

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

- 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, HCl 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.

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

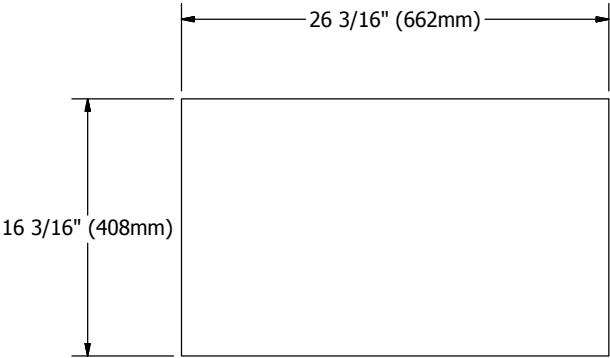
and TESTED in accordance with
SASO 2681*



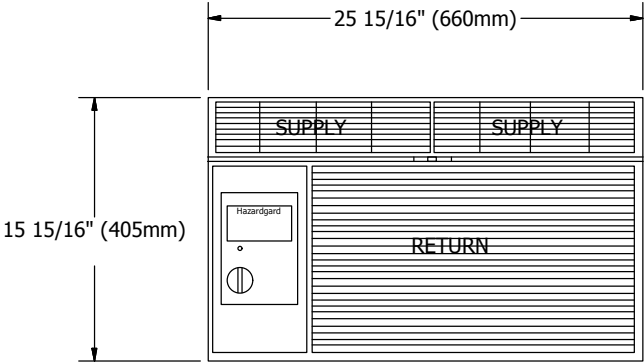
HCM R32 Models Only

Installation: Wall Cut Out & Chassis Dimensions

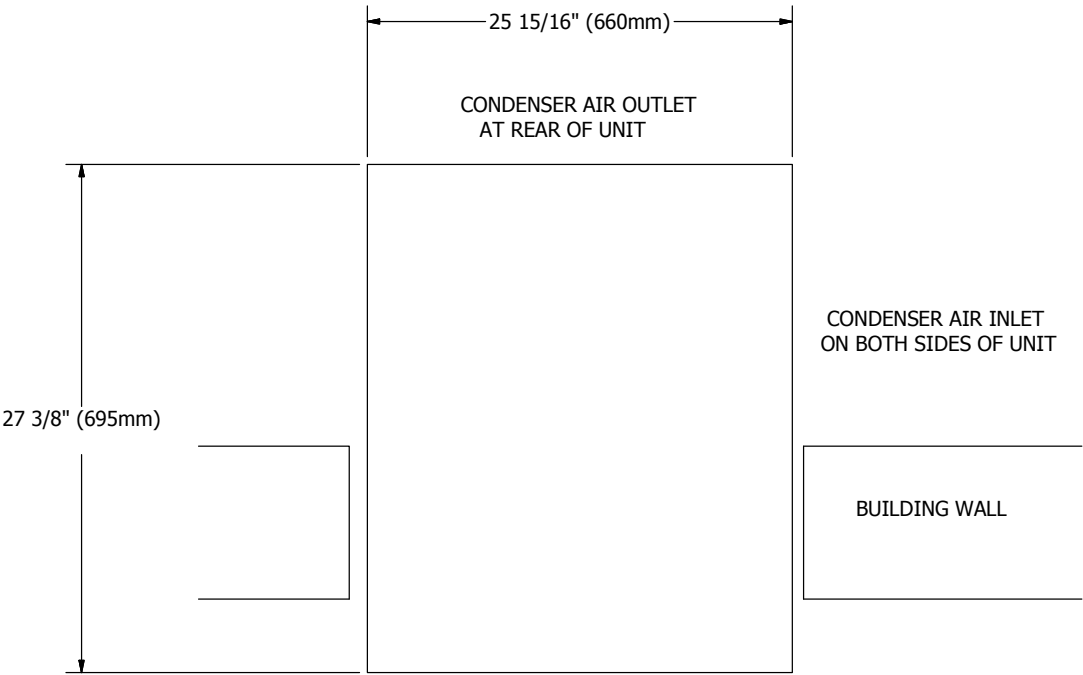
Hazardgard Model: HCM15A30A, SH15M30A



**BUILDING WALL CUT OUT
FOR UNIT/SLEEVE**



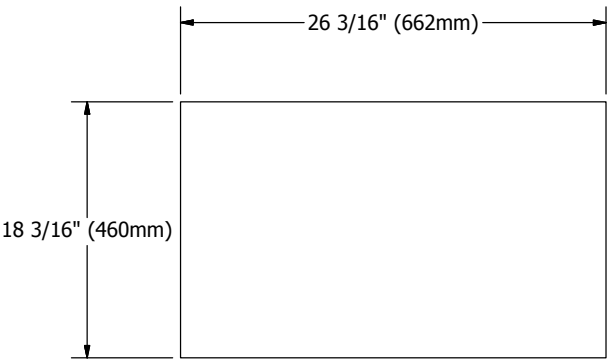
INDOOR, FACE VIEW



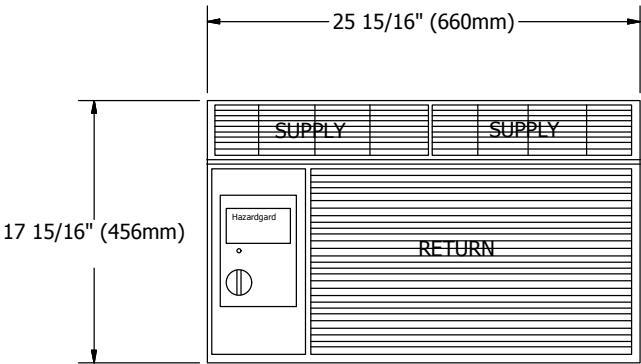
TOP VIEW

Installation: Wall Cut Out & Chassis Dimensions

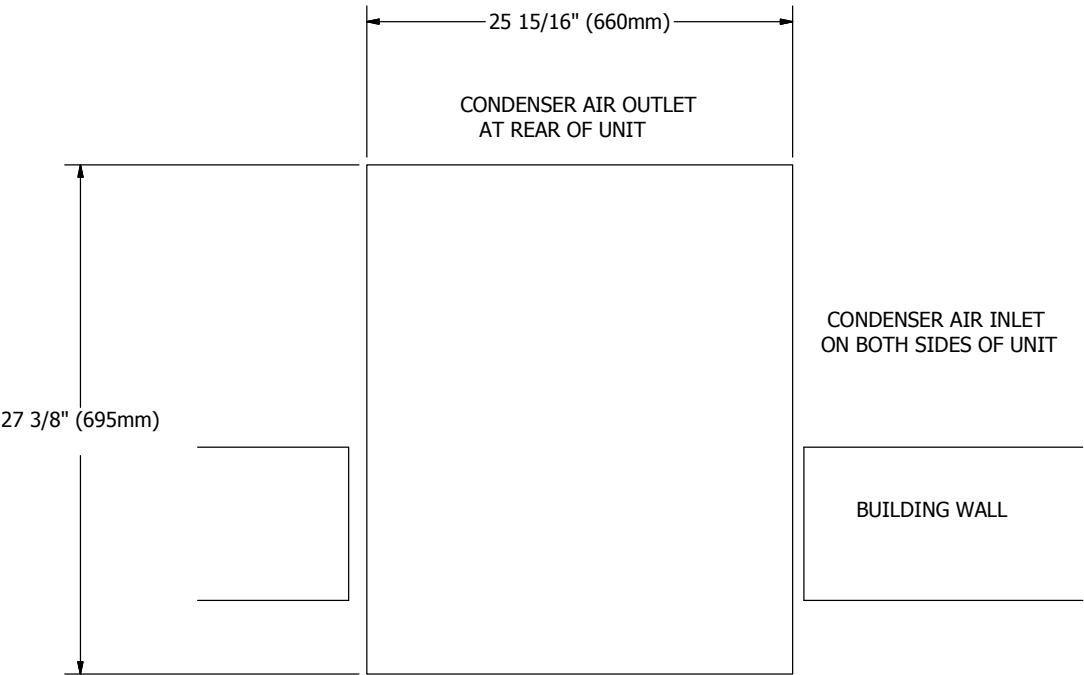
Hazardgard Model: HCM20A30A, SH20M30SA, SH20M50B, SH24N30A



**BUILDING WALL CUT OUT
FOR UNIT/SLEEVE**



INDOOR, FACE VIEW



TOP VIEW

SPECIFICATIONS

Model	Cooling Capacity Btu/Hr.	Electrical Characteristics			Circuit Rating Breaker or T - D Fuse	Energy Efficiency Ratio EER	Moisture Removal Pints/ Hr	Air Circulation CFM	Refrigerant
		Volts Rated	Cooling Amps	Cooling Capacity (KW)					
		Volts - Amps							
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
