

Hazardgard® Hazardous Location ROOM AIR CONDITIONERS

PURCHASER	P.O.#	DATE	
PROJECT	LOCATION		
ENGINEER	ARCHITECT		
SUBMITTED BY	FOR APPROVAL	FOR REFERENCE	

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

FEATURES

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*

- Direct wire connection
- Utilizes direct-wired, 15-amp circuit with time-delay fuse
- Hermetically sealed refrigeration system
- 22 gauge steel cabinet
- Larger, commercial grade fan motor with hermetically sealed overload for arc-free operation
- Permanent split capacitor and totally enclosed fan motor
- Enclosed fan motor has hermetically sealed overload for arc-free operation
- Stainless steel fan shaft
- 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

COILS COATED FOR CORROSION RESISTANCE

MODEL SH24N30A

 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

ELECTROFIN 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, SH20M30SA, SH20M50B, HCM15A30A, HCM20A30A

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.

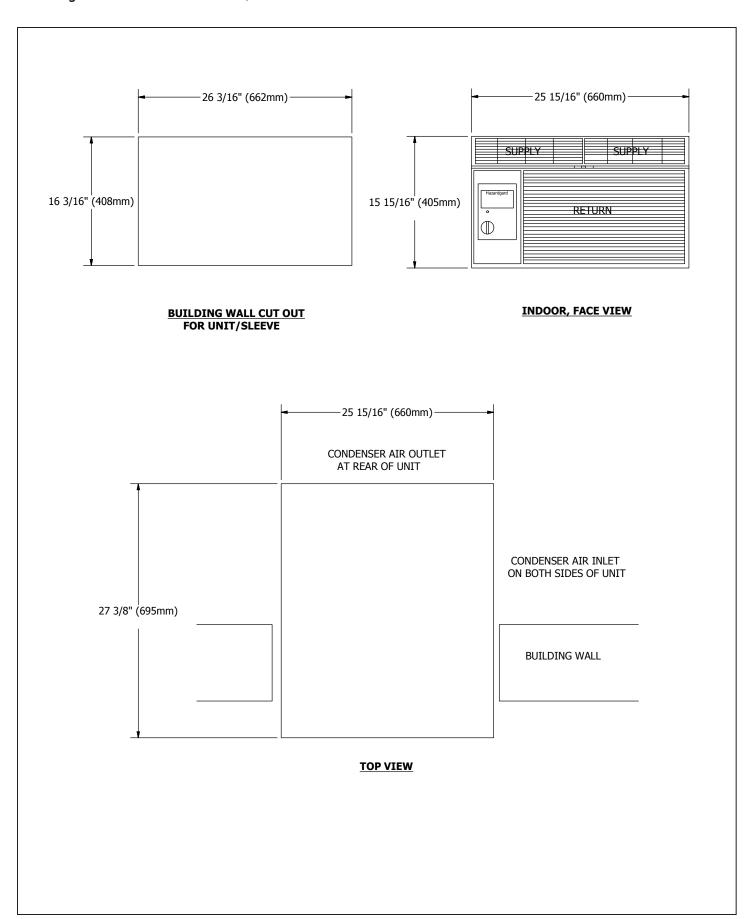






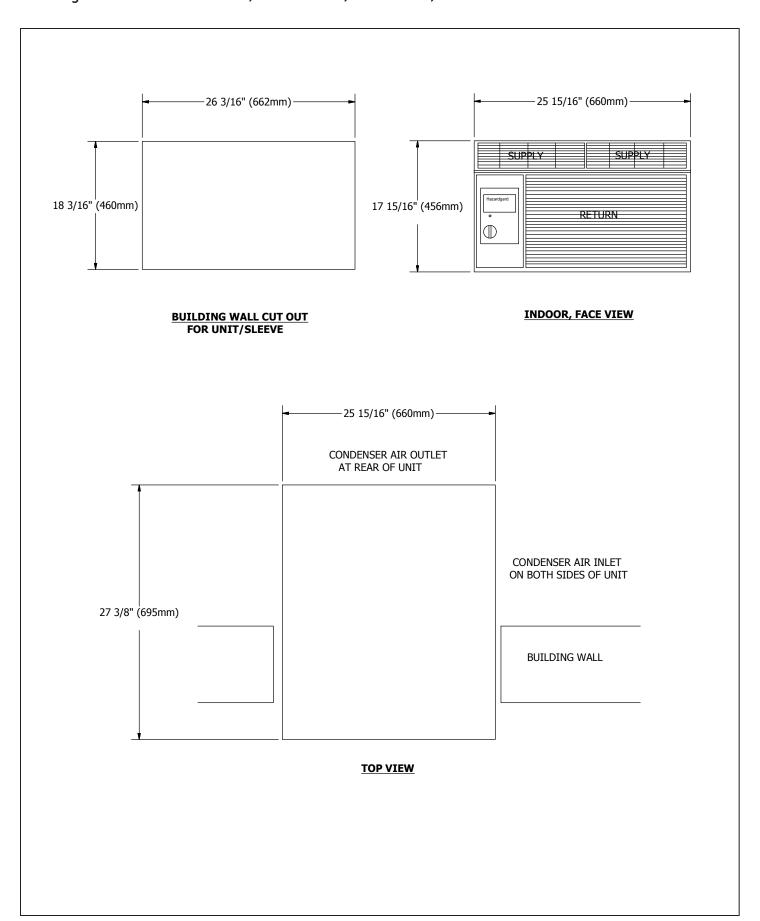
Installation: Wall Cut Out & Chassis Dimensions

Hazardgard Model: HCM15A30A, SH15M30A



Installation: Wall Cut Out & Chassis Dimensions

Hazardgard Model: HCM20A30A, SH20M30SA, SH20M50B, SH24N30A



SPECIFICATIONS

	Cooling	Electrical Characteristics			Circuit Rating Breaker or	Energy			
				Cooling	T - D Fuse	Efficiency	Moisture	Air	
Model	Capacity Btu/Hr.	Volts Cooling Capacity Rated Amps (KW)		Volts - Amps	Ratio EER	Removal Pints/ Hr	Circulation CFM	Refrigerant	
60 HERTZ									
SH15M30A	15,700/15,700	230/208	7.9/7.8	4.60/4.10	250V-15	9.7/9.7	4.0	375	R-410A
