

About Us



Made In USA

**Engineering and Manufacturing Specialty HVAC Equipment
since 1971**

4500 Industrial Access Road Douglasville, GA ; P 770-489-0716 www.seasons4.net





- **Two adjacent manufacturing facilities.**
- **Over 200,000 square feet of floor space**

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150 to 200 dedicated employees

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Employee owned company

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Custom packaged DX

Seasons-4 has been manufacturing custom packaged DX systems for over 40 years.

Every project is designed and build to the specific building requirements, with capabilities to provide conditions as low as 39 degree F dew point., without the use of Desiccant Dehumidification Wheels.

Every unit is tested and delivered to the jobsite.

Seasons-4 provides onsite date not ship dates.



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Compressors

Seasons-4 offers variety of different types of compressors, to fit every application and design requirements.

Capacities ranging from 5 tons up to 600 tons or higher.

Independent or tandem circuits with the industry most common refrigerants.

R-410a, R-134a, and R-407c

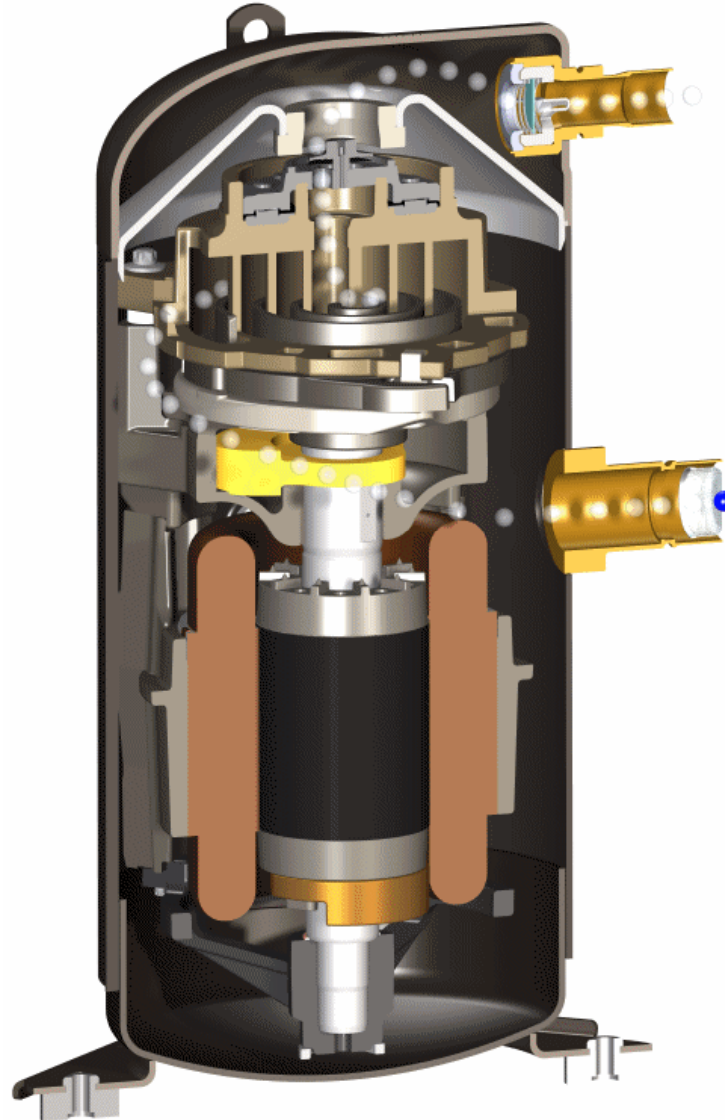
Seasons-4 offers Scroll Compressors



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Copeland Scroll Compressor



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Copeland Scroll™ Digital Technology



- 10-100% Capacity Modulation
- Effective Way To Achieve Infinite Capacity Modulation
- Available in 4 to 15 HP Models



- Compressor Controller monitors the cooling demand by modulating the solenoid valve
- Diagnostics-7 codes indicating faults
- Protection against excessive discharge temperature, low flow conditions and operation under fault conditions.

Variable speed scroll compressors.



