

ControlAIR

3 to 60 tons

Series PW

Packaged Water Cooled DX Unit

Series CA

Split System Air Cooled DX Unit

Series HW

Chilled Water Air Handling Unit



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GENERAL

Advance Industrial Refrigeration, Inc. reserves the right to make changes and/or improvements in designs, features, options, and procedures without notice or obligation.

Introduction

ControlAIR air conditioning units are designed for the highest degree of reliability and humidity control to maintain room conditions as low as 72°F at 40% RH, as recommended to maintain electrical spaces at an ISA G1 (mild) environment, thereby minimizing component failures, operating costs, and electrical/control system downtime.

Units are available in a range of 3 to 60 tons of cooling capacity.



Series PW

Series PW is a vertical, water cooled package DX air conditioning unit. The unit has a fan section (top) and compressor/condenser section (bottom).

Series CA

Series CA is an air cooled split system DX air conditioning unit with vertical air handling unit section and remote air cooled condenser. The air handling unit has a fan section (top) and compressor section (bottom).

Series HW

Series HW is a vertical, chilled water air handling unit.

Does Humidity Matter in a Corrosive Environment?

ANSI/ISA-S71.04-2013 establishes airborne contaminant classes for industrial process measurement and control equipment in many industrial markets. Since the initial release in 1985, the standard defines the path to maintaining electrical room environments at a G1 (mild) environment, such that corrosion is not a factor in determining equipment reliability.

History of Electrical Room Air Quality (ERAQ) Standards

1985 – ISA-S71.04-1985

- Established room classifications based on reactivity levels and contaminants

2006 – RoHS (Restriction of Hazardous Substances) Directive

- Restricted use of lead and other hazardous materials in electronics, leading to increased component failures

2013 – ANSI/ISA-S71.04-2013

- Standard revised to include silver in response to the impact of the RoHS Directive



Industries Impacted by ANSI/ISA-S71.04-2013

- Pulp and Paper
- Waste Water Treatment
- Fertilizer Manufacturing
- Oil and Gas Refining
- Ore Smelting
- Steel Manufacturing
- Aluminum Manufacturing
- Chemical Industry
- Processes with Fossil Fuel Combustion



Per the standard:

- High temperature impacts rates of corrosion linearly.
- High relative humidity impacts rates of corrosion exponentially.
- Electrically charged particles result in short circuiting.
- Allowable airborne contaminant (H₂S, SO₂, Cl₂, NO_x, HF, NH₃, etc.) levels are defined for each classification (G1, G2, etc.).



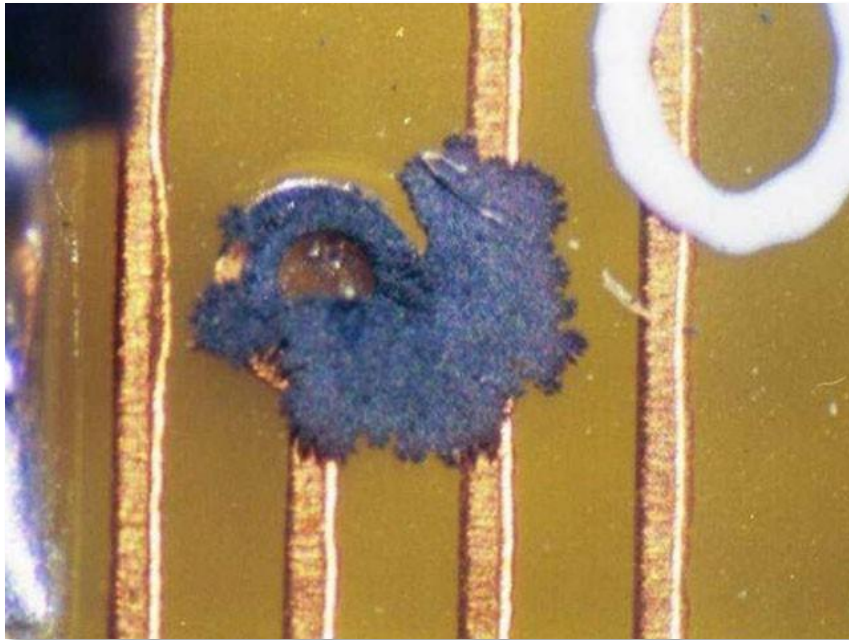
The standard establishes airborne contaminant classes for normal operating conditions of industrial process measurement and control equipment, with the following reactivity levels:

- G1 (Mild) - corrosion is not a factor in determining equipment reliability
- G2 (Moderate) – the effects of corrosion are measurable and may be a factor in determining equipment reliability
- G3 (Harsh) – there is a high probability that corrosive attack will occur
- GX (Severe) – only specially designed and packaged equipment would be expected to survive

Regarding the corrosion contributors:

- The need to control temperature within electrical spaces is generally not debated.
- Electrically charged particulate is addressed by filtration of recirculated air, air locks, dedicated recirculation units (in very dusty areas), and good housekeeping address accumulation of electrically charged particles.
- Most customers with corrosive environments pressurize the spaces with air scrubbed by activated carbon media units to reduce the airborne contaminants.

AIR's AdsorbAIR (pressurization air unit) and RecircAIR (recirculation air unit) products address the issue of airborne contaminants through activated carbon media.

