

# CoolSpot

- Ceiling Grid Self-Contained Air Conditioning Systems
- 1 - 3 Tons Cooling Capacity
- Air-Cooled, Water-Cooled, Heat Pump and Chilled Water



*United*  
**CoolAir** Corp™

[www.unitedcoolair.com](http://www.unitedcoolair.com)

# Designed Specifically for Spot Cooling Applications

Cooling requirements change with space alterations and modifications in room usage. The CoolSpot is the perfect solution when localized cooling is required to meet these new conditions.

The CoolSpot eliminates the need for costly central air conditioning changes, bulky floor systems and unsightly window or wall units. The CoolSpot fits easily above the drop ceiling, replacing a tile panel, and provides even air distribution through adjustable louvers. Conventional ducted air conditioning units converted for spot cooling sacrifice efficiency or size to reach the CoolSpot's capabilities.



The CoolSpot is capable of precision cooling in areas having copiers, PC's, electronics or other heat-producing products.



## Where do you find CoolSpot Air Conditioners?

You'll find them wherever there is limited space and specialized cooling requirements:

- Windowless offices that need bump-up cooling.
- Large office perimeters with localized air flow problems.
- Computer or data-entry areas where sensible cooling is mandatory.
- Telephone switch rooms, LAN rooms or other small rooms with a high sensible heat load.
- Quality control areas or small clean rooms where temperature/humidity control is critical and there is no floor space available.
- Interior space that requires cooling during the heating season.
- In fact, any location where cooling is critical and appearance is important.

## Technical Data

Tons	EAT	Air-Cooled		Water-Cooled		Chilled Water	
		Total	Sensible	Total	Sensible	Total	Sensible
1	80/67	15,100	10,700	15,700	11,200	14,060	9,220
	75/62	14,200	10,200	14,900	10,700	10,270	8,230
1-1/2	80/67	20,700	13,500	21,500	14,100	19,260	12,660
	75/62	19,200	13,350	20,000	13,800	14,080	11,335
2	80/67	25,950	20,400	27,100	21,600	24,100	15,740
	75/62	24,900	19,200	26,100	20,200	17,470	14,100
2-1/2	80/67	33,200	24,750	34,700	26,200	35,740	23,650
	75/62	31,600	23,200	33,100	24,250	26,100	21,100
3	80/67	38,900	28,300	40,100	29,700	41,100	27,300
	75/62	37,200	27,150	38,300	28,500	30,000	24,420

## More Features for Better Operation



- Direct-drive, 2-speed evaporator blower.
- The CoolSpot is designed for quick installation and comes with a condensate pump and vibration isolators as standard equipment.
- The condenser blower on the air-cooled model is belt-driven to allow for 0.1" - 1.0" of ESP for field duct work. (Drive/motor upgrade may be required)
- A remote air-cooled condenser or condensing section is also available.
- The integral supply and return grill has an attractive white aluminum finish with adjustable louvers for even air distribution.
- The compact CoolSpot is easy to install and ships from the factory properly charged and run tested.
- All internal components are located for easy access through removable side panels, and routine maintenance is accomplished by removing adjacent ceiling tiles.
- Reciprocating compressor is standard.
- Water/glycol cooled units include a 2-way 150 psi water regulating valve. Other available valves include:
  - 3-way, 150 psi
  - 2-way, 350 psi
  - 3-way, 350 psi(Some valves must be mounted on exterior of cabinet)
- Other options include electric heat, steam humidification and hot gas bypass.
- Units available with chilled water coil.
- Adjustable expansion valve with external equalizer, sight glass and filter drier.
- Stainless steel drain pan with overflow switch.

## Partial List of Options

### **Controllers**

- MP Microprocessor
- Marvel, Full-Featured Microprocessor
- Mini-Marvel, Temperature and Humidity
- Electro-Mechanical Thermostat

### **Electric Heat**

### **Hot Gas Bypass**

### **Coated Coils**

### **Disconnect Switch**

### **Low-Ambient Operation**

### **Electronic Steam Humidifier**

### **Heat Pump Configuration**

(Must use remote condensing section)