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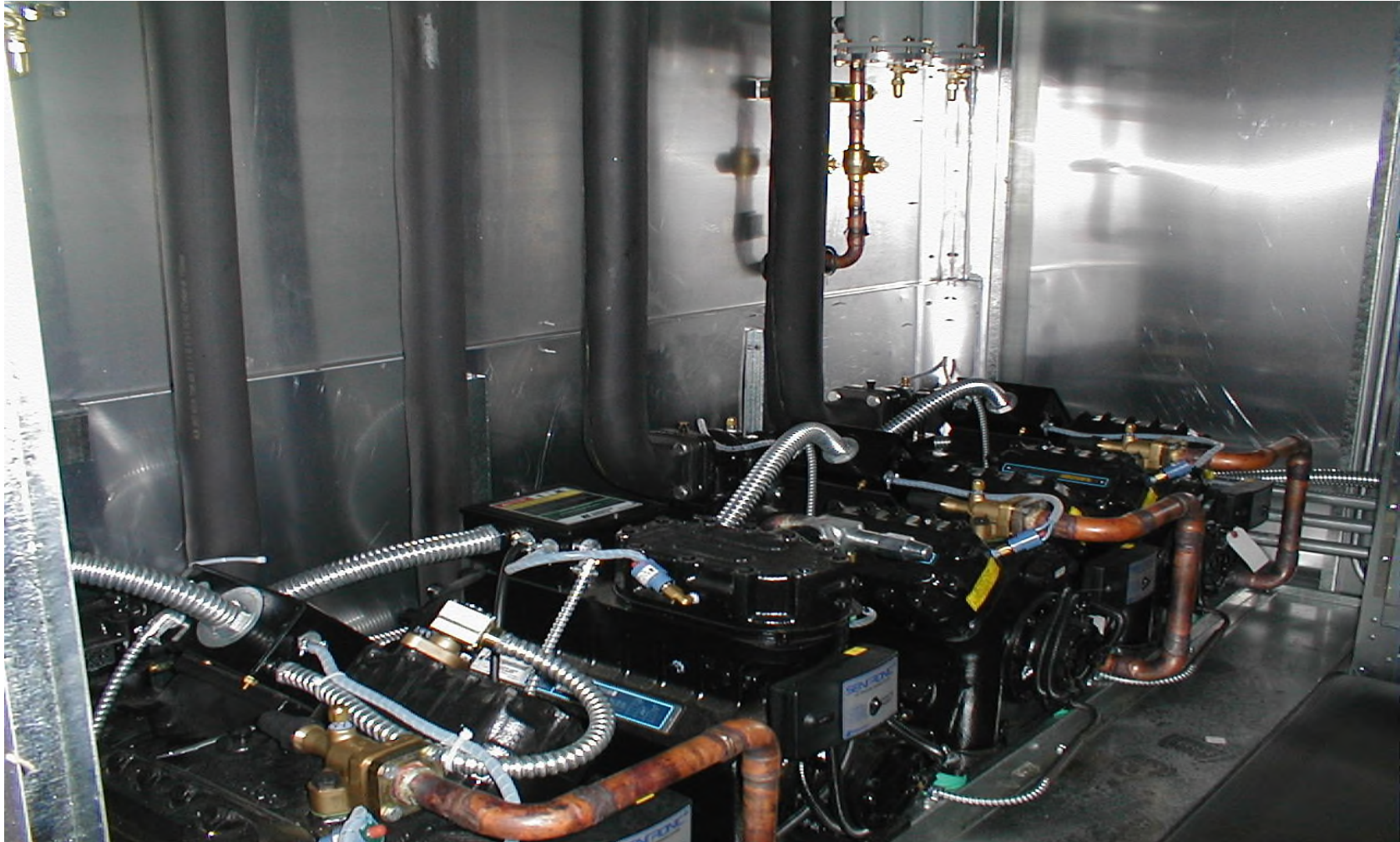
Scroll compressors available Refrigerants



R-410a R-134a R-407c

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Copeland semi-hermetic reciprocating compressors



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Copeland semi-hermetic reciprocating compressors available refrigerants



