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HAZARDOUS LOCATION ROOM AIR CONDITIONERS



UL APPROVED / AHAM RATED

Friedrich Hazardgard® room air conditioner is UL listed for use in Class I, Division 2, Groups A, B, C and D hazardous locations.

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.

For more than 30 years, the Friedrich 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.

Durability features for dependable operation



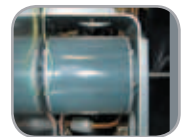
UNIT UTILIZES DIRECT-WIRED, 15-AMP CIRCUIT WITH TIME-DELAY FUSE THAT WILL TOLERATE SURGE CURRENT WITHOUT TRIPPING THE BREAKER.



DIAMONBLUE TECHNOLOGY ANTI-CORROSIVE TREATMENT PROVIDES ADDED ENDURANCE AND PROTECTION IN COASTAL OR CORROSIVE ENVIRONMENTS.



LARGER, COMMERCIAL GRADE, ENCLOSED FAN MOTOR WITH HERMETICALLY SEALED OVERLOAD FOR ARC-FREE OPERATION. TOTALLY ENCLOSED TO ASSURE EFFICIENT OPERATION UNDER ADVERSE ELECTRICAL CONDITIONS.



HERMETICALLY SEALED RECIPROCATING COMPRESSOR IS COOLED DURING THE REFRIGERATION CYCLE, WHICH ALLOWS THE UNIT TO TOLERATE HIGHER OUTDOOR TEMPERATURES UP TO 130° F.



20 GAUGE STEEL IS USED IN ORDER TO CREATE A MORE ROBUST AIR CONDITIONER CABINET THAT WILL WITHSTAND YEARS OF HARD USE.



BUILT FOR EXTREME TEMPERATURES AND CONDITIONS





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 by-product

Hazardous materials storage



PERMANENT SPLIT CAPACITOR

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 AMBIENT
TEMPERATURES AS LOW AS 45° F.

Hazardgard also meets
the U.S. National Electric
Code, Article 500
requirements for Class 1,
Division 2, Groups A, B, C
and D Hazardous locations.

Built tough

Friedrich air conditioners can be found in some of the world's toughest locations. Oil companies rely on us to cool offshore oil rigs in the most extreme conditions, and military bases and government offices all over the world choose Friedrich. Industrial and high tech leaders also trust Friedrich commercial grade products for their applications.



HAZARDOUS LOCATION ROOM AIR CONDITIONERS

Preliminary

Specifications

| Model | Cooling Capacity (Btu - AHAM) | Electrical Characteristics | | | Energy Efficiency Ratio AHAM EER | Moisture Removal (Pints/ Hr.) | Air Direction Controls | Room Side Air Circulation CFM | Refrigerant |
|----------|----------------------------------|----------------------------|-----------|-----------|---|-------------------------------------|---------------------------|-------------------------------------|-------------|
| | | Volts Rated | Amps AHAM | Watts | | | | | |
| 60 HERTZ | | | | | | | | | |
| SH15M30 | 14500/14000 | 230/208 | 6.9/7.5 | 1495/1443 | 9.7/9.7 | 6.0 | 8-way | 375 | R-410A |
| SH20M30 | 19500/19000 | 230/208 | 8.7/9.6 | 2074/2021 | 9.4/9.4 | 4.0 | 8-way | 375 | R-410A |
| 50 HERTZ | | | | | | | | | |
| SH20M50 | 19500/19000 | 240/220 | 8.7/9.6 | 2074/2021 | 9.4/9.4 | 4.0 | 8-way | 375 | R-410A |

Installation Information

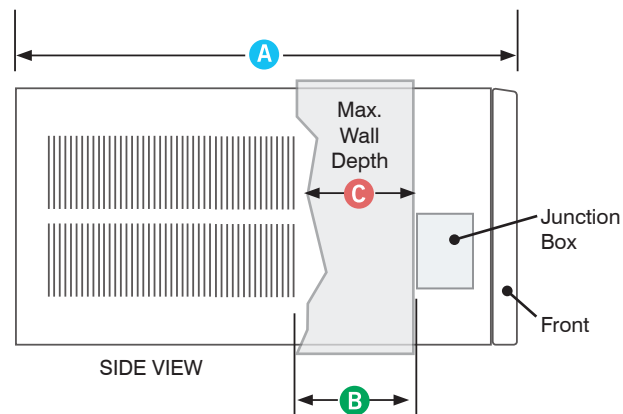
| Model | Dimensions (Inches) | | | | | | Window Width (Inches) | | In-Wall Installation Finished Hole (Inches) | | | Circuit Rating Breaker or T - D Fuse | Weight (Lbs.) | |
|---------|------------------------|-----------|--------------------------|--------------------------------|-----------------------------------|---------------------------------|--------------------------|------|--|----------|-----------------|--|------------------|----------|
| | Height | Width | Depth with Front A | Depth J Box to Louvers B | Minimum Extension Into Room | Minimum Extension Outside | Min. | Max. | Height | Width | Max. Depth C | Volts - Amps | Net | Shipping |
| SH15M30 | 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 - 15A | 140 | 167 |
| SH20M30 | 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 - 15A | 166 | 170 |
| SH20M50 | 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 - 15A | 166 | 170 |

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. MAXIMUM TEMPERATURE RATING FOR CLASS I, DIVISION 2, GROUPS A,B,C,D.

OPERATING TEMPERATURE CODE T3B



Sleeve Dimensions Drawing



Friedrich Air Conditioning Co. | 10001 Reunion Place, Suite 500 | San Antonio, TX 78216 | 877.599.5665 | fax 210.357.4480
www.friedrich.com