HAZARDOUS LOCATION ROOM AIR CONDITIONERS

THE EXPERTS IN ROOM AIR CONDITIONING



50/60 HERTZ MODELS



Hazardgard[®]

UL LISTED for CLASS 1, DIV 2, GROUPS A, B, C and D.

CERTIFIED

in accordance with ISA 12.12.01 and NFPA 70 (NATIONAL ELECTRIC CODE), ANSI/UL 484 Room Air Conditioners

KSA REGISTERED and TESTED in accordance with SASO 2681



HAZARDOUS LOCATION ROOM AIR CONDITIONERS



Hazardgard® is specifically designed to cool living quarters, storage areas and other enclosures situated in hazardous locations, where specific volatile flammable liquids or gases are handled or used within enclosed containers or systems.

Hazardgard meets T4 temperature classification means unit surface temperatures will not rise above 135° C/275° F. (note: 50/60Hz model listed as T4A for surface temperatures to 120° C/248° F. Operates at low ambient conditions without freezing at outdoor ambient temperatures as low as 7° C/45° F. Tolerates higher outdoor temperatures up to 55° C $/130^{\circ}$ F.

Equipment is certified in accordance with ISA 12.12.01 and NFPA 70 (National Electric Code)

ARTICLE 501	ARTICLE 505
Class I, Div. 2, Group A and Group B	Class I, Zone 2, Group IIC
Class I, Div. 2, Group B	Class I, Zone 2, Group IIB plus hydrogen, or "+H2"
Class I, Div. 2, Group C	Class I, Zone 2, Group IIB
Class I, Div. 2, Group D	Class I, Zone 2, Group IIA

Equipment is certified in accordance with ANSI/UL 484 and SASO 2681

For more than 30 years, Hazardgard has endured some of the toughest and most unforgiving operating conditions imaginable. Time-tested in the field where it counts, Hazardgard is trusted by professionals who have to get the job done.

International 19500 to 20500 Btu

9.0 EER

22-gauge, G60 steel air conditioner cabinet is powder coated for corrosion protection and to withstand years of hard use.

Totally enclosed, heavy-duty motors have a hermetically sealed overload for arc-free operation.

FEATURES

- Permanent split capacitor motor
- Hermetically sealed refrigeration system
- Environmentally sealed on/off switch and gold plated contacts in thermostat for corrosion resistance
- Solid-state control relays for compressor and fan operation
- Hot gas bypass allows the air conditioner to operate at low ambient conditions without freezing at outdoor temperatures as low as 45° F [7°C]
- Hermetically sealed reciprocating compressor is cooled during the refrigeration cycle, which allows the unit to tolerate higher outdoor temperatures up to 130° F (55°C)
- Larger, commercial grade, enclosed fan motor with hermetically sealed overload for arc-free operation.
 Totally enclosed to assure efficient operation under adverse electrical conditions
- Unit utilizes field supplied, direct-wired, 15-amp circuit with time-delay fuse that will tolerate current surge without tripping the breaker
- 22-gauge, G60 steel air conditioner cabinet is powder coated for corrosion protection and to withstand years of hard use
- High density EPS foam insulation for thermal resistance and sound control
- Heavy duty hexacomb packaging resists damage during shipment and is environmentally friendly



MODEL SH24M20

 ElectroFin® 5-stage, immersion ecoat process on 100% of metallic surfaces on the outdoor coil provides outstanding corrosion resistance protection in coastal or corrosive environments

ELECTROFIN BENEFITS:

- Excellent adhesion characteristics
- Less than 1% thermal degradation
- Outstanding chemical resistance
- Passed 6048 hrs.ASTM B-117 Salt Spray

ELETROFIN MEETS THE FOLLOWING:

- MIL-C-46168 Chemical Agent Resistance -DS2, HCI Gas
- CID A-A-52474A (GSA)
- MIL-STD 810F, Method 509.4 (Sand and Dust)
- MIL-P-53084 (ME)-TACOM Approval
- MIL-DTL-12468 Decontamination Agent (STB)
- DPG (Douglas Proving Grounds) Soil & Water Exposure Tests
- GM9540P-97 Accelerated Corrosion Test (120 cycles)
- ASTM B117-G85 Modified Salt Spray (Fog) Testing-2,000 hours
- ASTM B117 Salt Spray (tested by ARL for Lockheed Martin)