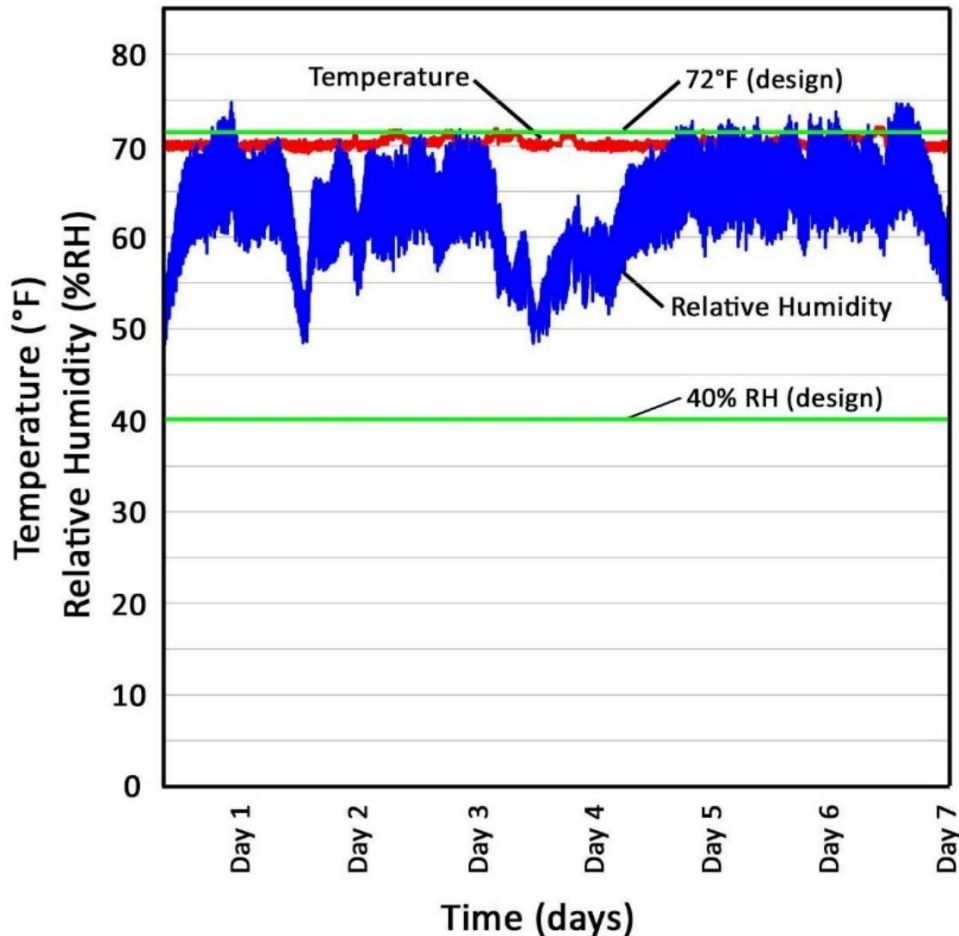


Creep Corrosion

This brings us to the control of relative humidity. The standard expands on humidity impacts as follows:

- Allowable airborne contaminant levels in the standard for a G1 environment assumes the space is maintained below 50% relative humidity. Lower relative humidity will reduce corrosion further.
- Copper reactivity increases one level (e.g., from G1 to G2) for every 10% increase in relative humidity above 50%.
- Copper reactivity increases one level with a relative humidity change above 6% per hour.

Corporate standards developed in response to the standard have typically established the room design condition as 72°F and 40 to 42% relative humidity. This is a challenging condition beyond the capabilities of commercial units, but achievable with proper coil selection, usually 5 to 6 rows.

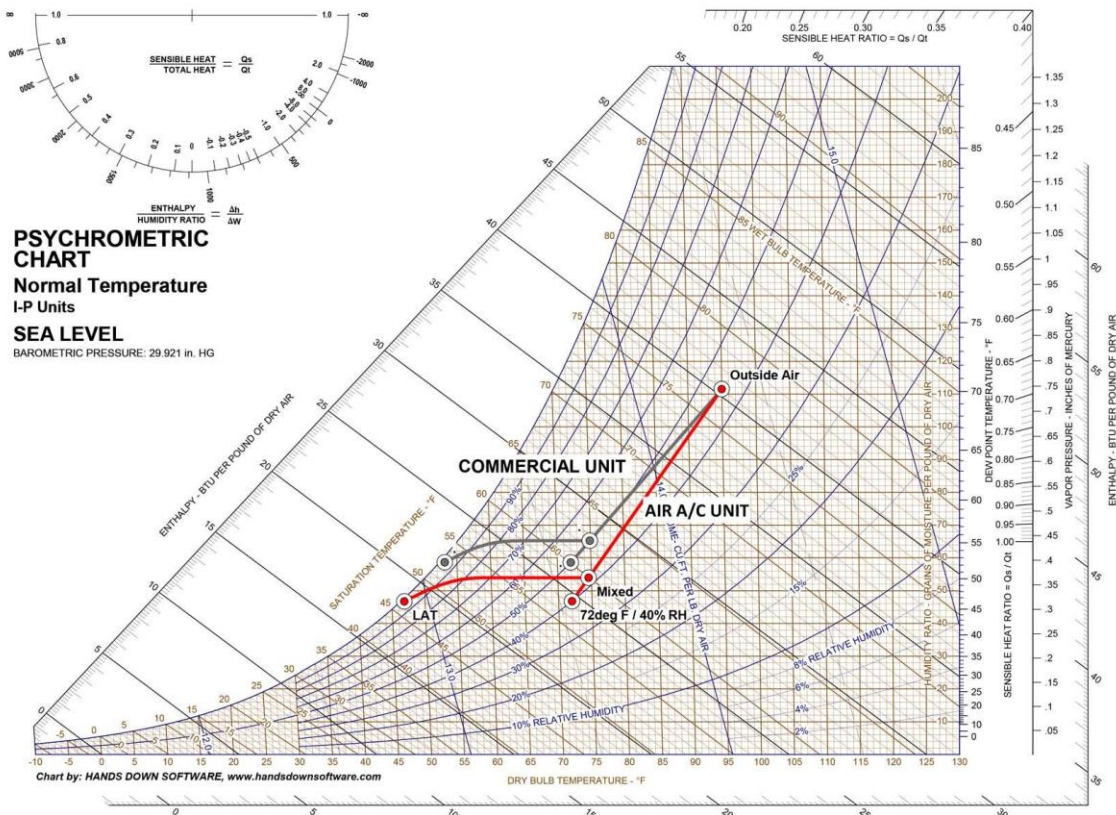


The chart above is from an electrical room with no humidity control. Note the following:

- The air conditioning unit has scroll compressors, which have no capacity modulation.
- The compressors are cycled (on/off) to maintain room temperature.
- Room relative humidity is not being controlled and varies between 60 and 70% as the compressors cycle.
- Room relative humidity swings over 10% per compressor cycle, occurring multiple times per hour.
- Due to high humidity and swings in humidity, this room is predicted to be a **G3 (Harsh) or GX (Severe) environment per the standard**. This is true even if the airborne contaminants have been maintained at the proper levels with carbon filtration.

