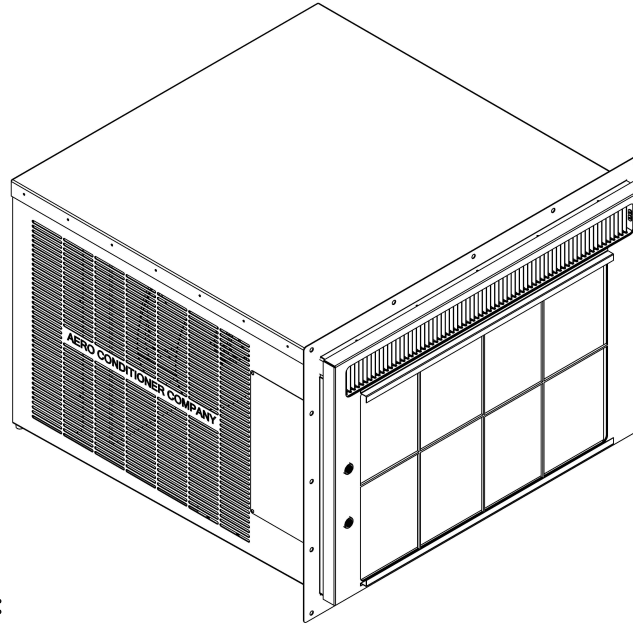




AERO
CONDITIONER COMPANY, LLC.

Hazardous & Harsh-Duty
Air Conditioners and Drinking Water
Engineered for Extreme Industrial & Military Conditions

HARSH and HAZARDOUS-DUTY AIR CONDITIONER LWCHN-120-ADE-304-C1



Unit Technical Specifications :

Standard Electrical Options:

(Other configurations available upon request)

V: 208-230 Volts / 60 Hz / 1 Phase

F: 220-240 Volts / 50 Hz / 1 Phase

5: 208-230 Volts / 60 Hz / 3 Phase & 220-240 Volts / 50 Hz / 3 Phase

D: 460 Volts / 60 Hz / 3 Phase & 380-420 Volts / 50 Hz / 3 Phase

E: 575 Volts / 60 Hz / 3 Phase

Electrical Specifications:

(@ 460 Volts / 3 Phase / 60 Hz)

- Compressor (Hermetically sealed scroll type): 22 Amps
- Evaporator Blowers: 4.8 Amps
- Condenser Blowers: 10 Amps
- **Minimum Circuit Ampacity (MCA): 47 Amps (Estimate)**
- **Maximum Overcurrent Protection (MOP): 80 Amps (Estimate)**

Cooling Capacity rated at **110°F** (43°C): 120,000 BTU/H (35.2 KW/HR)

Construction:

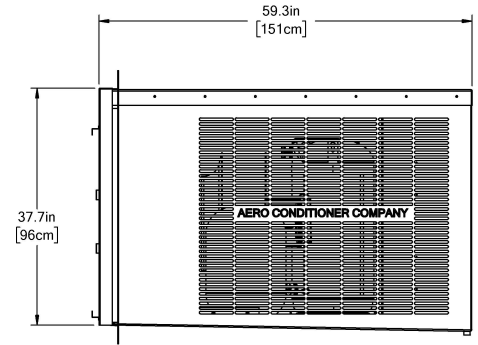
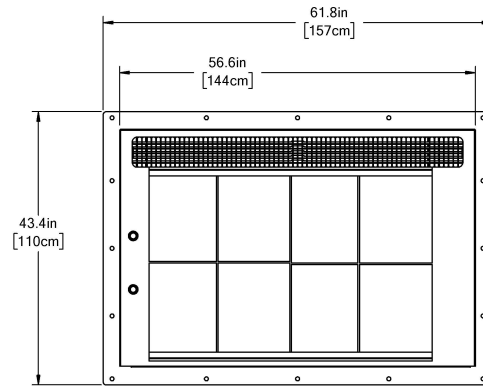
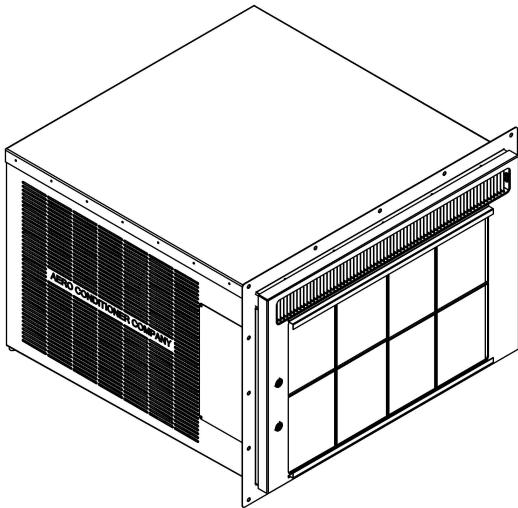
- All sheet metal parts are heavy gauge and constructed of 304 stainless steel.
316 stainless steel and aluminum construction available upon request
- Mechanical controls only – eliminate vulnerability of electronics to electrical problems and allows substitution of parts.
- Units meet **NEMA 4X** and **IP54** standards.
- Hot-gas bypass to enable sub-freezing evaporating temperatures
- Condenser and evaporator protected with anti-corrosion epoxy coating (e-coat) applied electrostatically in an immersion bath and then oven cured. Tubing is also protected from corrosion.
- Fins on condenser and evaporator contain no more than 10 fins per inch (with fewer as an option) to help prevent clogging by letting particles pass through.
- Side access opening behind evaporator to enable cleaning it from behind the coil.
- 24-Volt dry contacts standard for connection to your remote thermostat or centralized system.



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Capacity at 45° F (7.2° C) Evaporating Temperature			
Ambient Temp (°F)	Ambient Temp (°C)	Btu/HR	KW/HR
110	43	120000	35.2
95	35	144000	42.2

Additional Features & Options:

- Designed and manufactured to UL 1995 / CSA-C22.2 No.236 and UL 1203 standards.
- An easily removable and cleanable, electro-statically charged, polypropylene air filter (for the return air) slides into custom front-mounted brackets.
- Options include built-in 2.5 KW - 20 KW corrosion-resistant incoloy tubular heating elements or a finned-tubed T3B (hazardous duty) electrical-resistance heater, with or without humidistat to better control humidity.
- Standard models run on 60 Hz three-phase current. Most units can be adapted to compensate for capacity lost at 50 Hz or to operate on special voltages.
- Units can be made suitable for hazardous (**explosive**) locations classified as: Class I Groups B, C or D, Class II Groups E, F or G, or Class III, Divisions/Zones 1 or 2. Evaporating and condensing sections can be designed for areas classified differently.
- Six configurations are available, all made with the same cooling capacities and to the same harsh-duty standards: **1)** Through-the-wall (Window); **2)** Ductless-Split; **3)** Roof-Mount; **4)** Vertical; **5)** Mobile **6)** Container (Interior)

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