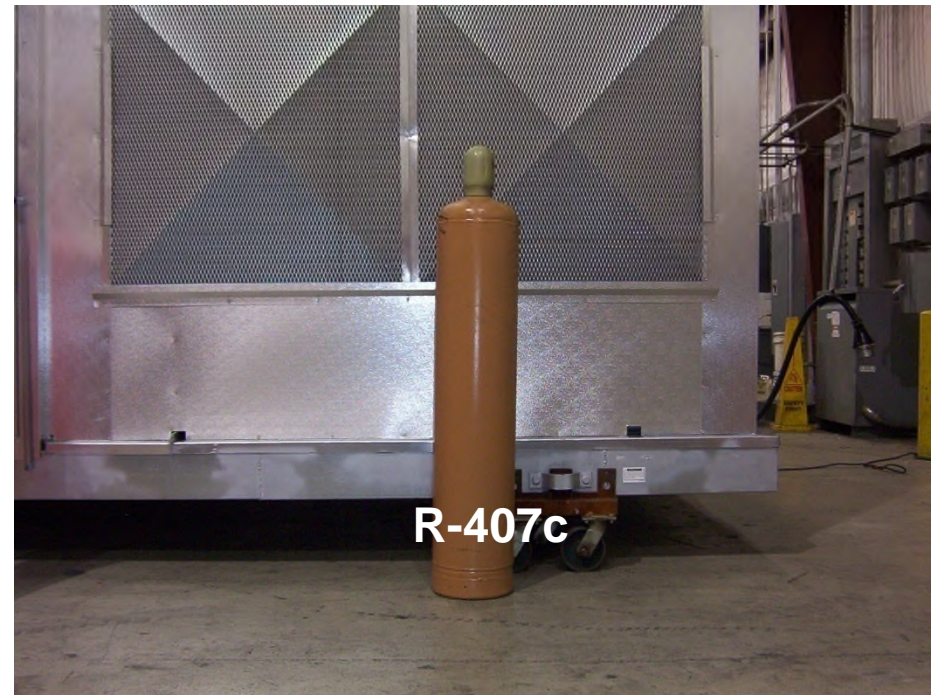
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Hermetic screw compressors.



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Screw compressors available refrigerants



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Condensing Sections

Seasons-4 offers air-cooled, evaporative cooled, shell and Tube and plate type condensing section.

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Air Cooled Condensing Sections



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Air Cooled Condensing Sections with expanded aluminum guards



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550 tons of air cooled condensing unit



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Air Cooled Condensing Sections with sound attenuators & louvers



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Evaporative-Cooled Condensing Sections



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Water-Cooled w/Shell & Tube Condensers



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Water-Cooled w/Plate-type Condensers



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Condenser fans with Electronically Commutated (EC) motors and quiet and efficient axial fans