Maintaining a G1 environment requires:

- Proper coil selection for the required coil leaving condition, usually 46.4°F apparatus dew point temperature.
- Compressor designs with capacity modulation running closer to actual capacity required instead of repeated on/off cycling. Coil leaving air is maintained at the desired room dew point to stabilize room conditions. This requires reciprocating compressors with cylinder unloading, scroll compressors with VFD, or digital scroll compressors.
- Supply fans furnished with VFD's to vary airflow to the room based on room dry bulb temperature to minimize required reheat due to overcooling.
- Reheat with fine temperature control, such as SCR control for electric reheat.



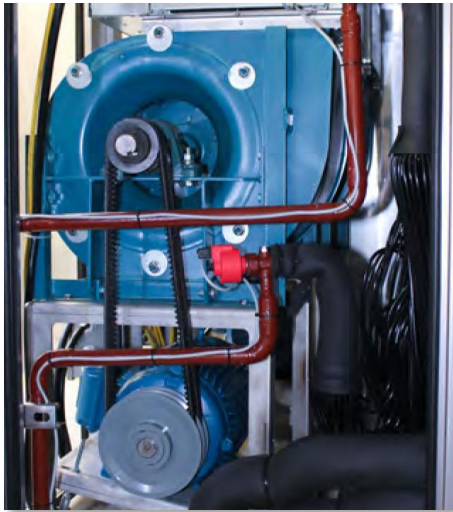
So, to answer the initial question, humidity control is a vital, but often overlooked, factor in the control of corrosion within electrical rooms exposed to airborne contaminants. The challenges of this application cannot be met by applying conventional HVAC equipment not designed for these leaving conditions and control sequences.

The ControlAIR unit was designed specifically for this application and is the industry standard for Customers committed to protecting the reliability of their electrical and control rooms.

ControlAIR Features

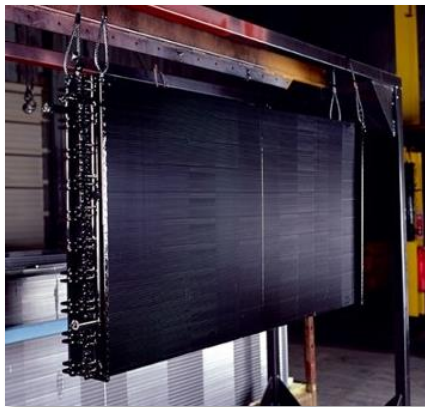
Fans

Supply fans are variable speed, DWDI, forward curved or backward inclined, centrifugal design, balanced per ANSI/AMCA 204-05, G6.3 level. Bearings are pillow block design. Units above 6 tons are provided with two blowers, each with a dedicated TEFC motor.



Coils

DX and chilled water cooling coils are furnished with copper tubes and aluminum fins. Maximum fin spacing is 10 fins/inch. Options for 90/10 cupro-nickel tubes and coil protective coatings are available upon request.



Compressors

Compressors are semi-hermetic reciprocating design, with cylinder unloaders, oil sight glass, crank case heater, and high/low pressure transducers.

Refrigerant is R-134a.



Condensers

Condensers are furnished with 0.035" thick copper tubes with removable heads for tube cleaning. Option for 90/10 cupro-nickel tubes are available upon request.



Filter Driers

Each refrigerant circuit is equipped with suction and discharge service valves, liquid line filter drier with removable cores, liquid sight glass moisture indicator, liquid line solenoid valve, and thermostatic expansion valve.

Water Regulating Valves

Electric condenser water regulating valves are factory installed inside the unit.



Control Panel

Unit control panel is NEMA 12 rated and mounted on the unit casing or remotely. Unit power supply may be 480v/3ph/60hz, or 575v/3ph/60hz.



Electric Heaters

Fin tubular heaters with stainless steel sheath and proportional SCR control are provided mounted within the unit.



Unit Casings

Casings are fabricated from double wall 18 gauge 304 stainless steel with fasteners and toolless compression latches that allow for easy removal. Fan sections panels and gasketed doors are insulated with 2" thick closed cell elastomeric foam.



AIR Industrial A/C Products Comparison

	CoolAIR	PreciseAIR	ControlAIR	Commercial
Humidity Control to 72°F/40% RH	No	Yes	Yes	No
Unit Casing and Frame	Single Wall 18 ga Stainless Steel	Single Wall 18 ga Stainless Steel	Double Wall 18 ga Stainless Steel	Varies
Air Handler Panel Insulation	1" Thick Elastomeric Foam	1" Thick Elastomeric Foam	1" Thick Elastomeric Foam	Varies
Access Doors on Each Side	Yes Removable Panels	Yes Removable Panels	Yes Hinged Doors	No
Supply Outlet Backdraft Dampers	Not Required (1 Motor)	Not Required (1 Motor)	Yes	Not Required (1 Motor)
Drain Pan	Double Slope Stainless Steel	Double Slope Stainless Steel	Double Slope Stainless Steel	Varies
Fan Wheel Design	Forward Curved	Forward Curved	Backward Inclined above 20 tons	Forward Curved
Number of Fan Motors (for units with 2 fans)	Dual Fans with 1 TEFC Motor	Dual Fans with 1 TEFC Motor	Independent TEFC Motor for Each Fan	Dual Fans with 1 ODP Motor
Fan Motor Control	Starter	Starter (standard) VFD (option)	VFD	Starter (standard) VFD (option)
Pillow Block Fan Bearings	Standard	Standard	Standard	No
Compressor Design/Modulation	Scroll On/Off	Scroll w/VFD	Reciprocating Cylinder Unloading	Scroll On/Off
Shell and Tube Condensers	Standard	Standard	Standard	Varies
90/10 Cupro-Nickel Condenser Tubes	Option	Option	Option	Varies
Water Regulating Valves (DX)	Capillary (Pressure Actuated)	Capillary (Pressure Actuated)	Electronic	Capillary (Pressure Actuated)
Expansion Valves (DX)	Thermostatic	Thermostatic	Electronic	Thermostatic
Serviceable Filter/Drier	Standard	Standard	Standard	No
Heater Location	Duct Mounted as Specified	Duct Mounted as Specified	Unit Mounted	Varies
Remote Control Panel	No	Option	Option	No
NEMA 4X Control Panel	No	Option	Option	No
Unit Controller	Room Thermostat	Carel PLC (standard) CompactLogix (option)	Carel PLC (standard) CompactLogix (option)	Varies
Ethernet Communications	No	Option	Option	No
Locking Non-Fused Disconnect Switch	No	Option	Option	No

Resources

The following information is available for download: <https://www.air-eng.com/resources>

Product Catalog and IOM Manual

- Catalog-ControlAIR, “Product Catalog - ControlAIR”.
- IOM-ControlAIR, “Installation, Operation, and Maintenance Manual - ControlAIR”.

