

VertiCool

Classic

- Self-Contained Vertical Air Conditioning Systems
- 3 - 25 Tons
- Air-Cooled, Water-Cooled, Chilled Water and Heat Pump



United
CoolAir Corp™

www.unitedcoolair.com

VertiCool *Classic*

Self-Contained Vertical Air Conditioning Systems

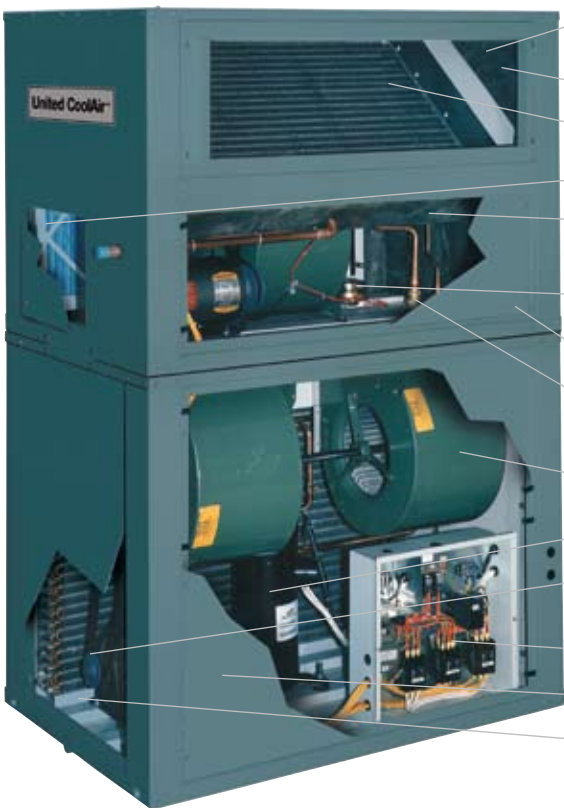
Built with the Quality and Features You Want

The VertiCool Classic was developed for commercial tenant fit-out applications. The replacement and renovation market is an excellent use of the VertiCool Classic due to its flexibility. The unit's slim vertical construction fits neatly along walls or in closet spaces, and vents easily to an outside wall. Outstanding performance is assured with the use of quality components, assembly and factory testing.



VertiCool Features

Blow-through model illustrated



- Thermal/acoustical insulation (2 lb. density) in both evaporator and condensing sections for quieter operation
- Evaporator discharge air path options (front, top or straight through)
- Copper tube aluminum fin coils
- Filters: Pleated/Throwaway
- Stainless Steel "V" style condensate drain pan ASHRAE Standard 62-1989 compliant
- Air flow proving switch prevents coil freeze up on loss of air flow (option)
- Durable powder coated cabinet inside and out
- Self-sealing refrigerant connection prevents refrigerant loss when unit is split (option on 3-10TR)
- Belt-drive centrifugal blowers
- Scroll compressor (optional phase rotation detection device)
- Static pressure field adjustable (.25" ESP standard and up to 1" ESP optional)
- All power components have individual overcurrent protection
- Front and side service access panels
- Condenser drain pan
- Two-way 150 psig water valve standard on water-cooled unit

Adjustable Airflow Configurations

Evaporator discharge air path can be top, rear or front; ducted or free blow. Air path is set at the factory so no field modification is required.

Note: Not all air path combinations shown. Air-cooled and water-cooled air paths are the same.

Versatile Design

The VertiCool Classic units can be built to order for specific applications, such as unique refrigerant components or air path configurations. Designed with quality components, each VertiCool Classic ensures reliable performance whether units are matched with air- or water-cooled condensing sections. There is a split-able feature for 3-10 tons (optional) as well as the standard on 12-25 tons to help move the units into place.

Rugged Construction

The structural metal frame of the VertiCool Classic provides unit strength and rigidity. High-density acoustical insulation maintains noise levels at a minimum.

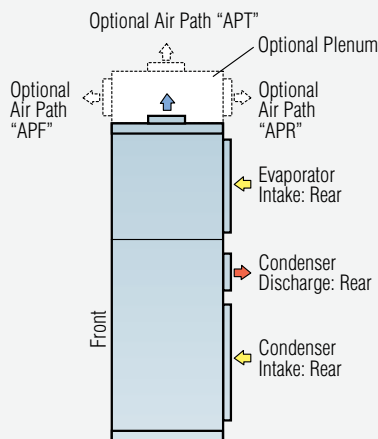
Easy Service

Service panels are easily removed for full access to all components. Evaporator and condenser motors are mounted on the same side of the cabinet for quick access. Other VertiCool Classic features include a sight glass (visible from outside the cabinet), high- and low-pressure switches, filter drier, thermal expansion valve with external equalizer and service ports.