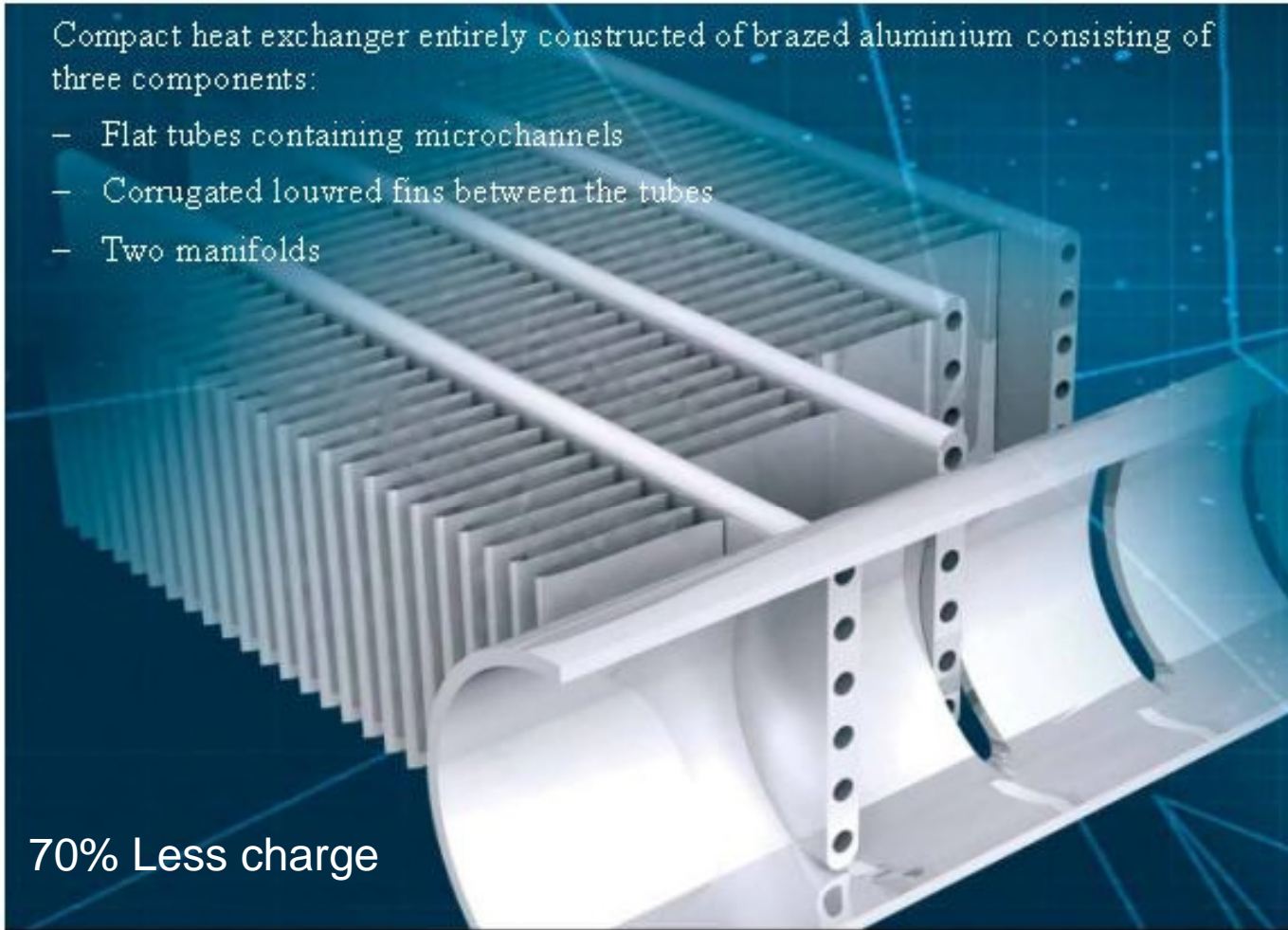
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Microchannel Heat Exchanger

Compact heat exchanger entirely constructed of brazed aluminium consisting of three components:

- Flat tubes containing microchannels
- Corrugated louvred fins between the tubes
- Two manifolds