Drawings

- ControlAIR Configurations
- ControlAIR Dimensional Drawings

Model Number Designations

- Series PW
- Series CA
- Series HW

Guide Specifications

- Series PW
- Series CA
- Series HW

Technical Bulletins

- TB-01, “Splitting and Re-assembling Instructions PW Series”.
- TB-14, “Piping Recommendation for Refrigerant Systems”.
- TB-15, “Condensate Trapping”.
- TB-33, “Blowers Maintenance”.
- TB-52, “A0002238 Installation Instructions (Wall Mounted Temp/RH Sensor)”.
- TB-54, “A0007416 Installation Instructions (Temp/RH Sensor)”.
- TB-61, “A0003701 Installation Instructions (Temp/RH Sensor)”.
- TB-64, “Torque Bolts Generic Assembly”.

Technical Reports

- TR-01, “Pre-startup Checklist”.
- TR-02, “A/C Unit Start-up Report”.

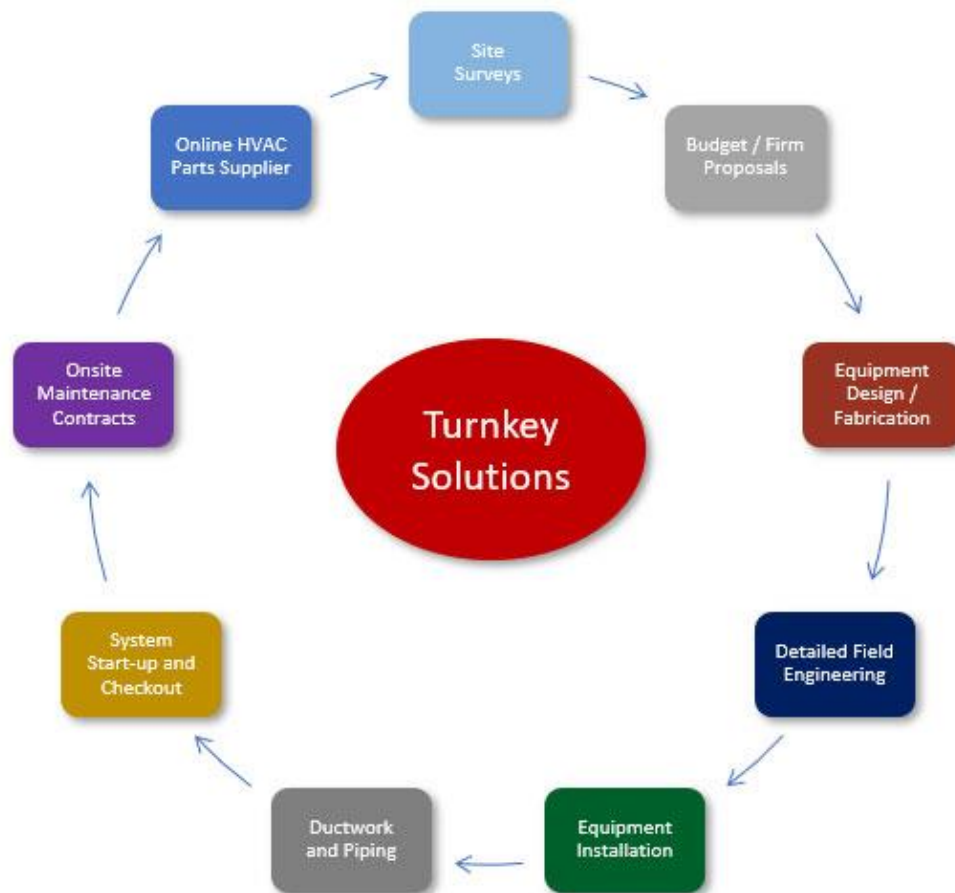
Miscellaneous

- AIR Standard Warranty Policy.

Additional Services

AIR offers additional services to provide a full turnkey mechanical solution for our customers. These include:

- Startup and commissioning support for all AIR equipment by a factory certified technician.
- Detailed mechanical engineering, including design of ductwork, piping, etc.
- Demolition of existing equipment, ductwork, and piping.
- Rental equipment for temporary cooling.
- Furnish and installation of new AIR equipment, including chillers, pump packages, air conditioning units, carbon filtration units, recirculation units, etc.
- Furnish and installation of additional equipment not manufactured by AIR, required for a complete system.
- Fabrication and installation of new ductwork and piping.
- Architectural/structural modifications, as related to the HVAC installation.
- Web based parts supplier for all AIR and other HVAC equipment.
- Permanent on-site maintenance contracts offering continuous support for AIR and other HVAC equipment.