HCS15A30A	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
HCM24A30A	23,000	230/208	10.9/11.9	6.74	250V-25	9.9	8.8	385	R-32
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
HCM20A50A	21,000	240/220	10.3/10.6	6.15	250V-25	9.5	7.5	425	R-32

INSTALLATION INFORMATION

Model	Dimensions Inches						Window Width Inches		In-Wall Installation Finished Hole Inches			Weight Lbs.	
	Height	A Width	Depth with Front	Depth J Box to Louvers B	Minimum Extension Into Room	Minimum Extension Outside	Min.	Max.	Height	Width	C Max. Depth	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"	140	167
HCS15A30A	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"	151	178
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
HCM24A30A	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"	151	178
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
HCM20A50A	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"	151	178

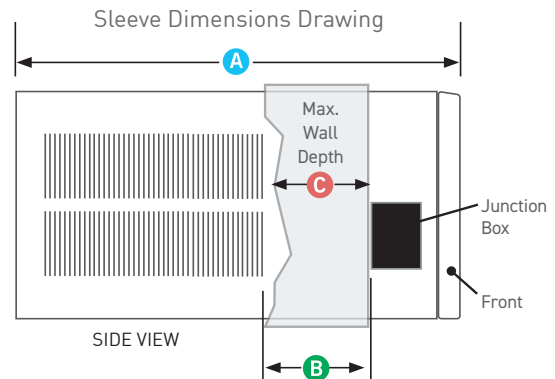
Due to continuing engineering research and technology, specifications are subject to change without notice.

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.



Friedrich Air Conditioning Co. | Friedrich.com



HCM R32 Models Only

HAZARDGARD SUBMITTAL (REV 09-15-25)