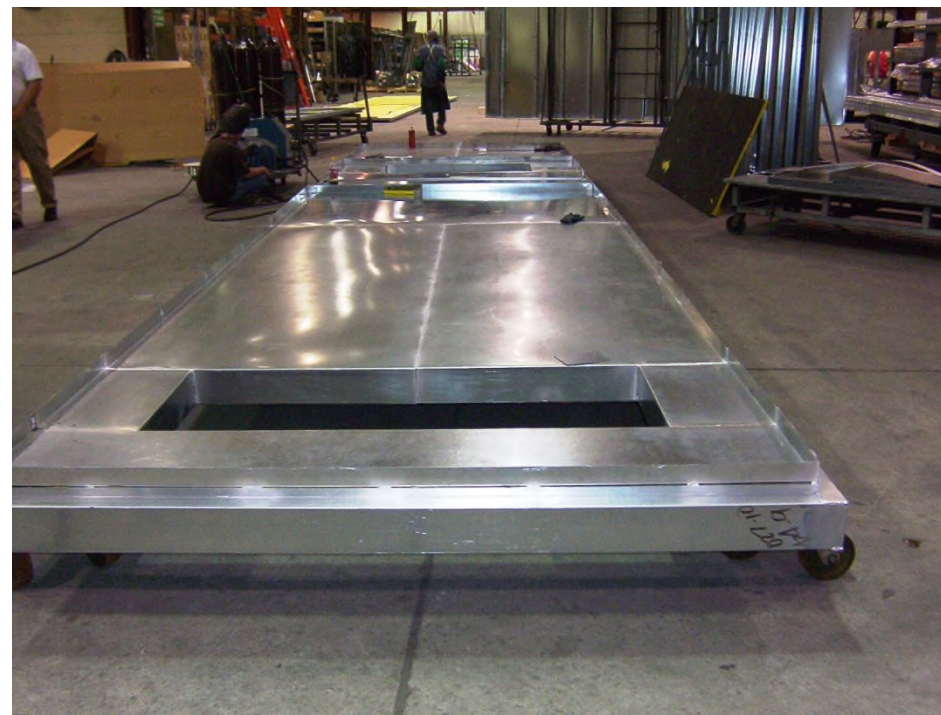
70% Less charge



Base Frame

Seasons-4 offers different types of base constructions for different applications.

- 1- Welded formed galvanized steel with fully welded structural cross rails
- 2- Welded extruded aluminum frame.
- 3- Structural steel base frame.



Welded formed galvanized steel base

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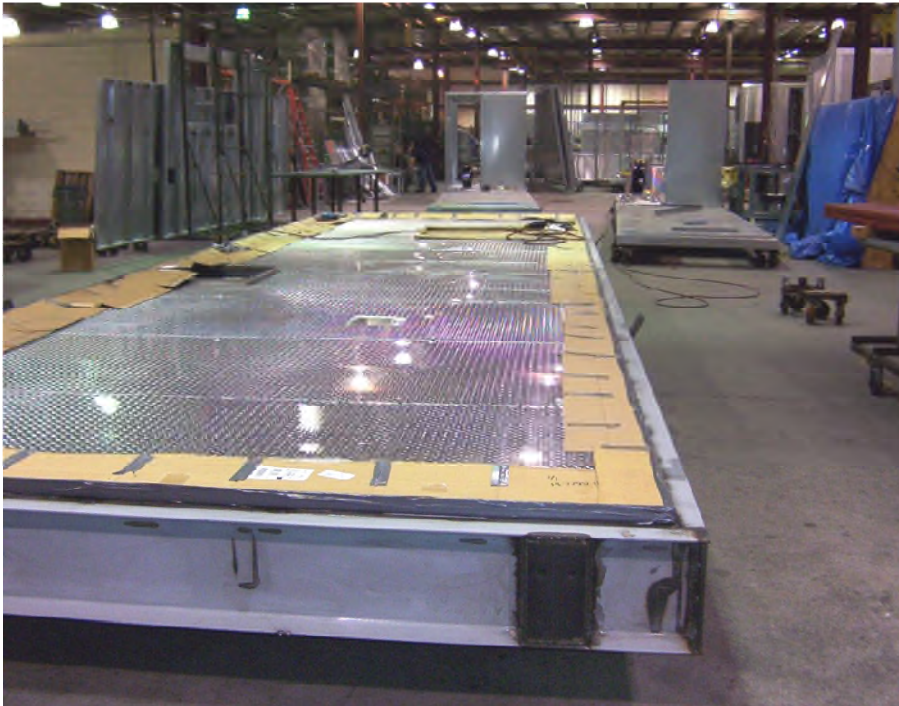
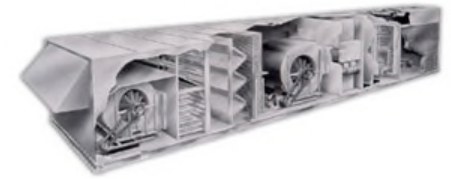




Welded extruded aluminum base

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12 inch welded structural steel base

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Insulations

Seasons-4 offers fiber glass or foam insulations.

The panels are insulated with 2, 3 or 4 inches of fiber glass or injected with 2,3 or 4 inches of polyurethane foam insulation.

The base of the unit will be insulated with 1” 3lb. and 4” batt type insulation or sprayed with up to 6” inches of polyurethane foam insulation.