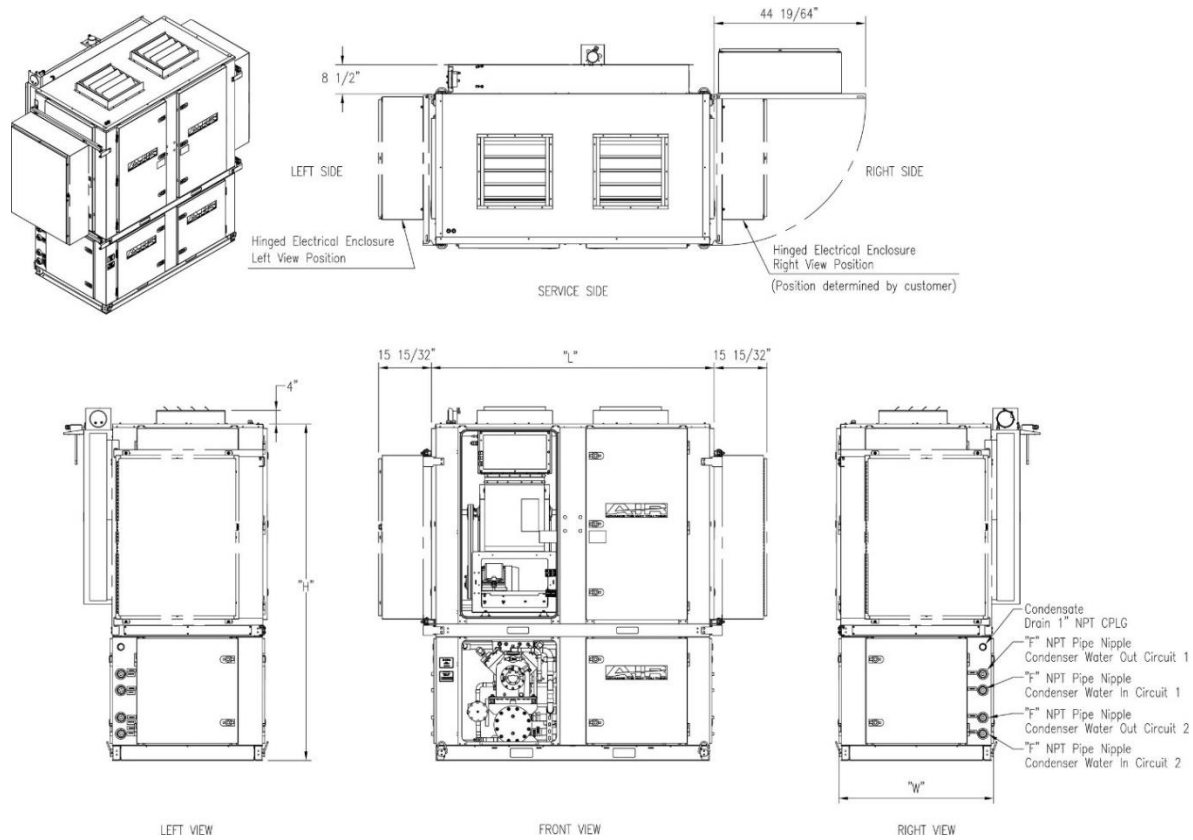
SERIES PW – PACKAGED WATER COOLED DX UNIT

Series PW – Unit Capacities

SERIES PW PERFORMANCE												
Unit Size	PW-00	PW-01	PW-02	PW-03	PW-04	PW-05	PW-06	PW-07	PW-08	PW-09	PW-10	
SUPPLY FANS												
Nominal CFM (total)	2,025	3	4,050	5,400	7,200	9,000	10,800	12,600	15,900	18,225	21,250	
Blower Quantity	1	3700	2	2	2	2	2	2	2	2	2	
Blower Motor Quantity / HP	43,832	43,863	43,864	43,864	43,866	43,866	2 / 7.5	2 / 7.5	43,871	43,871	43,871	
EVAPORATOR COILS												
Number of Rows	4	4	5	6	5	6	5	6	6	5	6	
Fins per Inch	10	10	10	10	10	10	10	10	10	10	10	
Face Area (ft ²)	7.5	12	12	12	20	20	28	28	35.3	40.5	47.3	
Coil Face Velocity (fpm)	270.0	308.3	337.5	450.0	360.0	450.0	385.7	450.0	450.0	450.0	449.7	
COMPRESSORS												
# of Ref. Circuits/Compressors	1	2	2	2	2	2	2	2	2	2	2	
Compressor Design	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	
Refrigerant Type	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	
ENT. AIR	COOLING CAPACITY											
80°F DB 67°F WB	Total (btuh)	69,145	134,203	191,484	266,952	318,399	410,496	522,653	609,597	604,624	680,303	783,873
	Sensible (btuh)	50,663	95,093	124,588	171,968	211,701	271,798	336,054	395,481	430,337	488,152	565,448
	Flow (gpm)	16.3	15.1	24.0	29.2	34.5	48.4	84.0	103.7	97.9	94.3	108.6
75°F DB 62.5°F WB	Total (btuh)	63,193	121,798	175,041	243,076	290,003	378,792	480,860	554,283	552,382	624,370	713,310
	Sensible (btuh)	43,548	92,831	122,339	168,446	207,307	268,430	331,527	386,969	421,635	479,446	552,633
	Flow (gpm)	13.7	13.0	23.5	25.1	30.1	50.9	91.1	88.2	83.1	88.8	91.7
72°F DB 57.2°F WB	Total (btuh)	55,568	108,292	158,116	216,674	262,346	340,511	435,015	502,629	502,050	567,235	648,049
	Sensible (btuh)	54,010	100,356	131,700	179,524	224,152	288,671	356,520	417,372	460,751	524,157	604,763
	Flow (gpm)	11.6	11.9	14.5	19.8	28.4	41.9	86.0	81.6	87.0	91.2	91.4

- Condenser water flow based on entering at 90°F, leaving 100°F.
- Contact AIR's sales staff at info@air-eng.com for a detailed proposal based on your actual design conditions.

