



**Providing Comfort**

**Manufactured by United CoolAir Corporation**



3 - 30 Ton Vertical  
Air Conditioner



20 - 30 Ton  
Trailer-Mounted  
System



3 - 15 Ton Horizontal  
Air Conditioner  
Indoor/Outdoor



150 kW Horizontal  
Heating System



15, 30 & 60 kW Horizontal  
Heating System

## **Portable Systems**

**Portable / Mobile / Temporary**

**3 - 80 Tons Cooling**

**15 - 150 kW Heating**

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



## What Can We Build for You?

### United CoolAir Offers Capability

United CoolAir has over 20 years of experience making portable and temporary cooling and heating systems. This started with military units and the rigorous demands that go with those applications.

Over the years this experience grew into the commercial rental industry. This strong foundation has provided the capability to apply units for many different applications and needs.

This brochure represents the standard product line. These units start with many features and benefits. From there, standard options can be added to get the unit or system to meet the requirements of the marketplace.

But this is not the whole story with United CoolAir. Don't feel limited by what is listed in this brochure. The standard features can be modified or deleted, while at the same time new features can be added.

Over the years United CoolAir has designed and fabricated specialty systems. These have been used for such applications as aircraft ground support, dehumidification for marine dry dock work, high and low ambient conditions, disaster recovery first responders and high static pressure applications.



- Controls can be built into the unit, or in some cases a remote thermostat can be employed.

### United CoolAir Provides Flexibility

The units include horizontal or vertical configurations. Units can be cooling only, heating only or cooling / heating systems.

Some of the units can be used indoor (condenser air is ductable to the outside or into a plenum where it won't be objectionable) while others can only be used outdoor. In some units they have the flexibility to be used in both in or outdoors.

Several units have been designed incorporating flexible duct to move the conditioned air where it is needed. Some units have been designed to provide a "free-blow" capability. The "free-blow" units even have the flexibility, with optional duct adaptors, to be used with flex duct.

The larger units lend themselves to being mounted on a pod. Some of the smaller units can be provided on casters to make handling easier. A compact trailer configuration is available for easy transport to a job site.

Many of the unit features and options have come about at the request of customers. This helps to keep the designs and product offerings evolving and fresh. United CoolAir hasn't stopped the design efforts. Flexibility grows with the combined efforts and ideas from many sources.



## Air Conditioners Designed Exclusively for Temporary Cooling and Heating

### United CoolAir Delivers Reliability

United CoolAir units are premium units. The cabinets are designed for being moved around. They must withstand the abuses of multiple moves, unlike converted rooftop units. Refrigerant piping must also be able to flex from the movement.

Reliability is paramount for disaster recovery, special events, supplemental heating or cooling or manufacturing processes. Components are selected for their durability and exposure to the elements.

Cabinets are powder coated to withstand the effects of weather and to retain a clean appearance for many years.



### United CoolAir Offers Value

Each of these basic premises combine into a synergistic effect that is defined simply as value.

Less expensive choices can be made in this arena. However, those units will be long gone while the United CoolAir units will still be running strong.

United CoolAir units, more than 10 years old, are still being used everyday. That translates into real ROI.

### Providing Comfort

This is what we do. Comfort is not just how well the equipment provides the conditioned air, but how you feel about the decision to work with United CoolAir for your air conditioning needs.

You should feel comfortable that the vendor has a strong history and capability. The vendor must have the knowledge and experience to know what works and what doesn't and the ability to translate this into the best product you can get for your specific requirements.

The cooling units use R-410a, an environmentally friendly refrigerant. You need to feel comfortable that the equipment has been designed around what is important to your customers.

Make no mistake about it, we are going to ask "What can we build for you?" We recognize that you have choices and hope that our team will be included as your choice. Your vision may end up being the new norm or gold standard in the industry and United CoolAir wants to be your partner in this endeavor for the long haul. You must feel comfortable that the units you are offering your customers will help build your business and reputation.





## Cooling Systems: 3 to 60 Tons Up to 80 kW Heating Available



### Vertical Air Conditioners

#### 3 – 30 Tons

The vertical air conditioners are characterized as easy to transport and having a small footprint. These units are ideally suited for tent cooling as a through the wall configuration. Optional duct adapters allow use with flex ducting to direct the air where it is needed versus the standard “freeblow” bi-directional louvers.

### Horizontal Air Conditioners

#### 3 – 15 Tons Cooling / Up to 45 kW Heating, Indoor or Outdoor Operation

The horizontal air conditioning units have a low profile design. These can be provided with casters for easy mobility or with an Integral fork lift pad. Models up to 15 tons are available for indoor applications using a ducted condenser air discharge.



