

Introduction

Many older natatoriums with indoor mechanical rooms did not take into consideration that the dehumidification system would need to be replaced during the life of the facility. The removal of the failed system is the easiest part of the retrofit project while moving the new dehumidifier into the mechanical room can be quite challenging. Desert Aire offers a solution to this problem through the sectioning of our SA Series dehumidifiers.

Design

Desert Aire works with the customer to determine the maximum size and weight of the largest section that can be moved into the mechanical room. This information is used by Desert Aire engineering to create a sectioned SA Series unit that meets the performance needs of the natatorium while taking into consideration the logistical problems caused by mechanical room access.

Key features of Desert Aire Sectioned Units:

- Refrigeration Valves provided when sectioning of refrigeration circuits is required
- Wiring harnesses with labeled leads and terminal strips to distribute power through the unit
- Flanged edges and gaskets for sealing sections



Figure 1a - Refrigeration Section #1

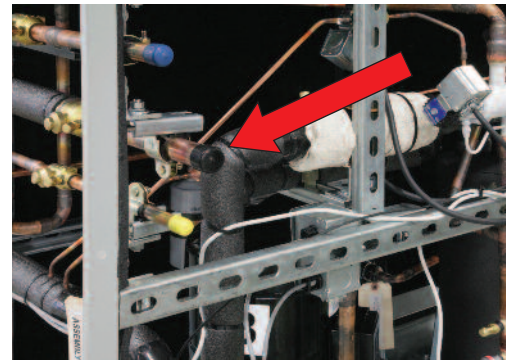


Figure 2 - Refrigeration isolation



Figure 1b - Refrigeration Section #2



Figure 3 - Blower Section

Contract Document

Desert Aire utilizes a contract document to define the design requirements of each job and to define what will be the required action of the contractor once the segments are delivered to the jobsite.

Procedure

- Size and select dehumidifier using existing tools. Performance of the SA unit is not affected by the sectioning of the cabinet.
- Establish maximum dimension and weight of largest section that can be transported into the mechanical room.
- Submit request for sectioned unit evaluation to Desert Aire.

Desert Aire will provide the following:

- A design summary with approximate number of sections, their size and weights
- A formal price quote for the sectioning of the unit
- Detail drawings to be provided after purchase order. This “as built” drawing will include dimensions, weights, wiring harness detail, refrigeration valve details, wiring diagrams, and points list.
- Reassembly instructions will be provided with the delivery of the unit.
- Factory assisted start-up after installation



Notes:

- 18-30 ton units cannot have a sectioned outdoor air box.
- 30 to 60 ton units with sectioned outdoor air box only available on specific request.

Figure 4 - Ready for Shipment



Figure 5 - Assembled After Installation

OPTIMIZING SOLUTIONS THROUGH SUPERIOR DEHUMIDIFICATION TECHNOLOGY

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