Series PW – Dimensional Info



SERIES PW DIMENSIONS

UNIT SIZE	W	L	H	# of Circuits	F	SHIPPING WEIGHT
PW-00	45-1/4"	51"	86-1/2"	1	1" NPT	1,900 LBS
PW-01	45-1/4"	72"	86-1/2"	2	1-1/4" NPT	2,730 LBS
PW-02	45-1/4"	72"	86-1/2"	2	1-1/4" NPT	2,780 LBS
PW-03	45-1/4"	72"	86-1/2"	2	1-1/4" NPT	3,115 LBS
PW-04	45-1/4"	81-1/4"	98-1/2"	2	1-1/2" NPT	3,925 LBS
PW-05	45-1/4"	81-1/4"	98-1/2"	2	1-1/2" NPT	4,000 LBS
PW-06	48-1/4"	110-1/2"	100-1/4"	2	2" NPT	4,800 LBS
PW-07	48-1/4"	110-1/2"	100-1/4"	2	2" NPT	5,010 LBS
PW-08	54-1/8"	133-1/8"	100-1/4"	2	3" NPT	6,500 LBS
PW-09	54-1/8"	133-1/8"	113-3/8"	2	3" NPT	8,750 LBS
PW-10	54-1/8"	144-5/16"	113-3/8"	2	3" NPT	11,000 LBS

SERIES CA – SPLIT SYSTEM AIR COOLED DX UNIT

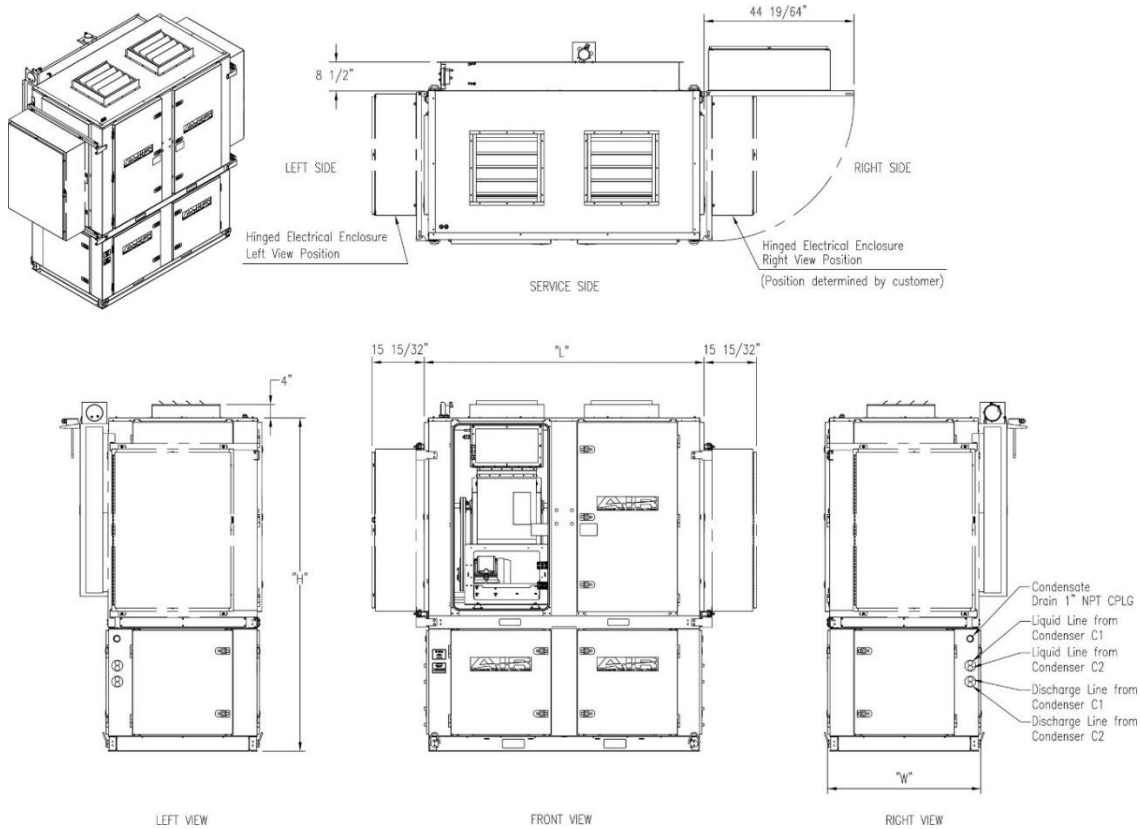
Series CA – Unit Capacities

SERIES CA PERFORMANCE												
Unit Size	CA-00	CA-01	CA-02	CA-03	CA-04	CA-05	CA-06	CA-07	CA-08	CA-09	CA-10	
SUPPLY FANS												
Nominal CFM (total)	2,025	3,700	4,050	5,400	7,200	9,000	10,800	12,600	15,900	18,225	21,250	
Blower Quantity	1	2	2	2	2	2	2	2	2	2	2	
Blower Motor Quantity / HP	43,832	43,863	43,864	43,864	43,866	43,866	2 / 7.5	2 / 7.5	43,871	43,876	43,881	
EVAPORATOR COILS												
Number of Rows	4	4	5	6	5	6	5	6	6	6	6	
Fins per Inch	10	10	10	10	10	10	10	10	10	10	10	
Face Area (ft ²)	7.5	12	12	12	20	20	28	28	36	40.5	47.25	
Coil Face Velocity (fpm)	270.0	308.3	337.5	450.0	360.0	450.0	385.7	450.0	450.0	450.0	449.7	
COMPRESSORS												
# of Ref. Circuits/Compressors	1	2	2	2	2	2	2	2	2	2	2	
Compressor Design	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	Recip	
Refrigerant Type	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a	
ENT. AIR	COOLING CAPACITY											
80°F DB 67°F WB	Total (btuh)	69,145	133,357	188,989	253,476	306,628	399,227	495,400	580,510	580,575	663,295	764,247
	Sensible (btuh)	50,663	94,575	123,518	166,140	206,782	267,035	324,356	382,989	420,709	481,362	557,637
75°F DB 62.5°F WB	Total (btuh)	62,600	120,649	174,434	232,423	278,294	361,522	448,472	529,118	527,991	602,678	701,638
	Sensible (btuh)	49,638	92,334	122,057	159,745	201,994	260,499	316,440	375,251	411,005	470,014	547,572
72°F DB 57.2°F WB	Total (btuh)	55,809	108,292	151,530	197,277	250,490	311,378	392,154	462,177	478,344	539,084	628,361
	Sensible (btuh)	53,654	100,356	128,353	164,837	218,246	274,092	334,724	396,806	449,364	510,684	595,363

- Capacities based on the air cooled condenser location 95°F condensing temperature.

