



MarCraft Custom Air Handling Application Guide

arizonTM COMPANIES

MarCraft custom units can be designed to meet any project's unique needs, providing the following:

1. Flexible Layouts and Capacities
2. High quality
3. Long Life
4. Reliability
5. Efficient Operation

While the initial capital cost may be higher vs. commercial grade units, custom systems can pay for themselves because they are designed to last longer, require less maintenance and often are much easier to maintain, can be designed with operating efficiency in mind, and can free up more usable floor space in the building if designed properly.

MarCraft units can incorporate other devices or features, which are not available in more commercial grade equipment. Features such as energy recovery, high particulate filtration, stacked units, special footprints, and materials of construction are all items which can be considered.

Before you start your next project, design study, or design build project, contact Arizon Companies for information and application assistance. One call to Arizon Companies and you will see how "The Total SOLUTION™" can work for you.

A few examples of the systems available from Arizon Companies:

Straight Air Tunnel – The straight air tunnel unit makes up a large portion of the custom market.

Straight Air Tunnel units are similar to other type of air handlers; however, these units offer:

- Higher Static Pressure Capability
- Reduced Noise
- Flexibility of Components and Component Locations
- Footprint Flexibility (in both size and shape)
- Long Life

Units typically have an economizer or mixing box, filters, coils, humidifiers, fan, etc. This system can also be ordered with a full package for single point power connection and lighting circuit, coil piping and valving, full DX refrigeration system, temperature controls, and factory performance testing.

Desiccant Dehumidifiers – The desiccant dehumidifier unit is similar to the straight air tunnel unit with the exception that there is an integral desiccant dehumidification wheel with a reactivation system.

Desiccant Dehumidifier units are commonly use for:

- High-humidity School Environments
- Ice Rinks
- Certain Manufacturing Operations
- Library Storage Facilities (where excess humidity cannot be tolerated)

Custom Package Penthouse – The package penthouse unit can be manufactured with nearly any type of component in a finely constructed box. Typically these style units contain an air handler, as well as DX condensing units (air cooled or evaporative cooled), or water chiller and pump loop system, hot water boilers and pumps, steam generation and humidification, electrical distribution system and controls. One typical installation is on a 4 to 5-story Class A office building.

Custom Mechanical Rooms – Custom manufactured chillers, boiler packages – and pump/piping rooms are completely factory-tested and built to your exact needs.

Custom Air Rotation® Systems – These ductless units are custom designed to include stainless steel construction, sound levels below 60 decibels, low temperature cooling to 40°F, low or high relative humidity applications between 20 and 80%, and many other industry-specific applications required in the plastics, printing, bakery, food, automobile, textile, computer, semiconductor, pharmaceutical, and other product environments.