

VertiCool

Space Saver

- High-Capacity Space Saver Air Conditioning Systems
- Air-Cooled, Water-Cooled and Chilled Water
- 2 - 15 Tons Cooling Capacity



United
CoolAir Corp™

www.unitedcoolair.com

VertiCool Space Saver



The VertiCool Space Saver is the Choice for Limited Space Applications

- Meets ASHRAE standard 90.1 requirements.
- Ideal for renovations and retrofits.
- Small footprint maximizes floor space utility.
- Effective for high cost-per-foot locations.
- Where ceiling-mount systems are not practical.
- In space expansion where additional A/C is needed.
- Where access space is limited for delivery, service and/or maintenance.

Small Size; Big Performance

Designed specifically for applications having limited floor space and accessibility, the VertiCool Space Saver allows installation of an air conditioning system with minimal room modifications. The water-cooled VertiCool Space Saver can be specified with cooling capacity ranging from 2 to 15 tons. Standard scroll compressors provide stable cooling performance. And the unit can be equipped with options that tailor it to specific job requirements.

Some other features include:

- External static pressures up to 1" for ducted applications.
- Front access to components for easy installation and maintenance/service of blower motor, belts and pulleys.
- Scroll compressors are standard for better performance under a variety of operating conditions.
- Water-cooled units satisfy ASHRAE standard 90.1 requirements.
- The control box can be accessed while the unit is in operation.
- Electric heat or reheat is removable from the side.
- Chilled water coil connections and condensate available from either side of cabinet for versatile installation.
- Condensate line is internally trapped so there are no unsightly connections and provides reduced installation costs.



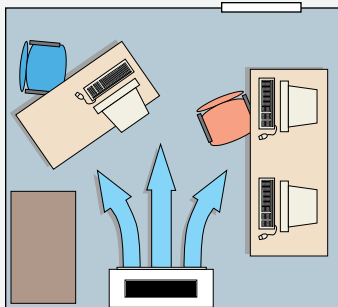
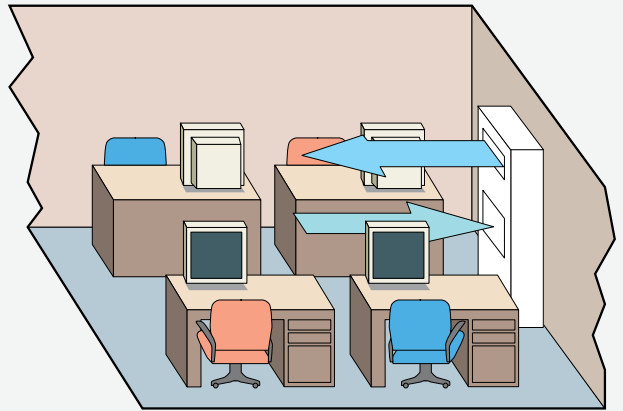
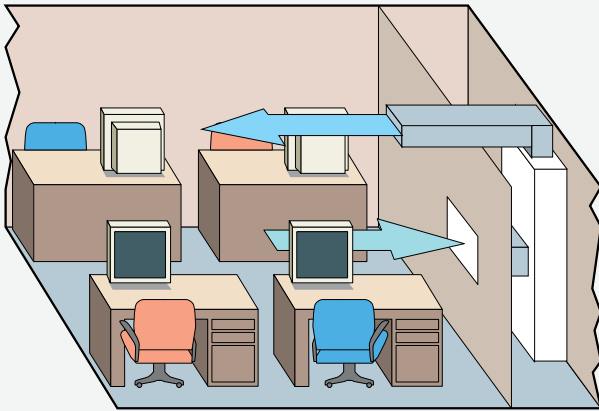
Typical Floor Space Savings

Size	Conventional	Space Saver	% Smaller
3 Tons	8.9 square feet	3.6 square feet	60%
5 Tons	8.9 square feet	7.3 square feet	18%
8 Tons	13.8 square feet	10.7 square feet	22%
15 Tons	19.6 square feet	15.6 square feet	20%

* Savings when compared to the VertiCool air conditioning unit. Other systems may vary.

