

CCA Series

Outdoor Air-Cooled Condensers

Available on DRY-O-TRON® Models:

- Pool models DS/DSV/RS 010 to 040
- Non-pool models DA5/DV5/RA5 010 to 040
- General purpose models:
 - DA3 007 to 024 &
MAM-016 to 060
- 100% Outdoor air models DK/RK 010 & DK/RK015

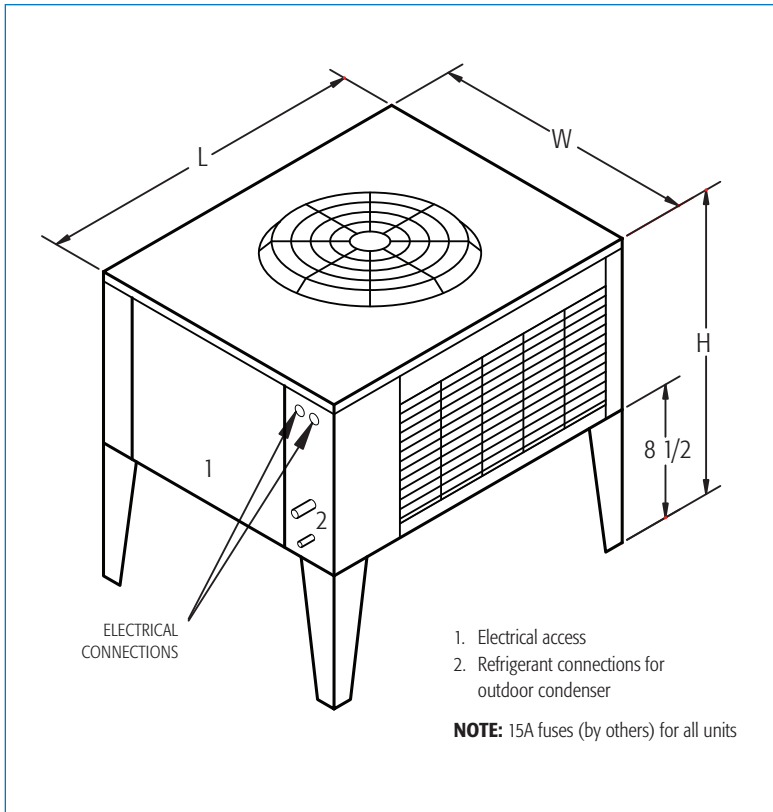
The CCA line of outdoor air-cooled condensers is specifically designed for use with Dectron DRY-O-TRON® dehumidifiers up to eight tons, that are equipped with the air-cooled air conditioning option.

As both noise reduction and esthetics are major design considerations, the CCA Series incorporates an air-outlet venturi with recessed fan blades for extremely quiet operation, and is housed in an attractive high-quality painted cabinet.

Due to the unique heat rejection sequences of every DRY-O-TRON®, the CCA Series is also designed for a low refrigerant pressure drop and low refrigerant charge.

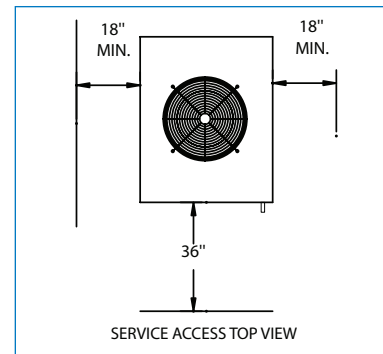


CCA Dimensions and Electrical Data:

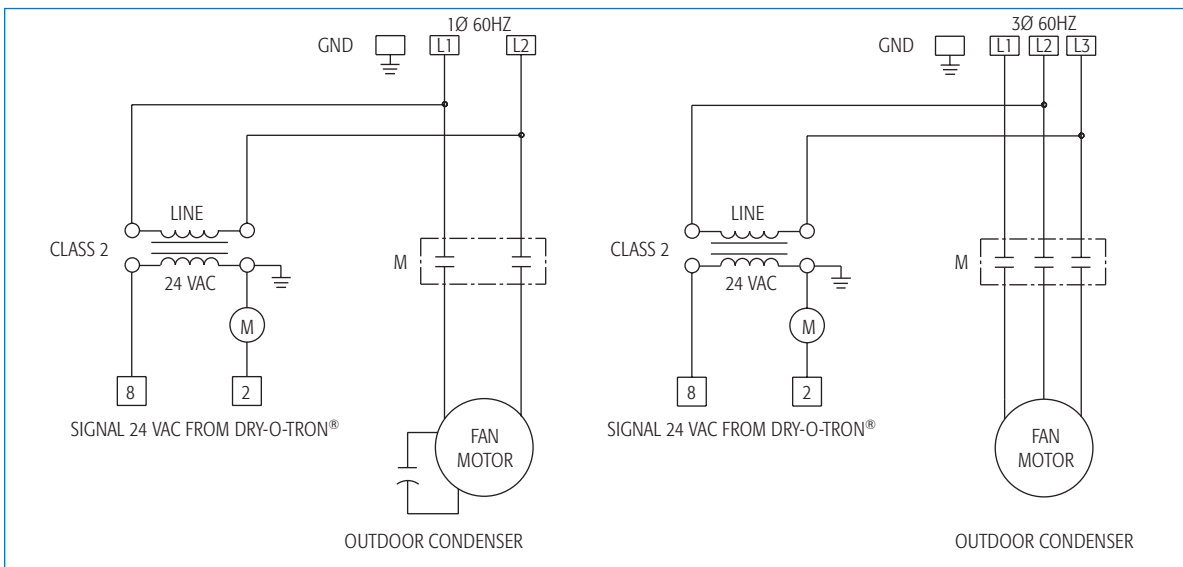


CCA Features:

- Exceptionally quiet, low-RPM motor
- Powder-painted cabinet for style and durability
- Heavy-duty construction
- Nine-inch (23 cm) legs for extra ground clearance
- Electrical and refrigerant connections on same side
- Two coils provide large heat transfer surface
- Three-inch (7.6 cm) formed venturi for reduced airflow noise
- Fan and coil guards



CHECK BOX (✓)	MODEL	L	W	H	REFRIGERANT CONNECTIONS		FAN MOTOR								APPROX. WEIGHT
					HOT GAS	LIQUID	208/230V 1Ø		208/230V 3Ø		460V 3Ø		575V 3Ø		
							HP/MCA	RPM	HP/MCA	RPM	HP/MCA	RPM	HP/MCA	RPM	
	CCA-002	36"	28"	26 1/2"	5/8 O.D.	1/2 O.D.									150 LB.
	CCA-003	36"	28"	26 1/2"	5/8 O.D.	1/2 O.D.	1/4 HP	825							160 LB.
	CCA-004	36"	28"	37 1/2"	7/8 O.D.	5/8 O.D.	2.1 AMP		1/3 HP	900	1/3 HP	900	1/3 HP	900	213 LB.
	CCA-005	36"	28"	37 1/2"	7/8 O.D.	5/8 O.D.			3.2 AMP		1.6 AMP		1.3 AMP		235 LB.
	CCA-006	36"	32"	42 1/2"	7/8 O.D.	5/8 O.D.	1/3 HP	825							248 LB.
	CCA-007	45"	32"	42 1/2"	7/8 O.D.	5/8 O.D.	3.0 AMP								275 LB.
	CCA-008	45"	32"	42 1/2"	7/8 O.D.	7/8 O.D.	1/2 HP	1075	1/2 HP	1140	1/2 HP	1140	1/2 HP	1140	290 LB.
							3.2 AMP		3.4 AMP		1.7 AMP		1.0 AMP		



CCA Heat Rejection:

Model	Total Heat Rejection MBH (R-22, R-134A)* Temperature Difference					
	1°F	10°F	15°F	20°F	25°F	30°F
CCA-002	1.30	13.0	19.5	26.0	32.5	39.0
CCA-003	1.61	16.1	24.1	32.1	40.2	48.2
CCA-004	2.31	23.1	34.6	46.2	57.7	69.3
CCA-005	2.77	27.7	41.5	55.3	69.2	83.0
CCA-006	3.05	30.5	45.8	61.0	76.3	91.5
CCA-007	3.33	33.3	49.9	66.6	83.2	99.9
CCA-008	4.44	44.4	66.6	88.8	111.0	133.2

* Performance at sea level

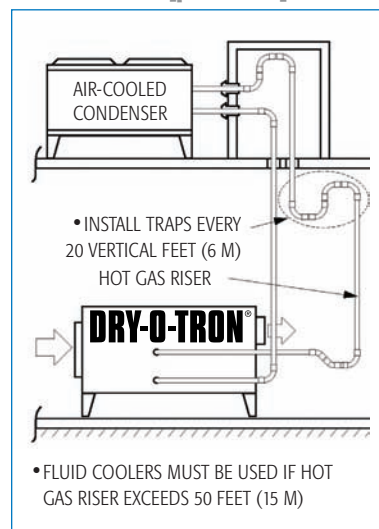
Altitude Correction Factors:

Altitude (ft.) (m)	1000 304.8	2000 609.6	3000 914.4	4000 1219.2	5000 1524.0	6000 1828.8	7000 2133.6
FACTOR	0.977	0.955	0.934	0.913	0.893	0.873	0.854