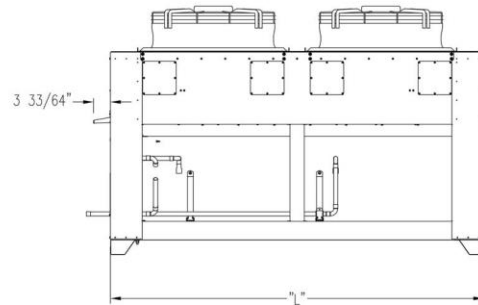
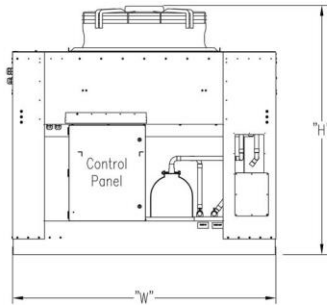
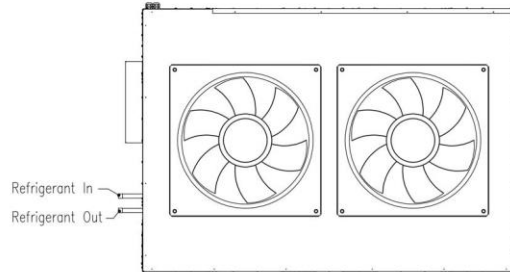
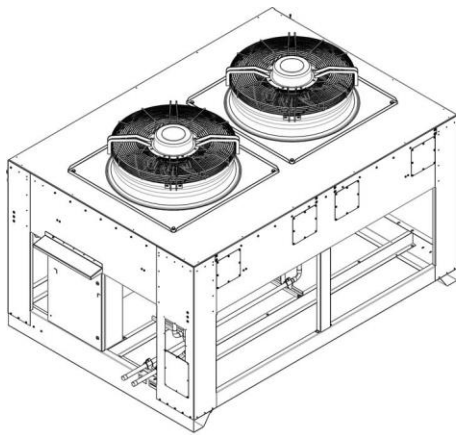
- Contact AIR's sales staff at info@air-eng.com for a detailed proposal based on your design conditions.

Series CA – Dimensional Info (AHU)



SERIES CA AHU DIMENSIONS					
UNIT SIZE	W	L	H	# OF CIRCUITS	SHIPPING WEIGHT
CA-00	45-1/4"	51"	86-1/2"	1	1,700 LBS
CA-01	45-1/4"	72"	86-1/2"	2	2,530 LBS
CA-02	45-1/4"	72"	86-1/2"	2	2,580 LBS
CA-03	45-1/4"	72"	86-1/2"	2	2,715 LBS
CA-04	45-1/4"	81-1/4"	98-1/2"	2	3,525 LBS
CA-05	45-1/4"	81-1/4"	98-1/2"	2	3,600 LBS
CA-06	48-1/4"	110-1/2"	100-1/4"	2	4,400 LBS
CA-07	48-1/4"	110-1/2"	100-1/4"	2	4,610 LBS
CA-08	54-1/8"	133-1/8"	100-1/4"	2	6,100 LBS
CA-09	54-1/8"	133-1/8"	113-3/8"	2	8,350 LBS
CA-10	54-1/8"	144-5/16"	113-3/8"	2	10,600 LBS

Series CA – Dimensional Info (Air Cooled Condenser)



SERIES CA AIR COOLED CONDENSER DIMENSIONS

UNIT SIZE	W	L	H	SHIPPING WEIGHT
CA-00	42	58	51	600 LBS
CA-01	52	75	54	800 LBS
CA-02	52	85	54	1050 LBS
CA-03	56	92	56	1350 LBS
CA-04	56	92	56	1350 LBS
CA-05	60	94	62	1700 LBS
CA-06	64	94	62	1800 LBS
CA-07	86	106	62	2400 LBS
CA-08	86	106	62	2400 LBS
CA-09	92	106	68	2750 LBS
CA-10	92	124	68	3100 LBS

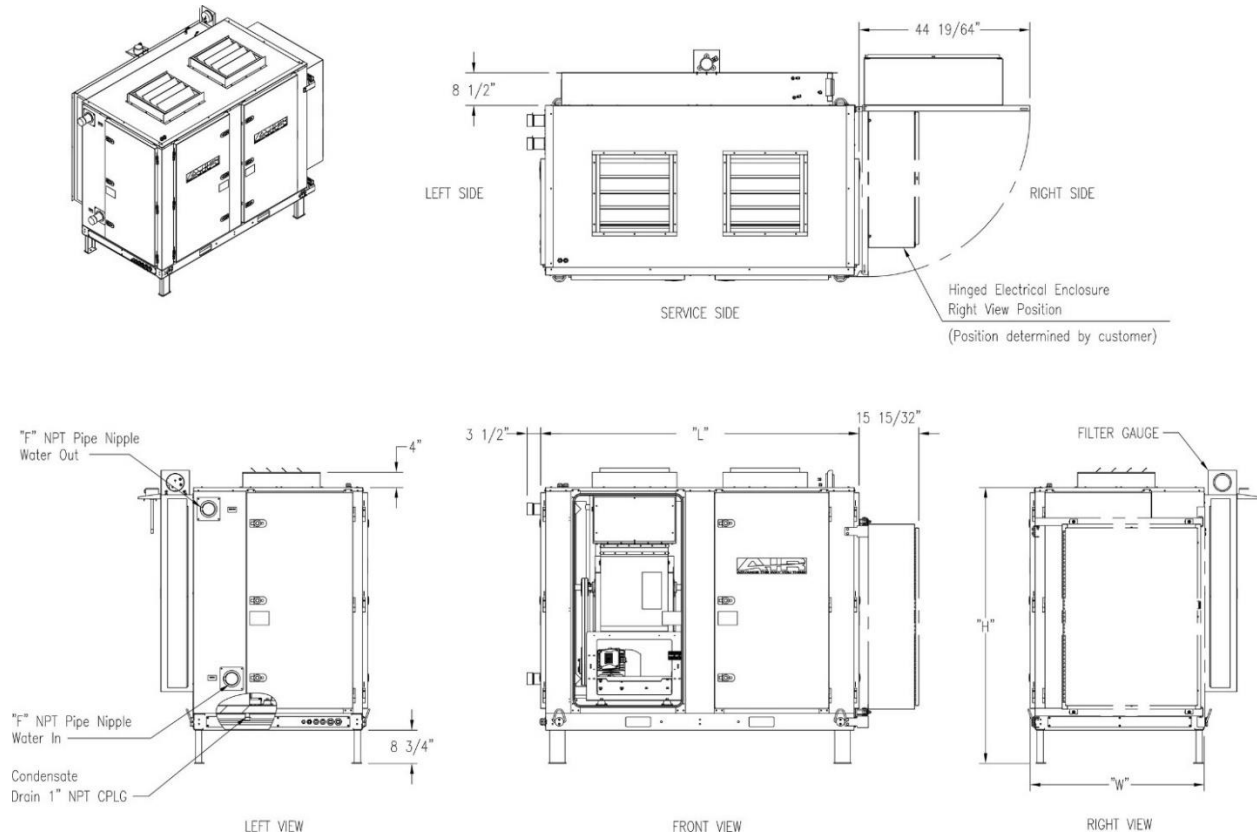
SERIES HW – CHILLED WATER AIR HANDLING UNIT

