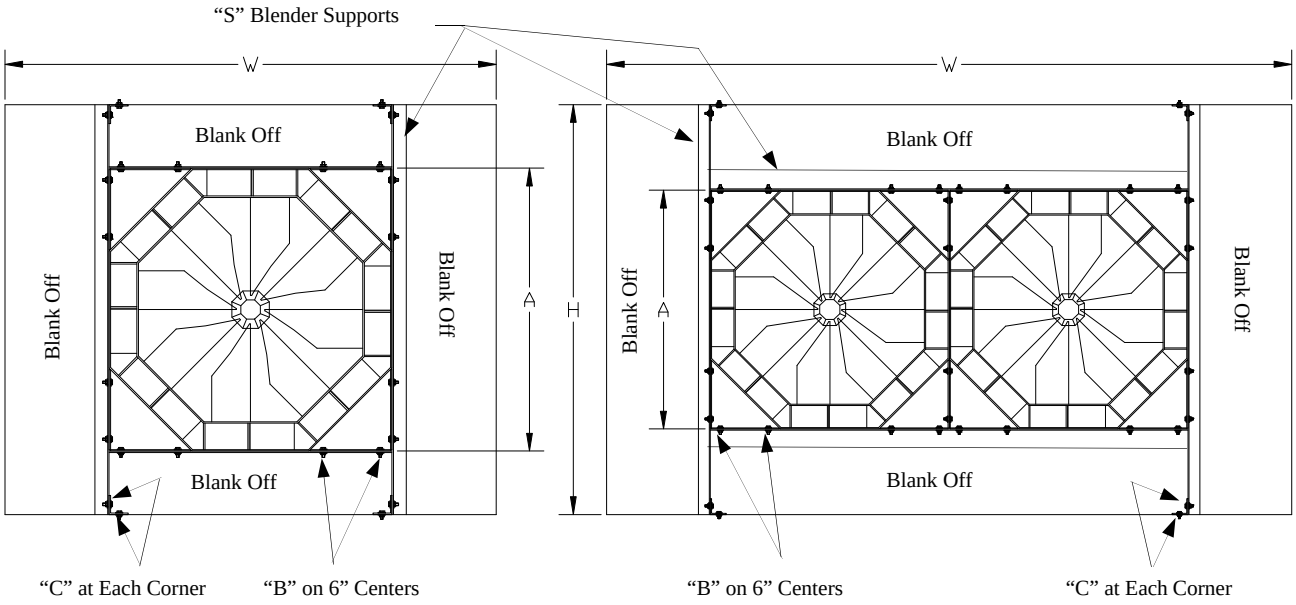
Installation & Operation for Series IV Air Blender®

Installation

The AIR BLENDER® static mixer should be mounted across the plenum with specified upstream and downstream clearances as shown on the construction drawings and per the manufacturers suggestions. Multiple units shall be mounted side by side with care taken that all mixing units receive equal proportions of Outdoor and Return Air. Units shall be mounted per figures 1 and 2 with blank-offs all around the mixing device forcing the air through the mixer. All supports and blankoff materials by others. The exception is the ABP model which includes blankoff materials.
Split units (size AB96 and larger) come in two or more pieces and should be assembled before mounting in the plenum. Fasteners are included.



Materials List

Air Blender Unit Size	Support "S"	Fasteners "B"	Anchors "C"
AB8-22	Blank-off panels with standing seams(18 gage)	#12 tek screws or ¼ -20 Bolts on 6" centers	Frame angle all around the plenum perimeter of
AB24-48	2 x 2 x 1/8 angle	#12 tek screws or ¼ -20 Bolts on 6" centers	3/8" -13 Hex Head Bolt, Nut and Lockwasher
AB52-72	2 x 2 x 3/16 angle	¼ -20 Bolts on 6" centers	1/2" -13 Hex Head Bolt, Nut and Lockwasher
AB78-90	2 x 2 x 1/4 angle	¼ -20 Bolts on 6" centers	1/2" -13 Hex Head Bolt, Nut and Lockwasher
AB96-102	3 x 3 x 1/4 angle	¼ -20 Bolts on 6" centers	5/8" -11 Hex Head Bolt, Nut and Lockwasher
AB108-132	4 x 4 x 1/4 angle	¼ -20 Bolts on 6" centers	3/4" -10 Hex Head Bolt, Nut and Lockwasher
AB144-168	5 x 5 x 5/16 angle	¼ -20 Bolts on 6" centers	3/4" -10 Hex Head Bolt, Nut and Lockwasher

Operation

The AIR BLENDER® static mixer is designed to mix stratified air streams to a more even temperature range and consistency for improved coil freeze protection, reduced sensor error, and improved outdoor air distribution to help meet IAQ requirements. The AIR BLENDER® unit will perform whenever the velocity through the unit is greater than 400FPM. The maximum temperature of the aluminum AIR BLENDER® mixing unit is 300°F.

Maintenance

The AIR BLENDER® static mixing device is constructed of .080 and .125" thk. aluminum and does not require any maintenance under standard HVAC operations.

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