



OmegaAir™

100% Dedicated Outdoor Air System

Innovative Solutions for Comfortable
Indoor Environments

www.unitedcoolair.com

OmegaAir™

The OmegaAir™ dedicated outdoor air system (DOAS) is designed to work in conjunction with a space sensible heating/cooling system. Traditional HVAC systems are designed primarily to handle design sensible loads and are not adequately designed for the high latent loads produced by outdoor air. The OmegaAir™ is designed to exclusively handle the large latent ventilation load and deliver "neutral" air of 70°F to 72°F at 50% RH. OmegaAir's supply air dew point design temperature is lower than standard air conditioners to remove the maximum amount of moisture before delivery to the space.

Units are available as a water-cooled packaged unit or an air-cooled split system matched with our outdoor condenser. Systems are designed for indoor application in vertical or horizontal configuration.

- 3 to 15 Tons
- Vertical or Horizontal
- 450 to 3,000 CFM
- Water-Cooled
- Air-Cooled with Outdoor Condenser
- 7.5 to 70 kW Electric Heat - Single Point Power
- Digital Scroll Compressor



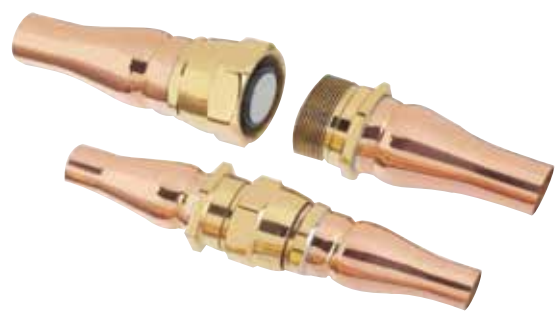
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Features and Benefits

- Vertical or Horizontal Cabinet Configuration
- Water-cooled Packaged Unit
- Air-cooled Matched with Remote Outdoor Propeller Fan Condenser
- Cabinet - Galvanized Metal
- Insulation - 2" Thermal/Acoustic Fiberglass (R-8)
- Double Wall / Solid Panel Liner
- 2" MERV 13, Pleated Throwaway Filters
- Draw-through Air Flow Configuration
- Belt-Drive Blower w/ Adjustable Pulley
- Sealed / Permanently Lubricated Motor Bearings
- IAQ Sloped Stainless Steel Drain Pan
- R-410A Refrigerant, Factory Charged
- Quick Connect Fittings on Units w/ Interconnect Kit (Air-cooled only)
- Aluminum Fin/Copper Tube Coils
- MOP Type Thermal Expansion Valve
- Modulating Hot Gas Reheat, 1st Circ.
- Electronic Head Pressure Control Valve, 3-Way w/2-Way Secondary Manual Bypass Valve (Water-cooled only)
- Single Point Power - With or Without Factory Installed Electric Heat
- Marvel Premium Microprocessor Controller w/ Wall Display *
- BMS Communications - BACnet MS/TP (field convertible to IP/Ethernet)
- Phase Reversal Sensor
- Unit Mounted Temp Sensor After Evaporator Coil
- Functionally Run Tested at the Factory

Lowest Cost and Quickest Retrofit Installations

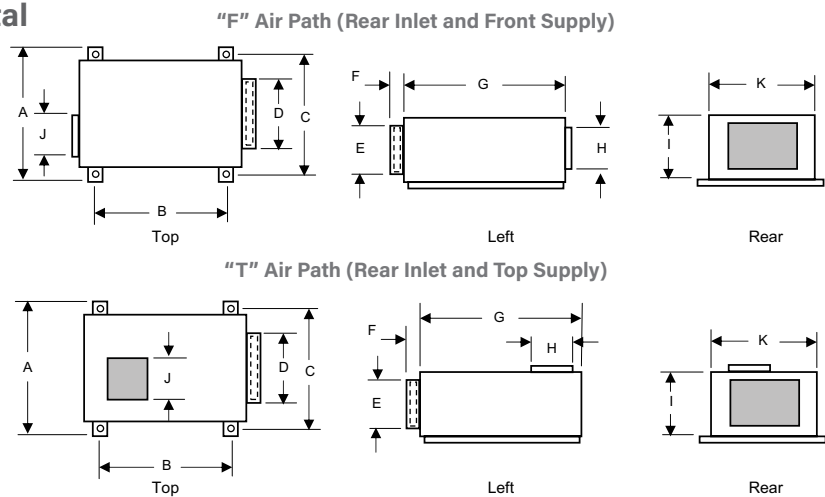
United CoolAir charges and functionally run tests each outside air unit before it leaves the factory. Units fit easily through standard 36" doorways, into elevators and down hallways eliminating crane lifts and building modifications. If the OmegaAir unit is matched with a remote air-cooled condenser then resealable refrigerant fittings are installed on each section to preserve the factory refrigerant charge. The field only provides additional refrigerant for the interconnecting refrigerant lines.



Re-Sealable Refrigerant Fittings

Dimensional Data

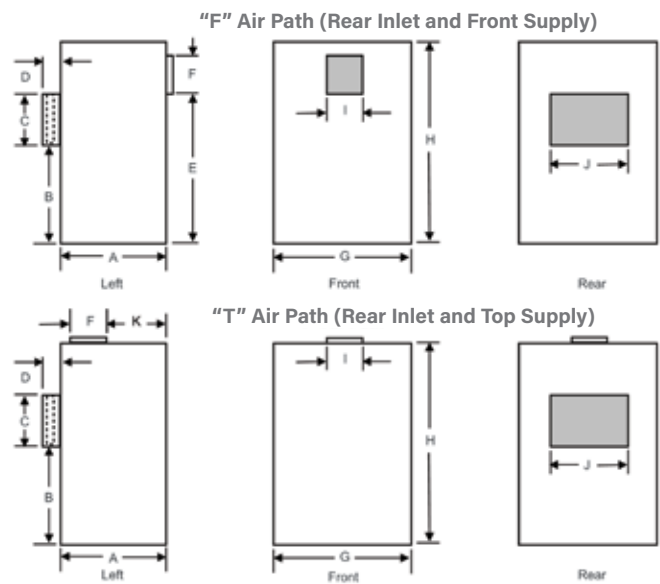
OmegaAir™ Horizontal



Tons	A	B	C	D	E	F*	G	H	I	J	K	L	M	N
3 - 8	54	61	52	39-1/8	20	5 or 11	65	11-9/16	26	10-5/8	50	N/A	N/A	N/A
9 - 15	70	42	68	58-3/4	25	5 or 11	46	13-11/16	30	12-1/2	66	4	21	25

* Extended filter rack - 14" to 34" with various heat options (electric, hot water or steam)

OmegaAir™ Vertical



Tons	A	B	C	D*	E	F	G	H	I	J	K
3 - 8	31	29-1/4	20	5 or 11	57-7/8	11-3/8	48	72	10-1/2	39-1/8	16-1/2
9 - 15	31	26-7/8	25	5 or 11	61-1/2	13-5/8	72	78	12-7/16	58-3/4	15-1/16

* Extended filter rack - 14" to 34" with various heat options (electric, hot water or steam)

We're on a Mission to Make the World Safer, Healthier,
and More Productive through our Innovative Products



OmegaAir™ is a trademark of United CoolAir.

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