HCM15A30A	15,000	230/208	7.0/7.3	4.4	250V-15	10.2	5.0	375	R-32
HCM20A30A	20,000	230/208	10.0/10.7	5.86	250V-20	10.0	7.5	375	R-32
SH20M30SA	19,000/19,000	220	8.5	5.57	250V-20 (230V) / 250V-20 (208V)	9.7/9.6	5.5	375	R-410A
SH24N30A	24,000/24,000	230/208	11.8	6.8	250V-20	9.7/8.5	8.0/7.5	385	R-410A
50 HERTZ									
SH20M50B	21,000/19,100	240/220	11.6/10.3	6.15/6.15	250V-15	8.8/8.8	7.0/7.0	425	R-410A

INSTALLATION INFORMATION

		Dimensions Inches						Window Width Inches		In-Wall Installation Finished Hole Inches			Weight Lbs.	
Model	Height	(A) Width	Depth with Front B	Depth J Box to Louvers	Minimum Extension Into Room	Minimum Extension Outside	Min.	Max.	Height	Width	C Max. Depth	Net	Shipping	
SH15M30A/HCM15A30A	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"	140	167	
HCM20A30A	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"	166	198	
SH20M30SA	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"	166	170	
SH24N30A	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"	180	185	
SH20M50B	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"	171	175	

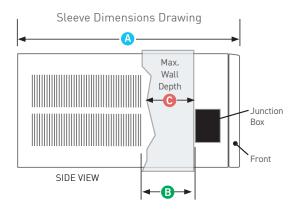
Due to continuing engineering research and technology, specifications are subject to change without notice.

U.S. MAXIMUM outdoor ambient operating temperature is 115°F. (46°C) MAXIMUM TEMPERATURE RATING FOR CLASS 1, DIVISION 2, GROUPS A, B, C, D.

Capacity and efficiency values at each climate conditions are available upon request.

NOTE: Hazardgard unit must be hard-wired.

Manufactured under Design Patent DES 368, 306 decorative front; Utility Patent 5, 662, 058.









HAZARDGARD SUBMITTAL (REV 07-23-25)