Blender Products INC.

Knockdown Channel Blender

BENEFITS AND FEATURES:

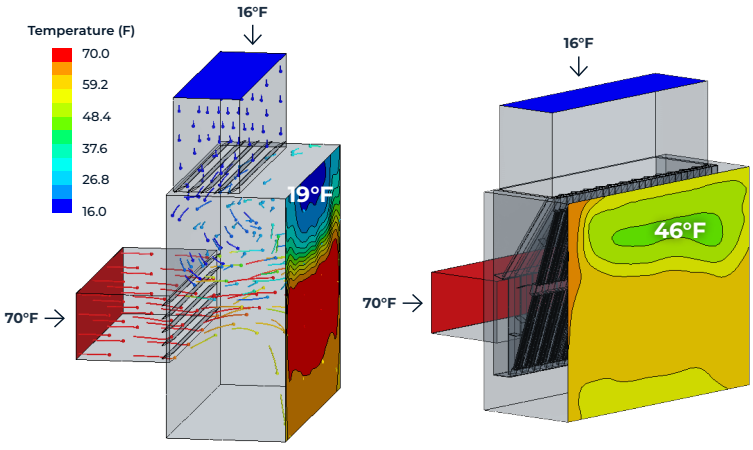
Customized for each air handling unit (AHU) application

Improve loading to all components (e.g., filters, coils)

Eliminate freeze stat alarms, nuisance trips, and frozen coils from problematic AHUs

Reduce AHU operating costs by extending economizing and improved chiller efficiency

Why is Mixing and Airflow Uniformity inside an AHU Important?

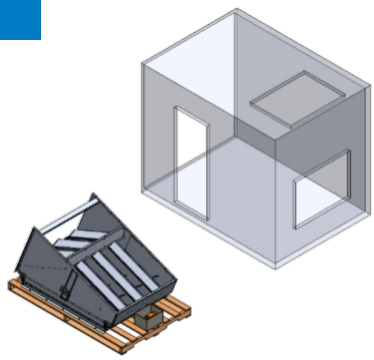


The Channel Blender fits inside a traditional mixing box and improves airflow uniformity inside the AHU.

- Standard mixing box designs fail to effectively mix the outside air (OA) and return air (RA) entering the AHU.
- No configuration of OA and RA dampers in traditional mixing boxes can provide effective mixing or properly address air stratification.
- Temperature and velocity stratification inside an AHU can lead to higher operating costs for facilities.
- Complete mixing of OA and RA is essential to proper coil operation and even loading to filter sections.
- The Channel Blender uses same control scheme as a regular mixing box and controls the % of OA and RA entering the AHU.

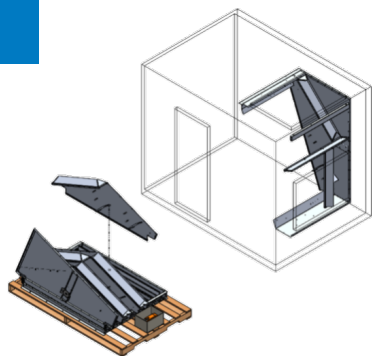
CHANNEL BLENDER KNOCKDOWN ASSEMBLY

1



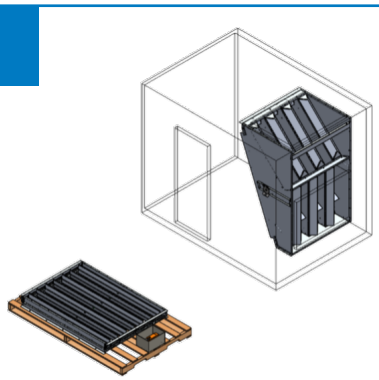
The Channel Blender Knockdown kit consists of various subassemblies that are designed to fit through the access door of a mixing box. Final assembly takes place inside the mixing box and can typically be completed by a third-party contractor in 4-6 hours. Two people (minimum) are suggested to build the Channel Blender Knockdown kit.

2



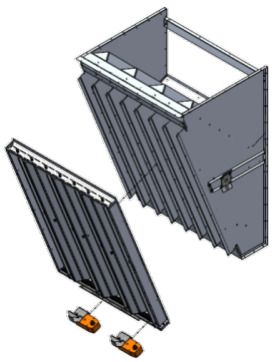
Detailed assembly instructions are provided for each Channel Blender knockdown kit. The instruction manual documents the order in which each individual subassembly is moved into the mixing box through the access door.

3



The installation sequence is determined by the job-specific product configuration. In general, the exterior walls and interior channels (referred to as “the body” of the Channel Blender) are assembled first, followed by the damper frame.

4



Following assembly of the body, the pre-assembled damper frame is installed to the Channel Blender. The damper actuators are connected to the linkage mechanism and calibrated to ensure a seal between the damper blade and the channel walls.