MODELS SH15M30A, SH20M30A, SH20M50A

• Diamonblue™ Advanced Corrosion Protection on the outdoor coil protects the coil against deterioration and extends the life of the unit especially in coastal or corrosive environments



5-stage ecoat





APPLICATIONS

Built to perform in the harshest environments

- Offshore oil rigs, on-shore oil company offices and refineries
- Petrochemical sites and propane fill-up stations
- Paint and varnish storage or processing plants
- Grain alcohol processors or storage sites
- Plant areas using strong solvents or chemicals
- Munitions plants or armories
- PVC or plastics plants and processing points
- Recycling plants
- Furniture refinishing/stripping workshops
- Fertilizer plants
- Office complexes where methane is a byproduct
- Hazardous materials storage
- Container labs
- For analyzer houses/shelters



Hazardgard[®]

		Elec	trical Characte	ristics	Energy						
	Cooling Capacity Btu/Hr. Volts Rate		Cooling Coo		Efficiency Ratio	Moisture Removal	Air Direction Controls	Air Circulation	Refrigerant		
Model			Amps	Watts	EER	Pints/HR		CFM			
60 HERTZ -NORTH AMERICA											
SH15M30A	14500/14000	230/208	6.9/7.5	1495/1443	9.7/9.7	6.0	8-way	375	R-410A		
SH20M30A	20000/19000	230/208	8.7/9.6	2125/2021	9.4/9.4	4.0	8-way	375	R-410A		
SH24M30	24000/23700	230/208	12.6/13.5	2727/2788	8.8/8.5	8.0/7.5	8-way	385	R-401A		
50 HERTZ -INTERNATIONAL											
SH20M50A	19500/19100	240/220	9.8/10.3	2167/2156	9.0/9.0	5.6/5.5	8-way	425	R-410A		
SH24M30	20500	220	13.2	2412	8.5	7.0	8-way	360	R-410A		

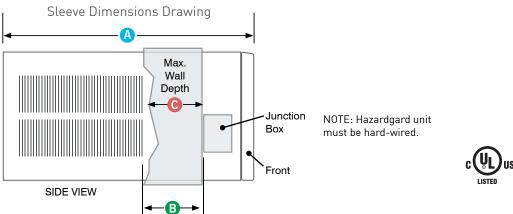
Installation Information

	Dimensions INCHES							w Width :HES	In-Wall Installation Finished Hole INCHES			Circuit Rating Breaker or T - D Fuse	Weight Lbs.	
Model	Height	Width	Depth with Front	Depth J Box to Louvers B	Minimum Extension Into Room	Minimum Extension Outside	Min.	Max.	Height	Width	C Max. Depth	Volts - Amps	Net	Shipping
SH15M30A	15 ¹⁵ /16"	25 ¹⁵ /16"	27 ³ /8"	6"	3 1/16"	16 ¹⁵ /16"	27 7/8"	42"	16 ³ /16"	26 ³ /16"	6"	250V-15	140	167
SH20M30A	17 ¹⁵ /16"	25 ¹⁵ /16"	27 3/8"	6"	3 1/16"	16 ¹⁵ /16"	27 7/8"	42"	18 ³ /16"	26 3/16"	6"	250V-15 (230V)	166	170
												250V-20 (208V)		
SH20M50A	17 ¹⁵ /16"	25 ¹⁵ /16"	27 3/8"	6"	3 1/16"	16 ¹⁵ /16"	27 7/8"	42"	18 ³ /16"	26 ³ /16"	6"	250V-15	171	175
SH24M30	17 ¹⁵ /16"	25 ¹⁵ /16"	27 3/8"	6"	3 1/16"	16 ¹⁵ /16"	27 7/8"	42"	18 ³ /16"	26 ³ /16"	6"	250V-30	180	185

Due to continuing engineering research and technology, specifications are subject to change without notice. Manufactured under U.S. Design Patent DES 368, 306 decorative front; Utility Patent 5, 622, 058. MAXIMUM outdoor ambient operating temperature is 130°F. (55°C) MAXIMUM TEMPERATURE RATING FOR CLASS I, DIVISION 2, GROUPS A,B,C,D.

For global applications, Hazardgard cooling capacities are tested in a certified laboratory at moderate (T1*) and hot (T3*) climate conditions in accordance with SASO (Saudi Arabian Standards Organization) Standard 2681. SASO Standard 2681 is adopted from ISO Standard 5151 for testing and rating for performance of non-ducted air conditioners and heat pumps.

^{*} Capacity and efficiency values at each climate conditions are available upon request.







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