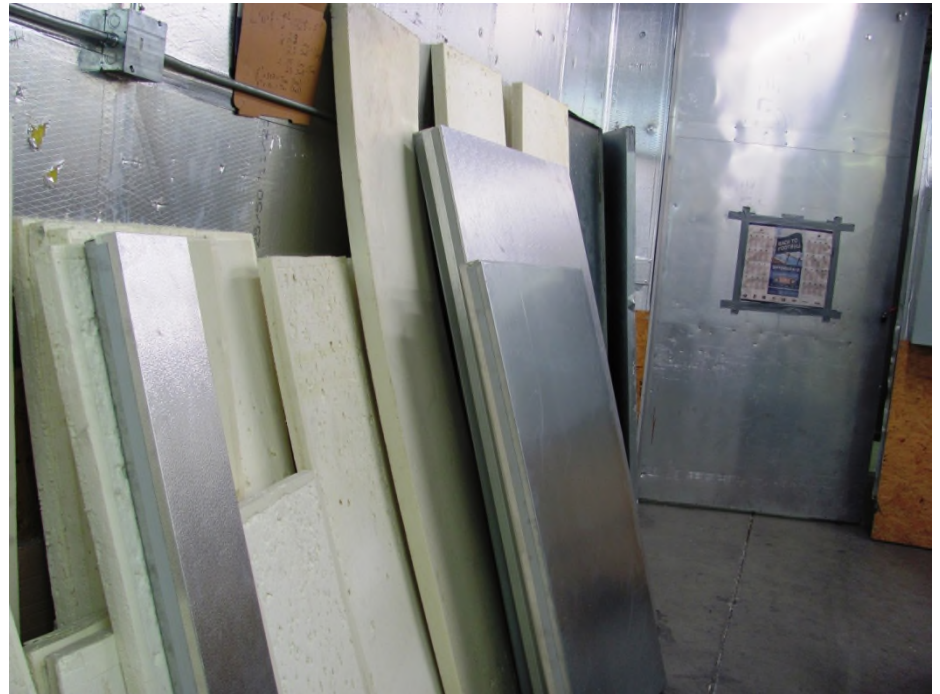
Insulation

Fiberglass



R-value 4.3 per inch

Foam



R-value 6.7 per inch



2", 3" and 4" foam injected panels

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1" 3lb. and 4" batt type insulation or sprayed with up to 6" inches of polyurethane foam insulation.

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Direct Replacements

Direct replacement systems are a Seasons-4 specialty. We can custom-engineer an HVAC system for almost any need. Typically, we are called upon to find ways to upgrade old systems to provide better performance and efficiency.

- The installing contractors liability is minimized
- The old unit is completely measured by a Seasons-4 engineer
- Seasons-4 guarantees the unit to fit the curb and the duct connections
- The unit will arrive on-site at the time you choose
- The pre-charged and tested unit is ready for immediate installation and operation
- A Seasons-4 technician will be on-site to assist in the rigging procedure
- The installation for one unit should not exceed 8 hours
- The unit can interface with the most control systems
- Weekend installations will minimize building downtime

Leader in Direct Replacement of Multi-zone or Single zone units



Existing Lennox unit



Seasons-4 Direct Replacement

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Existing York unit



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Leader in Direct Replacement of Multi-zone or Single zone units



Carrier Single zone unit



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Leader in Direct Replacement of Multi-zone or Single zone units



**McQuay Single zone unit
with curb adaptor**



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Leader in Direct Replacement of Multi-zone or Single zone units