#### 20 – 30 Tons Cooling / Up to 80 kW Heating

The 20- to 30-ton horizontal air conditioning units have a low profile design for mobility, minimal space requirements and can be stacked for storage or shipping. The units can be configured for cooling only or combination cooling/heating ducted air supply.



# Portable Trailer Air Conditioners

## Portable Horizontal 20 – 30 Tons

A compact, lightweight trailer for portable/temporary uses. This DOT-rated trailer includes dual-axes, hydraulic brakes, dual leveling jacks and spare tire. Air conditioners are fabricated around 92” tubular frame for rigidity.



# Portable Heating Systems: 15 to 150 kW



## Small Horizontal Heaters 15 kW, 30 kW & 50 kW

Mobility is the key for the small horizontal heaters. Casters make moving into a space through standard doorways convenient. Units can be ducted for specific spot heating or an optional “free-blow” bi-directional grille can be utilized for general area heating. Multiple safety features provide peace of mind.

## Large Horizontal Heaters Up to 150kW

Units are typically mounted on an integral fork lift pod. Multiple stages of heat, up to four, allow the heat output to match the load requirements. Units are typically ducted to the space using flex duct with high static blower performance. Units are stackable for storage and can be provided with several control options, including a variable frequency drive (VFD).





## Dehumidification



### Dehumidification Systems

3 – 30 Tons

Therm~Air dehumidification units have an ESP up to 20" and are designed to fill a niche where conventional equipment does not hold up as well. Units are very effective for water remediation, restoration, construction drying, production processes and surface coating.

## Specialty Systems

### Specialty Units

Therm~Air manufactures specialty air conditioning and heating systems for a variety of temperature and humidity control situations. Units are built to your exact specifications.



100% Outside Air



30 - 80 Ton Horizontal System



**Redundant High / Low Ambient Heat Pumps**



**High Static Pressure Aircraft Ground Support Cooling / Heating Unit**



**Disaster Recovery Unit, 2-Ton with Lifting Bars and Power Cable**



**2-Ton Unit with DX Cooling and Chilled Water Cooling for UPS Container**



**Portable Shelter Systems and High Ambient Configurations**

# Physical Data

		Dimensions* (W x H x L)	Approximate Weight*	
Cooling	Horizontal	PAC3, 4, 5	34 x 45 x 55	860
		PAC8, 10, 12	43 x 59 x 68	1450
		PAC15	43 x 69-1/2 x 83-1/2	1775
		PAC20 - 30	88-1/2 x 96 x 155-1/2	6300
	Vertical	PACH15, 20, 25	94 x 58-1/4 x 89	3500
		PC-VA5	44 x 71-1/2 x 31	800
		PC-VA8 & 10	32 x 68 x 47	1250
		PC-VA12, 15 & 20	91-1/4 x 94-1/4 x 36	2600
Heating	Horizontal	PC-VA25 & 30	99 x 121 x 45	2900
		PC-VAP25	110 x 92-3/4 x 51	3300
	Vertical	PHH15 to 50	34 x 45 x 55	575
		PHH150	50 x 51-3/4 x 89	1290
Dehumidification	Horizontal	PHV150	91-1/4 x 95-1/4 x 36	1325
		PDH5	35 x 73 x 55	920
		PDH15	90 x 50 x 89	2325

\* Dimensions and weight are approximate, depending on options and accessories.

## Portable/Mobile Systems for a Wide Variety of Applications

### General Applications

- Temporary Structures
- Back-Up Cooling
- Spot Cooling
- Emergency Cooling
- Water Remediation
- Fire and Water Restoration
- Construction Drying
- Heating
- Dehumidification

### Office Buildings/ Schools

- Computers/ Telecommunication
- Off-Hour Night/ Weekend Cooling
- Renovation
- Humidity Control
- Kitchens
- Heating
- Dehumidification

### Industrial Applications

- Temperature-Sensitive Equipment
- Manufacturing Spot Cooling
- Spot Cooling for Personnel
- Vessel Cooling
- Plant Shutdowns
- Warehousing
- Heating
- Dehumidification

### Special Events

- Tent Functions
- Sporting Events
- Corporate Functions
- Outdoor Weddings
- Movie Studio Productions
- Exhibit/ Conference Halls

### Military

- Portable Shelter Systems
- Ground Support
- Marine Applications



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PPH: (717) 848-3470 FAX: (717) 845-4953  
 e-mail: [uca@unitedcoolair.com](mailto:uca@unitedcoolair.com) [www.unitedcoolair.com](http://www.unitedcoolair.com)



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