### **Voltage:**

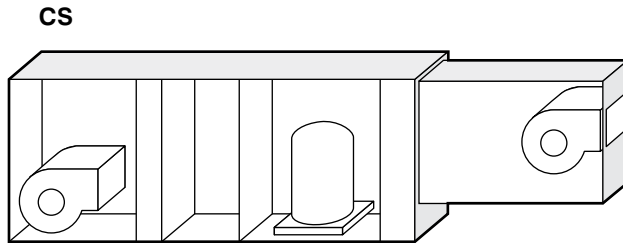
- Single Phase: 208, 230, 277
- Three Phase: 208, 230, 460

### **Limited Warranty**

- One (1) year parts and five (5) years on compressor

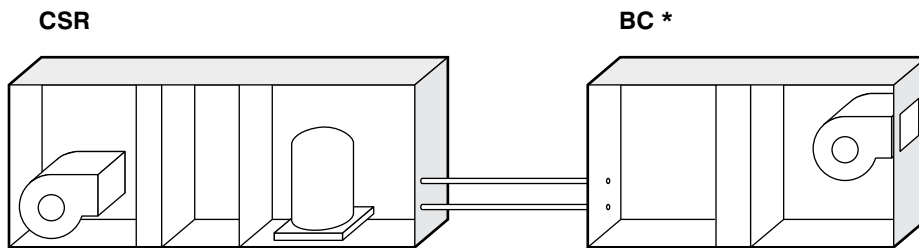
# CoolSpot Ductless: Configurations

Self Contained

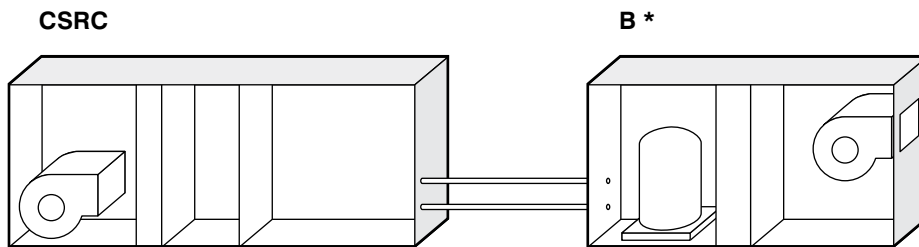


- Air-Cooled (CS) Shown
- Water-Cooled (CSW) Available
- Chilled Water (CCW) Available