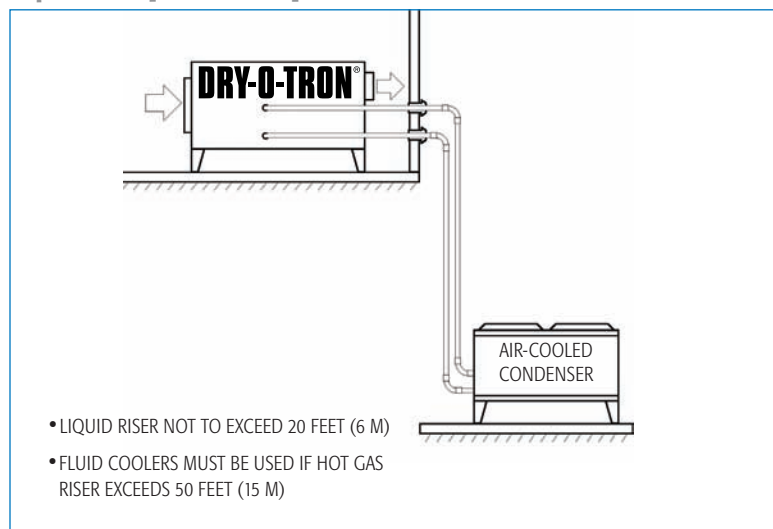
Suggested Refrigerant Piping:

- Line lengths should be kept short to minimize total system charge.
- Fluid coolers must be used for line lengths greater than 100 feet (30 m).
- Liquid risers require more liquid sub-cooling. Check condenser selection with the factory.

Hot Gas Riser [preferred]



Liquid Riser [less efficient]





CCA General Specifications:

Scope

- Standard outdoor mounted vertical airflow, single circuit outdoor air-cooled condensers.

Quality and Safety Assurance

- Unit shall be designed to conform to UL and CSA standards.
- Coils shall be UL Recognized/ Listed, ETL Listed, or CSA Certified.
- Motor shall be UL Recognized/ Listed or CSA Certified.
- Manufacturers of the outdoor air-cooled condenser shall have a minimum of five years experience in the production of outdoor air-cooled condensers.

Submittals

- Overall dimensions, drawings, field wiring diagrams, and product data, including total power consumption and total heat rejection capacity per performance schedule shall be submitted.
- Basis of unit selection and performance, with supporting documents, shall be furnished with bid.
- Electrical wiring diagrams, installation and maintenance instructions shall be supplied with each unit.

Products:

Furnish and install an outdoor air-cooled condenser

- Performance and specifications shall meet or exceed those shown on the equipment schedule.

Cabinet

- Cabinet shall be constructed of heavy-duty satin-coated galvanized steel, painted with a white heat-cured epoxy-based powder coat paint with UV stabilizers, and assembled with plated hardware for corrosion resistance.
- Cabinet shall be provided with 3-inch (7.5 cm) formed venturi for minimum noise and maximum efficiency.

Coils

- Coils shall be constructed of seamless deoxidized heavy-wall smooth copper tubing mechanically expanded into continuous full-collared plate-type aluminum corrugated fins for permanent bond and maximum heat transfer.
- Connections and bends shall be brazed with high-temperature alloy.

- Coils shall be factory pressure and leak tested at 400 psig and purged using -40°F (-40°C) dew point dry air. Coils shall be provided with sweat-type connections, and shall be sealed and pressurized to 10 psig dry air.

OPTIONAL (seacoast applications)

- Aluminum fins shall be coated with HyPoxy® for protection against common acids, salt, and gases. Coating shall comply with ASTM B117/D1654 and ASTM D2126 for corrosion resistance.

Fan

- Fan shall be aluminum propeller-blade type riveted to a steel hub. It shall be statically and dynamically balanced for smooth and vibration-free operation, and tested before shipping to ensure quiet operation.
- Fan diameter shall not exceed 20 inches (51 cm).

Fan and Coil Guard

- Fan-guard construction shall be heavy-gauge, close-meshed steel wire, welded for full protection from moving parts, coated with a baked-on powder epoxy for corrosion protection.

Motor

- Motor shall be low-RPM, heavy-duty PSC drip-proof type with permanently lubricated ball bearings and built-in overload protection.
- Motor shall be factory wired with leads terminating in a weather-tight enclosure. Motor shall be mounted in a rigid wire basket.

Controls

- All units shall be provided with terminal blocks for easy field installation. Terminals shall be clearly identified to match wiring diagram supplied with the unit. Controls shall include factory-wired 24V transformer and contactor for full automatic operation with the DRY-O-TRON® unit.

Execution:

Unit Selection

- All costs associated with deviation from the specifications shall be borne entirely by the contractor.

Product Delivery and Handling

- Unit shall be handled carefully to prevent damage, breakage, denting, and scoring. Damaged units or damaged components shall not be installed. All damaged parts shall be replaced with new parts from the manufacturer.
- All manufacturer's rigging and installation instructions shall be complied with for unloading the unit and moving it to the final location.

Installation

- The work shall be executed in accordance with the specifications and the manufacturer's instructions. Work shall be done only by a technician experienced in this type of work.

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