Flexible Cabinet Design for Free-Blow or Ducted Operation

The VertiCool Space Saver is a stand-alone vertical air conditioning unit. An optional plenum with adjustable grills can be added to evenly distribute the supply air. The unit can also be adapted for ducted operation using the factory-installed duct flanges.



Ideal for Open Office Locations

The small footprint and low profile of the VertiCool Space Saver blends nicely into any office environment, and the cabinet is finished in a pleasing powder coated finish that won't easily scratch or fade. Balanced blowers, vibration-isolated compressors and acoustic insulation provide quiet operation.

Air-Cooled Condenser

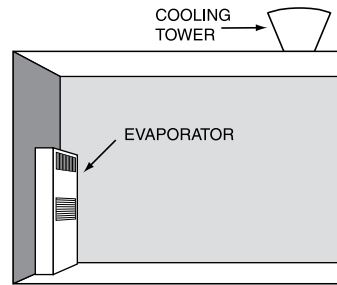
An air-cooled condenser can be added for heat rejection when condenser water is not available. The air-cooled condenser does not require additional indoor floor space and can be located internally near an outside wall or externally with an optional rain hood for roof or ground-level pad mounting.

A remote air-cooled condensing section can also be matched with the VertiCool Space Saver. By locating the compressor(s) in the condensing unit, the Space Saver will run even quieter.

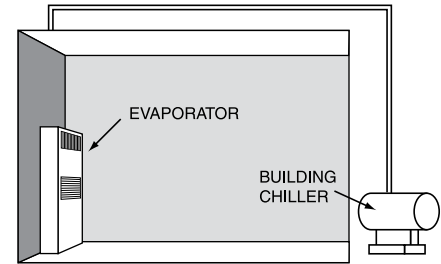


VertiCool Space Saver

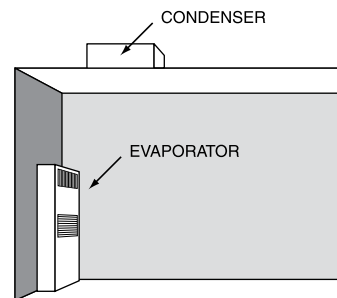
Configurations



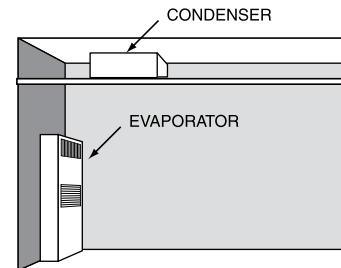
Water-Cooled



Chilled Water



Air-Cooled Split
(Condenser/Condensing Section Outdoor)



Air-Cooled Split
(Condenser/Condensing Section Indoor)