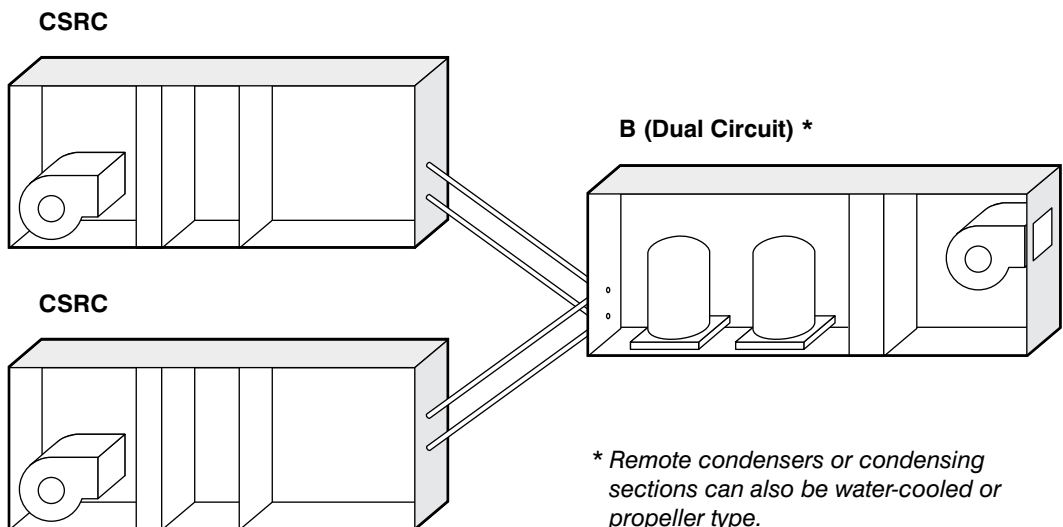
Remote Condenser Section



Remote Condensing Section



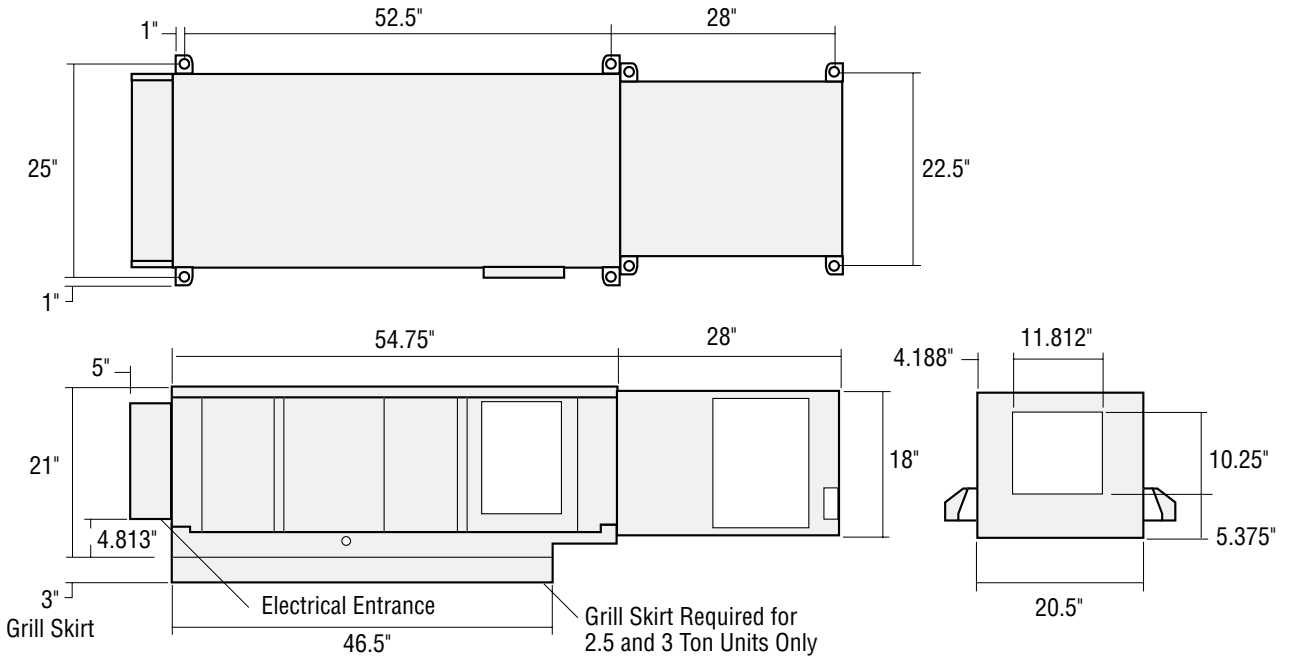
Multiple Evaporators with Single Remote Condensing Section



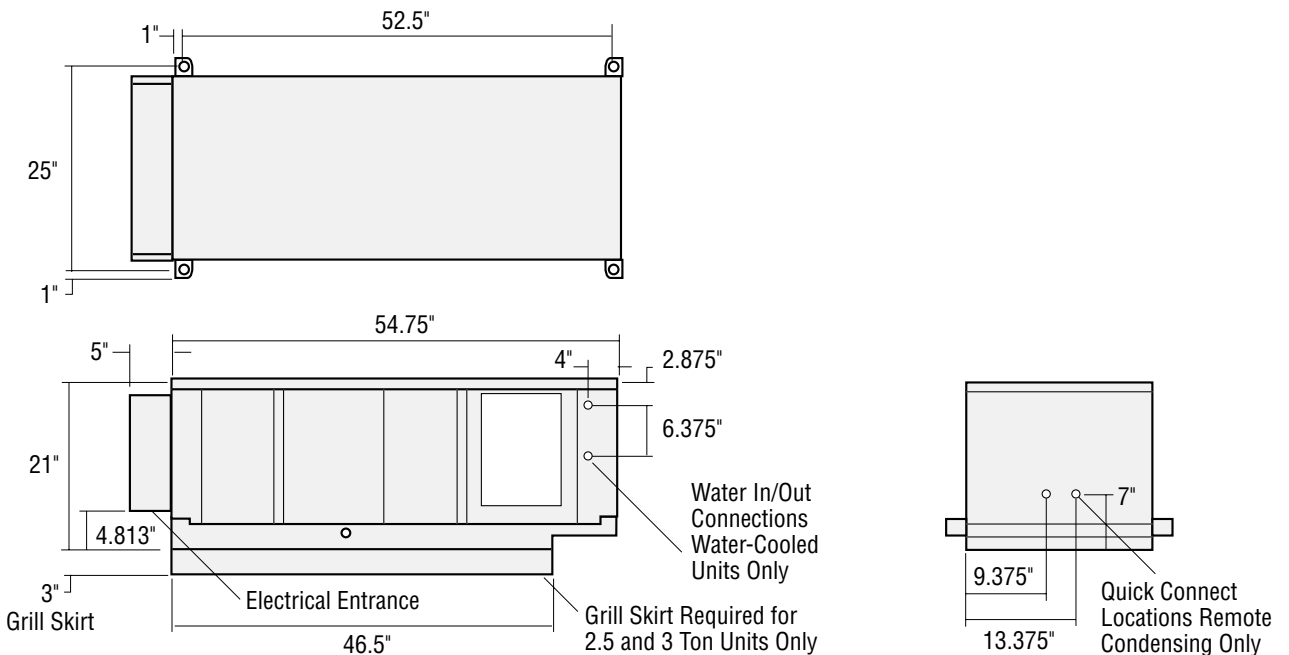
\* Remote condensers or condensing sections can also be water-cooled or propeller type.