Existing roof built unit

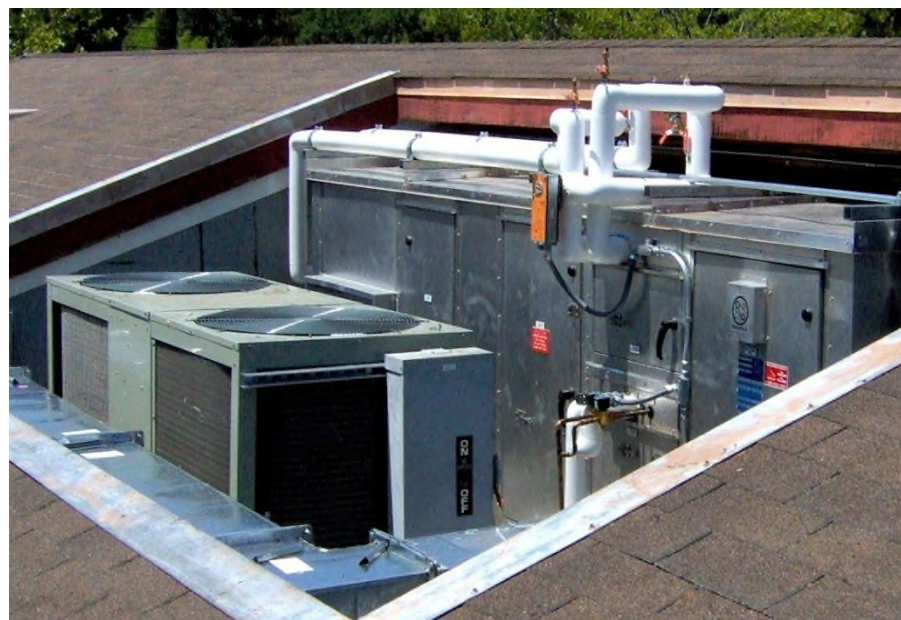


Seasons-4 Direct Replacement

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Leader in Direct Replacement of Multi-zone or Single zone units



We can help you replace a “roof-made” unit with a custom designed, factory manufactured and tested Seasons-4 unit.

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Leader in Direct Replacement of Multi-zone or Single zone units



We can help you replace a “man-made” unit with a custom designed, factory manufactured and tested Seasons-4 unit.

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Leader in Direct Replacement of Multi-zone or Single zone units

1



2

3



Precise engineering, job site delivery, rigging assistance and supervision of start up are provided by Seasons-4.

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Leader in Direct Replacement of Multi-zone or Single zone units



Existing unit



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Leader in Direct Replacement of Multi-zone or Single zone units



A Custom replacement unit is positioned carefully into place, saving the owner money and the contractor valuable time.

SEASONS-4's Custom HVAC Unit Engineering and Manufacturing help customers get their job done on time.

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Desiccant Systems

Desiccant HVAC systems use a desiccant material such as silica gel on a rotational wheel structure to provide extra humidity control. This reduces energy requirements and eliminates condensation, mold, and rust by removing moisture outside the cooled space.

Our Desiccant Systems offer:

- 4,000-50,000 CFM
- 30"-86" Wheel Diameter (in)
- 79-642 Desiccant Dehumidification Capacity Moisture Removal (lb/hr)
- 10-115 Sensible Cooling Capacity (tons)
- Factory wired, piped, assembled & tested
- Rooftop or Split System
- Auxiliary heat section is specifically designed for your location's requirements
- Low velocity pleated, long-lasting air filters
- Backward inclined airfoil blade blowers for high efficiency operation
- Premium efficiency 4-pole motors (exceeds EPAC requirements)
- Single point power connection for easy installation
- Spacious cabinet design with full height access doors, with single handle, multiple point latches, for easy access and maintenance
- Oversized condenser coils designed for higher efficiency and energy savings
- Factory mounted 24-volt controls are compatible to the computer hardware of your choice. Your control system matches your specifications exactly.

Energy Recovery Systems

Energy recovery is another approach to humidity control that uses energy from one source to provide energy for other work in the same system. The result is a remarkably efficient system. Like all Seasons-4 systems, it offers:

- Auxiliary heat section is specifically designed for your location's requirements
- Low velocity pleated, long-lasting air filters
- Backward inclined airfoil blade blowers for high-efficiency operation
- Premium efficiency 4-pole motors (exceeds EPAC requirements)
- Single point power connection for easy installation
- Spacious cabinet design with full height access doors, with single handle, multiple point latches, for easy access and maintenance
- Oversized condenser coils designed for higher efficiency and energy savings
- Factory mounted 24-volt controls are compatible to the computer hardware of your choice. Your control system matches your specifications exactly.