Options



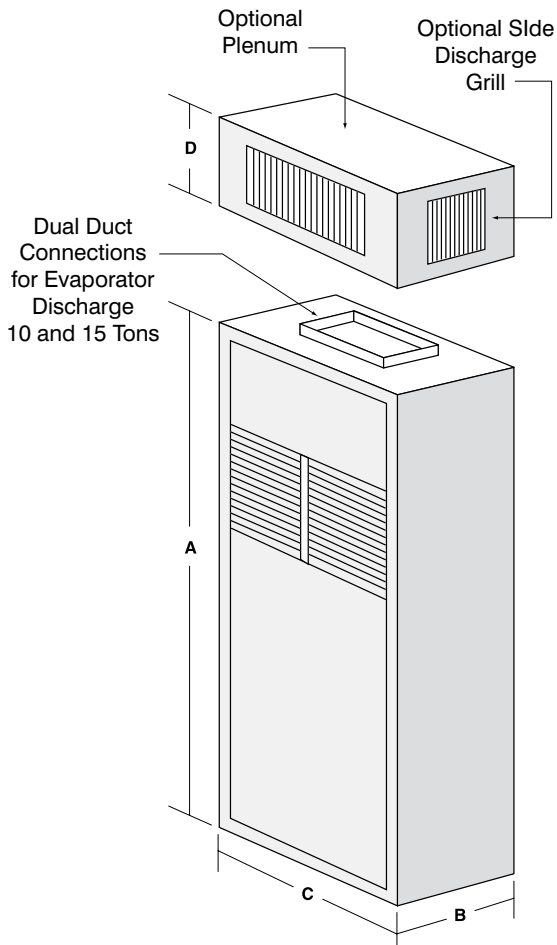
Flush-Mounted Controller

VertiCool Space Saver uses an economical wall mount thermostat for temperature control. The versatile Touch Pad Controller (TPC) can be flush mounted to the VertiCool Space Saver, which is designed for up to two-stage cooling and heating with an easy-to-read LCD display.

Partial List of Options

- Plenum with Grill
- High-Pressure Water Valve
- 3-Way Water Valve
- Condensate Pump
- Steam Coil
- Electric Heat
- Hot Gas Reheat
- Double-Wall Construction
- Hot Gas Bypass
- Water-Side Economizer

VertiCool Space Saver: Technical Data



Dimensional Data

Nominal Tons	Dimensions (inches)			
	A	B	C	D
2	60	16	32	14
3	60	16	32	14
4	68	22	48	14
5	68	22	48	14
7	68	22	48	14
8	78	24	64	14
10	78	24	64	14
12	78	30	75	14
15	78	30	75	14

Water Connection Data

Nominal Tons	Water Connection Pipe Size
2	7/8"
3	7/8"
4	1-1/8"
5	1-1/8"
7	1-1/8"
8	1-3/8"
10	1-3/8"
12	1-5/8"
15	1-5/8"

VertiCool Space Saver

Basic Model Designation

Example: VS W 3 G 3 AS -or- E VS A 3 G 3 AS 05
 b c d e f g a b c d e f g h

- a. **E** – Evaporator Configuration Only
- b. **VS** – VertiCool Space Saver
- c. **W, A, CW**
 “W” Water Cooled
 “A” Air-Cooled, Remote Section
 “CW” Chilled Water
- d. **2, 3, 4, 5, 6, 7, 8, 10, 12, 15** Indicates Nominal Cooling Capacity in Tons
- e. **G** – Common To All
- f. **1, 3, 4, 5, 7** – Indicates Voltage
 1 208 – 230V, 1PH (2-5 Ton Water-Cooled Units, 2-8 Ton Air-Cooled Units)
 3 208 – 230V, 3PH
 4 460V, 3PH
 5 575V, 3PH (contact factory)
 7 277V, 1PH (contact factory)
- g. **AS, A**
 “AS” Indicates 1 Compressor
 “A” Indicates 2 Compressors
- h. **05, 10, 15, 20, 25, 30** – Indicates KW Rating for Heaters

Capacity Data

Size (Tons)	No. Circuits	CFM	Max. ESP (in. H ₂ O) ⁴	Capacity ⁶		GPM	Motor HP ⁵	Approx. Weight (lbs.)
				Total BTUH	Sensible BTUH			
2	1	800	1”	27,270	18,480	6	1/2	435
3	1	1200	1”	38,560	25,940	9	3/4	435
4	1	1600	1”	54,370	39,280	12	3/4	550
5	1	2000	1”	46,900	48,000	15	1	600
6	1	2400	1”	82,000	59,500	18	1.5	650
7	1	2800	1”	90,660	66,940	24	2	700
8	2	3200	1”	110,580	79,900	24	1.5	1150
10	2	4000	1”	135,450	97,680	30	2	1200
12	2	4800	1”	167,850	124,390	36	2	1250
15	2	6000	1”	214,600	156,250	45	3	1300

- (1) Refer to Technical Data for specific performance values and for air-cooled or chilled water performance.
- (2) Performance based on 80°F db / 67°F wb entering air temperature. Water entering at 85°F with a 10° rise with 3 GPM/ton.
- (3) Approximate weight does not include any options.
- (4) Max. ESP will require alternate motor/drive package and may be affected by what options are included.
- (5) Standard motor horsepower. Refer to Technical Data for motor upgrade options.
- (6) Water-cooled performance



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