# CoolSpot Ductless: Dimensions

## Air-Cooled Units



## Water-Cooled, Chilled Water, Air-Cooled with Remote Condenser/Condensing Unit



## CoolSpot Ductless: Features

The CoolSpot Series of units are ceiling grid mounted units. They can be applied as a single package or split system with the evaporator remote from the condensing or condenser section. They are available as air-cooled, water-cooled or chilled water configurations.

Additionally, the units are available as standard configurations or they can be customized for a specific application as a made-to-order unit.



- Air-Cooled, Water-Cooled or Chilled Water Configurations
  - Ceiling Grid Mounted Package
  - 1 – 3 Ton
  - Cabinets Constructed of Scratch-Resistant, Heavy-Duty Galvanized Steel
  - Drain Pan Overflow Switch
  - Adjustable Supply Grille
  - Return Air Grille with Integrated Filter Rack
  - Completely Serviceable at Ceiling
  - Accessible from Conditioned Space Behind Filter:
    - Evaporator Fan Speed Switch
    - Sight Glass / Moisture Indicators
    - High- and Low-Side Schrader Access Fittings
  - Access Through Both Sides of Unit
  - Saves Valuable Floor Space
  - Fits Through 29" Doorways
  - Functionally Run Tested at the Factory
  - Variety of Thermal/Acoustical Insulation in Return/Supply Plenum, Evaporator Section and Condenser Blower Section
  - Stainless Steel Drain Pan in Evaporator Section
  - Direct-Drive Multi-Speed Evaporator Blower
  - Belt Drive Condenser Blower
  - Ball Bearing Motors
  - Resiliently Mounted Ball Bearings for Condenser Blower
  - 1" Condenser Blower Shafts
  - Cast Iron Pulley and Sheaves
  - Inherently Protected Motors and Compressors
  - High- and Low-Pressure Switches
  - Loss of Air Safety Switch (when electric heat is used)
  - Crankcase Heaters on all Reciprocating Compressors
  - Rubber-in-Shear Vibration Isolators for all Compressors
  - Refrigerant Line Vibration Isolators on all Reciprocating Compressor Units
  - Unit Rubber Vibration Isolators
  - Individual Contactor for Each Motor, Compressor and Electric Heat Element
  - Adjustable Expansion Valve with External Equalizer
  - Filter Drier
  - 1" Pleated Filter
  - Blow-Through Air Flow
  - Coaxial Counterflow Heat Exchanger on Water-Cooled Units
  - 2-way, 150 psig Water Regulating Valve on Water-Cooled Units
  - Condenser Drain Pan on Water-Cooled Units
- Partial List of Options**  
(items in **BOLD** are factory installed):
- **Electric Heat or Reheat (finned tubular)**
  - **Heresite Coated Coils**
  - **Steam Canister Humidifier**
  - **Hot Gas Bypass**
  - **Low Ambient Controls**
  - **Freezestat**
  - **Microprocessor Controls**
  - Non-Fused Disconnects
  - Variety of Thermostats and Controls
  - 3-way and 350 psig Water Regulating Valves



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