Series HW – Unit Capacities

SERIES HW PERFORMANCE												
Unit Size	HW-00	HW-01	HW-02	HW-03	HW-04	HW-05	HW-06	HW-07	HW-08	HW-09	HW-10	
SUPPLY FANS												
Nominal CFM (total)	2,025	3,000	4,050	5,400	7,200	9,000	10,800	12,600	15,900	18,225	21,250	
Blower Quantity	1	2	2	2	2	2	2	2	2	2	2	
Blower Motor Quantity / HP	2-Jan	2-Feb	3-Feb	5-Feb	5-Feb	5-Feb	2 / 7.5	2 / 7.5	10-Feb	15-Feb	15-Feb	
CHILLED WATER COILS												
Number of Rows	4	4	5	6	5	6	5	6	6	6	6	
Fins per Inch	10	10	10	10	10	10	10	10	10	10	10	
Face Area (ft ²)	7.5	12	12	12	20	20	28	28	35.3	40.5	47.3	
Coil Face Velocity (fpm)	270	250	338	450	360	450	386	450	450	450	450	
ENT. AIR	COOLING CAPACITY											
80°F DB 67°F WB	Total (btuh)	104,484	162,639	223,458	297,975	392,727	451,151	536,120	681,032	866,842	964,497	1,139,739
	Sensible (btuh)	67,483	103,554	141,734	189,094	249,846	294,783	350,972	434,749	551,984	619,565	729,220
	Flow (gpm)	23.0	32.0	45.0	60.0	78.0	90.0	110.0	135.0	160.0	192.0	220.0
75°F DB 62.5°F WB	Total (btuh)	81,441	118,237	175,041	219,504	289,523	332,055	426,388	500,884	634,544	710,488	841,188
	Sensible (btuh)	59,616	87,233	122,339	160,524	212,322	252,102	314,760	369,356	467,204	527,836	621,285
	Flow (gpm)	22.0	23.0	33.0	44.0	58.0	66.0	112.0	100.0	116.0	145.0	166.0
72°F DB 57.2°F WB	Total (btuh)	59,622	87,861	118,662	155,910	206,119	253,385	316,901	369,965	456,283	537,462	618,723
	Sensible (btuh)	57,025	84,182	114,072	150,995	199,647	247,841	304,447	356,211	442,715	543,787	597,605
	Flow (gpm)	22.0	23.0	28.0	33.0	45.0	62.0	112.0	90.0	90.0	145.0	145.0

- Chilled water flow based on entering at 42°F, leaving 52°F.
- Contact AIR's sales staff at info@air-eng.com for a detailed proposal based on your actual design conditions.

Series HW – Dimensional Info



SERIES HW DIMENSIONS					
UNIT SIZE	W	L	H	F	SHIPPING WEIGHT
HW-00	45-1/4"	51"	62-1/2"	1-1/2" NPT	1,400 LBS
HW-01	45-1/4"	72"	62-1/2"	1-1/2" NPT	1,900 LBS
HW-02	45-1/4"	72"	62-1/2"	2" NPT	2,200 LBS
HW-03	45-1/4"	72"	62-1/2"	2" NPT	2,350 LBS
HW-04	45-1/4"	81-1/4"	71-1/2"	2-1/2" NPT	2,500 LBS
HW-05	45-1/4"	81-1/4"	71-1/2"	2-1/2" NPT	2,650 LBS
HW-06	48-1/4"	110-1/2"	71-1/2"	3" NPT	3,100 LBS
HW-07	48-1/4"	110-1/2"	71-1/2"	3" NPT	3,500 LBS
HW-08	54-1/8"	133-1/8"	71-1/2"	3" NPT	5,050 LBS
HW-09	54-1/8"	133-1/8"	82"	3" NPT	5,750 LBS
HW-10	54-1/8"	144-5/16"	82"	3" NPT	6,400 LBS

Air Conditioning Products



CoolAIR
Cooling only
7.5 to 60 tons



PreciseAIR
Humidity control
to 72°F/40% RH
7.5 to 60 tons



ControlAIR
Humidity control
to 72°F/40% RH
Highest level of
reliability
3 to 60 tons

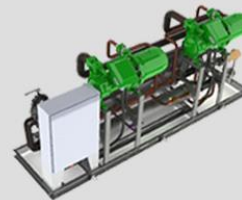
Chiller Products



ModulAIR
Modular chiller
with reciprocating
compressors
8 to 55 tons
per module



ModulAIR
Modular chiller
with reciprocating
compressors
10 to 40 tons
per module

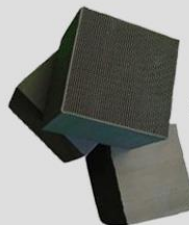


**Rotary Screw
Chiller**
Air or water cooled
chillers with
rotary screw
compressors
Up to 300 tons

Carbon Filtration Products



AdsorbAIR
Vertical upflow tub
vapor adsorber with
pellet media



MatrixAIR
Vapor adsorber with
matrix media



RecircAIR
Room recirculation
unit, pellet or matrix
media designs

Advance Industrial Refrigeration, 1765 Tobacco Rd., Augusta, GA, 30906

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