How We Reduced:
First and Last Costs

CHALLENGE

There are several costs that add up before a unit is operational:

- **Purchase Price**: The upfront cost a customer must pay to acquire one of our units
- **Building Design Costs**: Development costs for the physical structure supporting the unit – whether the application is a new build or a retrofit project, costs can fluctuate depending on the unit's weight and dimensions
- **Installation Costs**: Can reflect equipment, personnel and other resources necessary to complete the task. For most customers, the more complex the unit is to install and remove, the more it will cost.

At the end of the unit's life, it will usually need to be replaced by a new product. Removal will be the last cost associated with the unit.

SOLUTIONS

Lightweight Thermoshield Cabinet Reduces Structural Support Requirements and Installation Costs

The weight of the unit affects the costs of both design and installation/removal. Specifically, heavier units may require more structural bracing within the building and larger equipment to lift it on and off a rooftop during installation or removal. The lighter weight also reduces fuel surcharges when shipping the product.

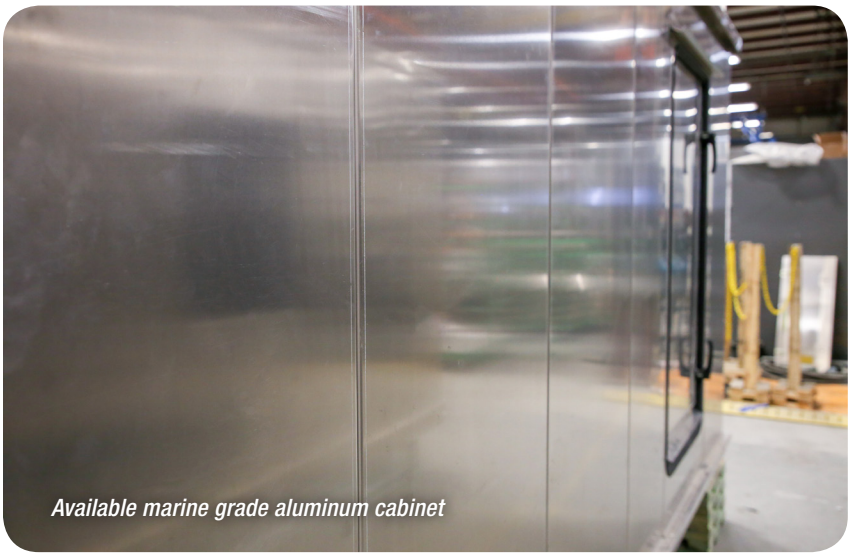
The DX system is available with our patented Thermoshield cabinet. The cabinet achieves its extremely light weight by being constructed with:

- Marine-grade aluminum panels
- Hydrophobic stone-wool insulation
- Advanced joining methods that reduce hardware
- Integral aluminum base

The Thermoshield cabinet is designed and manufactured to provide a premium product while maintaining a highly competitive purchase price.

Lightweight Thermoshield cabinet installation

Packaged DX model with Thermoshield cabinet



Available marine grade aluminum cabinet

Designed for Reduced Installation Labor

To reduce installation labor, most outdoor units can be shipped from the factory with a completed refrigeration system. Our unique design allows for the system to be delivered with a full refrigerant charge, eliminating the need for, and risks associated with additional field refrigerant piping and charging.

For larger units that require splits, field wiring is required between the divided sections.

Traditionally, wires are left loose and installed from one point to another following electrical drawings and diagrams in junction boxes. This method can lead to wiring errors which may damage components and will take time to troubleshoot and diagnose.

Our split DX units come with electrical connections fitted with plugs and sockets for quick, hassle-free and error-free installation.

The available Thermoshield cabinet is designed to further simplify and reduce unit installation time when mounting to curbs and aligning split sections.

A Cabinet Designed for Sustainability

In addition to being designed to last the life of the building, the available Thermoshield cabinet was conceptualized to be sustainable, both when built and eventually retired. The Thermoshield cabinet is manufactured with unpainted aluminum, which can contain recycled material and is recyclable. It is insulated with stone-wool, which is a recycled material in addition to its premium thermal and physical properties.

The high degree of recycled and recyclable content can benefit projects undergoing LEED certification by improving the overall content of recycled material within the building.