Fast Installation

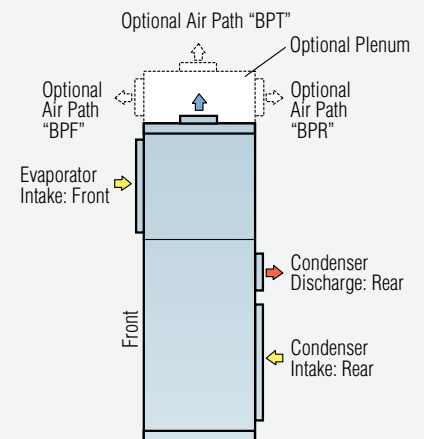
All VertiCool Classic units are shipped from the factory ready to run. All units fit through a standard 32" doorway. Subcooling and superheat are factory adjusted to recommended levels. Easy access to drain and electrical connections is also provided.

Basic Air Path "A"
Evaporator Discharge: Top
(Less the Plenum)



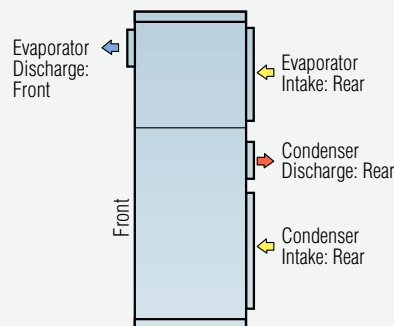
3 - 25 Tons Draw-Through
3 - 10 Tons Blow-Through

Basic Air Path "B"
Evaporator Discharge: Top
(Less the Plenum)



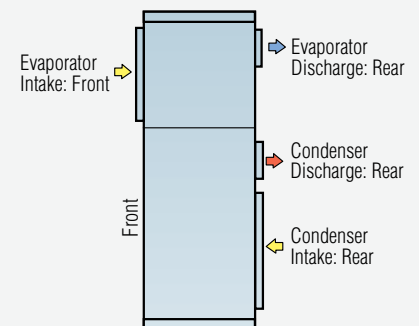
3 - 25 Tons Draw-Through
3 - 10 Tons Blow-Through

Basic Air Path "C"
Straight-Through
Front Discharge



3 - 25 Tons Draw-Through
3 - 10 Tons Blow-Through

Basic Air Path "D"
Straight-Through
Rear Discharge



3 - 25 Tons Draw-Through



Partial List of Options

- Hot Gas Bypass
- Fresh Air Damper (factory installed)
- Economizer with Enthalpy Controller (field-attached)
- Blower Motor Upgrades for Both Evaporator and Condenser
- Flooded Condenser
- Low-Ambient Damper
- Discharge Plenum with Bi-Directional Grille or Duct Flange
- Condensate Pump (externally mounted)
- High-Pressure Water Valves (factory installed)
- Protective Coil Coating
- Heat and Reheat (electric, hot water or steam)
- Humidification (electronic canister, steam)
- 100% Outside Air
- Single- or Dual-Compressor Systems
- Touch Pad Control
- Microprocessor Control
- Electro-Mechanical Thermostats

Technical Data

Compressor	Single			Dual					
	VA3G	VA4G	VA5G	VA8G	VA10G	VA12G	VA15G	VA20G	VA25G
Air-Cooled	VA3G	VA4G	VA5G	VA8G	VA10G	VA12G	VA15G	VA20G	VA25G
Total Btu/hr	38,700	48,700	58,000	104,000	121,400	159,700	194,400	241,600	309,000
Sensible Btu/hr	29,100	37,100	44,500	74,500	87,500	113,080	136,260	167,600	222,000
Water-Cooled	VW3G	VW4G	VW5G	VW8G	VW10G	VW12G	VW15G	VW20G	VW25G
Total Btu/hr	40,300	51,800	62,500	108,500	131,200	163,000	203,500	270,000	320,000
Sensible Btu/hr	31,000	40,700	49,850	83,300	102,350	124,950	156,200	207,750	220,000
Dimensions - Inches									
Depth	29	29	29	32	32	32	32	32	32
Width	44	44	44	62	62	88	88	88	88
Height without Plenum	64-1/2	64-1/2	64-1/2	80	80	79-1/8	79-1/8	79-1/8	87-1/8
Height with Plenum	76-1/2	76-1/2	76-1/2	92	92	91-1/8	91-1/8	91-1/8	99-1/8
Basic Unit Weight-lbs.									
Air-Cooled	630	640	650	1250	1275	2475	2475	2500	2650
Water-Cooled	560	580	590	1160	1190	2100	2150	2200	2350

Note: Air-Cooled Units Rated at 95°F Entering Condenser Air; 80°F DB/67°F WB Entering Air Temperature to Evaporator
 Water-Cooled Units Rated at 85°F Entering Water Temperature; 80°F DB/67°F WB Entering Air Temperature to Evaporator

Limited Warranty

All VertiCool Classic units come with a five (5) year compressor limited warranty and a one (1) year parts limited warranty.

Performance-Rated

All United CoolAir units and components are rated for exceptional performance and long life. The United CoolAir Corporation name stands for outstanding flexibility, quality and reliability in air conditioning equipment.



CITY OF NEW YORK
 MEA #59-89E VOL. V

491 East Princess Street, York, PA 17403 Toll Free 1-877-905-1111 Phone (717) 843-4311 Fax (717) 854-4462
e-mail: uca@unitedcoolair.com www.unitedcoolair.com