Dual Path

Seasons-4 manufactures the Dual Path System to provide the designer with a high efficiency humidity control machine. This system uses multiple compressors staged to provide the dehumidification requirements. The system concept is to reduce the moisture introduced in the outdoor air to the lowest possible level. Because the outdoor conditions vary greatly throughout the day, the multiple compressors used are better able to meet this load variance efficiently. The outdoor air in a Dual Path System many times will account for 50-75% of the total load requirement. This type is very effective in supermarkets that use multi-deck open frozen food display cases. Case credits for this type of case are higher than other types and will provide most of the space sensible load. Units are furnished with return air cooling coils in order to make up any load requirements that the outside air coils do not.

Dual Path units include the following features:

- Multiple compressors for efficient load matching and low electric demand
- Independent high efficiency outdoor air pre-cool circuit eliminates “sensible load” cooling burden from dehumidification coils
- Minimum two-stage outdoor air dehumidification circuit for dedicated moisture removal
- Independent return air circuit parallel to outdoor air circuit treats sensible load requirements of space, giving your system built-in flexibility
- Motorized outdoor air with cost-efficient night-bypass damper
- Manual balance dampers in outdoor and return air plenum for easy, fast fine tuning
- Re-heat coils use waste heat derived from refrigeration system to offset requirements for comfort zone heating
- Auxiliary heat section is specifically designed for your location’s requirements
- Low velocity pleated, long-lasting air filters
- Backward inclined airfoil blade blowers for high-efficiency operation

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Dual Path cont.

- Premium efficiency 4-pole motors (exceeds EPAC requirements)
- Single point power connection for easy installation
- Spacious cabinet design with full height access doors, with single handle, multiple point latches, for easy access and maintenance
- Oversized condenser coils designed for higher efficiency and energy savings
- Factory mounted 24-volt controls are compatible to the computer hardware of your choice. Your control system matches your specifications exactly.

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Multi-Zone

Today's buildings often have different heating and cooling needs for different areas. Loads for specialized rooms such as computer operations (or even school cafeterias) can be dramatically different than the rest of the facility, and require additional system capacity to provide comfort, humidity control, and proper ventilation.

Seasons-4 manufactures multi-zone systems designed to accommodate specialized area needs while still providing maximum system efficiency.

Multi-zone systems from Seasons-4 offer:

- Multiple compressors for efficient load matching and low electric demand

- Manual balance dampers in outdoor and return air plenum for easy, fast fine tuning

- Reheat coils use waste heat derived from your refrigeration system to offset requirements for comfort zone heating

- Auxiliary heat section is specifically designed for your location's requirements

- Low velocity pleated, long-lasting air filters

- Backward inclined airfoil blade blowers for high-efficiency operation

- Premium efficiency 4-pole motors

- Single point power connection for easy installation

- Spacious cabinet design with full height access doors, with single handle, multiple point latches, for easy access and maintenance

- Oversized condenser coils designed for higher efficiency and energy savings

- Factory mounted 24-volt controls are compatible to the computer hardware of your choice. Your control system matches your specifications exactly.

Single Path

Maintaining low moisture levels in a supermarket lowers refrigeration operating costs thus reducing total store energy costs.

To provide the designer with a very simple solution to this problem, Seasons-4 builds a Single-Path unit with a sized evaporator air bypass. The unit design is such that bypass placement and multiple compressors with independent evaporator control provides the store designer with good dehumidifying capability and allows the unit to operate at up to 1000 cfm/ton ratios. Conventional control strategies may be used with a simple dehumidification override for store control.

Single Path Unit features:

- Auxiliary heat section is specifically designed for your location's requirements

- Low velocity pleated, long-lasting air filters

- Backward inclined airfoil blade blowers for high-efficiency operation

- Premium efficiency 4-pole motors (exceeds EPAC requirements)

- Single point power connection for easy installation

- Spacious cabinet design with full height access doors, with single handle, multiple point latches, for easy access and maintenance

- Oversized condenser coils designed for higher efficiency and energy savings

- Factory mounted 24-volt controls are compatible to the computer hardware of your choice. Your control system matches your specifications exactly.



Supermarket HVAC Systems

A supermarket requires environmental control for two basic reasons, human comfort and to provide an environment for efficient operation of the refrigerated display cases. Seasons•4 is a specialist in optimizing HVAC systems for both these functions, dramatically reducing energy costs and improving the store environment.