

# CORE INSTALLATION INSTRUCTIONS

## General Information

Cores are shipped separately from the cabinet.

**DO NOT LIFT the cabinet with the cores installed.**

After the unit sections have been assembled, leveled, and installed in the final location (such as on a housekeeping pad, sleeper, or roof-curb) the aluminum heat-recovery cores can be installed by hand.



## WARNING\*

Follow workplace safety procedures when handling and installing the energy recovery cores. Ensure the cores, drain-pan, and support-frames are aligned as noted below. Do not use excessive force when placing the cores in to their stacked arrangement, as it may cause the stack to shift unexpectedly. Failure to follow safe-work procedures and the guidelines listed below may result in serious injury or death

*Approximate maximum core weight:* 95 lbs. each

To ensure proper core performance, care must be taken not to drop or use excessive force when installing the cores. If the cores frames become distorted, their dimensions should be gently corrected before installation.

Cores must be installed through the service/inspection door on the side of the unit.

The PRC units may require cores of various sizes.

**Refer to the stacking diagrams** located on the core service/inspection doors for the proper stacking arrangement.

## Stacking Notes

1. Do not step or put excessive force on the sides or unsupported (center) portion of the drain-pan. Doing so will result in drain-pan damage.
2. Ensure all cores are **oriented as illustrated in Figure 1**.
3. Ensure the core-frames are aligned both vertically and horizontally, as indicated in Figure 2. **Failure to do-so may lead to further alignment issues as the stack-height grows**, which in-turn may lead to improper airflow through the cores, or worse, a dangerously unstable core-stack.

FIGURE 1 – CORE ORIENTATION (top-plates)\*

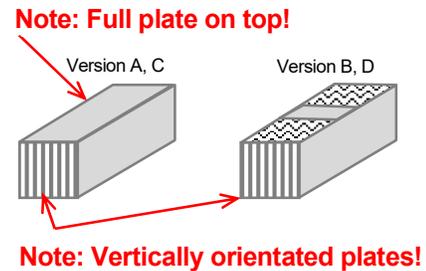
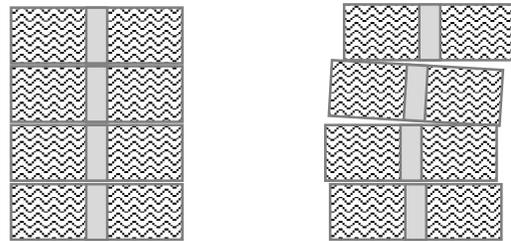


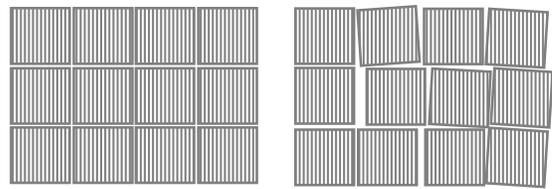
FIGURE 2 – STACKING ALIGNMENT EXAMPLES\*

### Top View\*

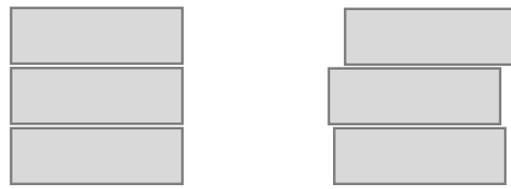
\*(may have full top-plate, partial top-plate version shown)



### End View



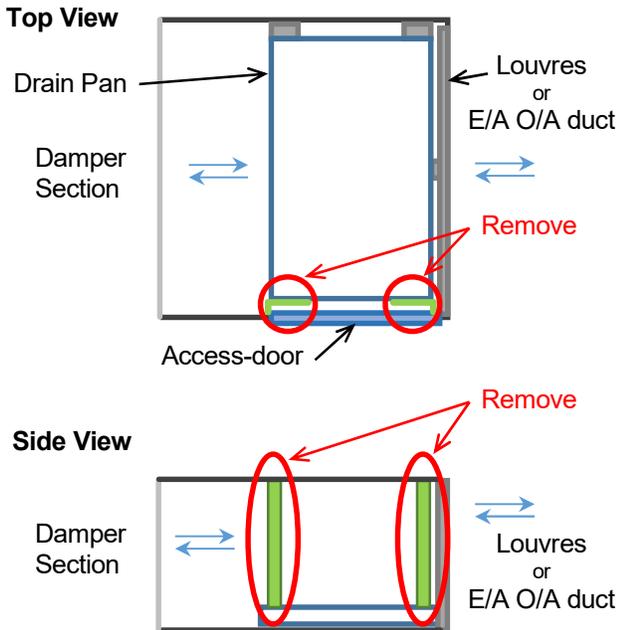
### Side View



## Core Installation Procedure

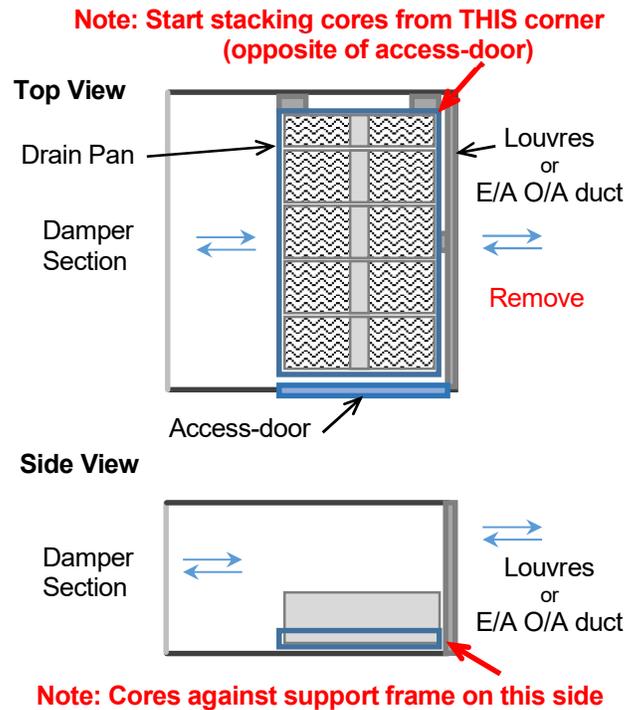
1. Temporarily remove side sealing brackets (they are to be reinstalled once the cores are aligned and stacked properly), as shown in Figure 3.

**FIGURE 3 – REMOVE SEALING BRACKETS ▼**



2. Ensure the drain-pan is clean and free of debris.
3. Gently place one row of cores on the drain-pan
  - a. Refer to the stacking-diagram in the manual and/or on the service/inspection door in each core-section for the core stacking arrangement. Each core is labeled accordingly.
  - b. Ensure the core ends are squarely against the core support frame opposite the access door and on louvre/outdoor-air side of the drain-pan, as indicated in Figure 4.

**FIGURE 4 – CORE STACKING IN UNIT ▼**



4. Once a full row has been placed, ensure all cores are stacked squarely (with frames aligned as illustrated in Figure 2), with no gaps between the cores greater than 1/8".
5. Repeat steps 3 to 4 as indicated on the core-stacking diagrams.
6. Once the top row of cores are in place, replace the side sealing brackets, as shown in Figure 3.