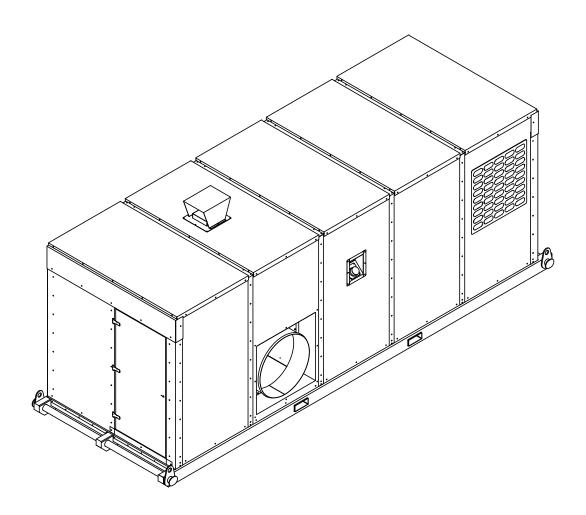


MIH4.2ES Indirect Fired Heater Owner's Manual



For technical assistance contact:

www.generacmobileproducts.com
Technical Support
1-800-926-9768

Use this page to record important information about this indirect fired heater.

Unit Model No.	
Unit Serial No.	
Engine Make:	
Engine Serial Number:	
Engine Model Number:	

Record the information found on the unit data label on this page. See unit serial number location. The label plate is affixed to the inside partition, to the left of the control panel console.

Always supply the complete model and serial numbers of the unit when contacting an Generac Mobile Authorized Service Dealer (GMASD) about parts and service.

Operation and Maintenance: Correct maintenance and care of the unit ensures a minimum number of problems, and keeps operating expenses at a minimum. It is the operator's responsibility to perform all safety inspections, to verify all maintenance for safe operation is performed promptly, and to have the equipment inspected periodically by an GMASD. Normal maintenance, service, and replacement of parts are the responsibility of the owner/operator and are not considered defects in materials or workmanship within the terms of the warranty. Individual operating habits and usage may contribute to the need for additional maintenance or service.

When the unit requires servicing or repairs, the Generac Mobile recommends contacting a GMASD. Authorized service technicians are factory–trained and are capable of handling all service needs. To locate the nearest GMASD, please visit the dealer locator at:

www.generacmobileproducts.com/parts-service/find-service

MARNING

CANCER AND REPRODUCTIVE HARM

www.P65Warnings.ca.gov.

(000393a)

≜WARNING

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.
 For more information go to

www.P65Warnings.ca.gov/diesel. (000394)

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Section 1: Safety Information

Introduction

Thank you for purchasing a Generac Mobile Products, LLC product. This unit has been designed to provide high-performance, efficient operation, and years of quality use when maintained correctly.

The MIH4.2ESDX 50Hz indirect air heater is designed and built for sustained, reliable heat production in industrial operating conditions and environments. The MIH4.2ESDX 50Hz is built to withstand frequent handling under these conditions. The fully enclosed design protects the operating components, allowing all-weather storage and operation.

The information in this manual is accurate based on products produced at the time of publication. The manufacturer reserves the right to make technical updates, corrections, and product revisions at any time without notice.

Read This Manual Thoroughly



WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

If any section of the manual is not understood, contact your nearest Generac Mobile Authorized Service Dealer (GMASD), visit **www.generacmobileproducts.com**, or contact Generac Mobile Customer Service at 800-926-9768 with any questions or concerns.

This manual must be used in conjunction with all other supporting product documentation supplied with the product.

SAVE THESE INSTRUCTIONS for future reference. This manual contains important instructions that must be followed during placement, operation, and maintenance of the unit and its components. Always supply this manual to any individual that will use this unit, and instruct them on how to correctly start, operate, and stop the unit in case of emergency.

Safety Rules

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The alerts in this manual, and on tags and decals affixed to the unit, are not all inclusive. If using a procedure, work method, or operating technique that the manufacturer does not specifically recommend, verify that it is safe for others and does not render the equipment unsafe.

Throughout this publication, and on tags and decals affixed to the unit, DANGER, WARNING, CAUTION, and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Alert definitions are as follows:

A DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

(000001)

AWARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

(000002)

ACAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

(000003)

NOTE: Notes contain additional information important to a procedure and will be found within the regular text of this manual.

These safety alerts cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the action or service are essential to preventing accidents.

How to Obtain Service

When the unit requires servicing or repairs, contact a GMASD for assistance. For assistance locating a GMASD, visit www.generacmobileproducts.com/parts-service/find-service.

When contacting a GMASD about parts and service, always supply the complete model and serial number of the unit as given on its data decal located on the unit. Record the model and serial numbers in the spaces provided on the front cover of this manual.

General Hazards

▲WARNING

Risk of injury. Do not operate or service this machine if not fully alert. Fatigue can impair the ability to service this equipment and could result in death or serious injury. (000215)

AWARNING

Equipment damage. Do not attempt to start or operate a unit in need of repair or scheduled maintenance. Doing so could result in serious injury, death, or equipment failure or damage. (000291)



AWARNING

Hearing Loss. Hearing protection is recommended when using this machine. Failure to wear hearing protection could result in permanant hearing loss. (000107)



AWARNING

Moving Parts. Keep clothing, hair, and appendages away from moving parts. Failure to do so could result in death or serious injury.

(000111)



AWARNING

Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire. (000108)

ACAUTION

Equipment or property damage. Do not block air intake or restrict proper air flow. Doing so could result in unsafe operation or damage to unit.

(000229)

Explosion and Fire Hazards



A DANGER

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Add fuel in a well ventilated area. Keep fire and spark away. Failure to do so will result in death or serious injury.

(000105)



AWARNING

Risk of Fire. Unit must be positioned in a manner that prevents combustible material accumulation underneath. Failure to do so could result in death or serious injury. (000147)

Electrical Hazards



A DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury. (000145)



A DANGER

Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury.

(000104)



A DANGER

Electrocution. Verify electrical system is properly grounded before applying power. Failure to do so will result in death or serious injury. (000152)



A DANGER

Electrocution. DO NOT use the unit if electrical cord is cut or worn through. Doing so will result in death or serious injury.

(000263a)

AWARNING

Electric shock. Only a trained and licensed electrician should perform wiring and connections to unit. Failure to follow proper installation requirements could result in death, serious injury, and equipment or property damage.

(000155a)

Safety and Operating Decals

See *Figure 1-1*. This unit features numerous safety and operating decals. These decals provide important operating instructions and warn of dangers and hazards. The following diagrams illustrate decal locations and descriptions.

Replace any missing or hard-to-read decals and use care when washing or cleaning the unit. Decal part numbers can be found in the parts manual, available at: http://www.generacmobileproducts.com.

ID	Description		
Α	Hot Surface Warning: Do Not Enter Intake		
В	Diesel Fuel Hazards		
С	Ultra Low Sulfur Fuel Only		
D	Moving Parts: Do Not Remove Guard		
Е	Lifting Eye/Tie-Down Location: Right		
F	Forklift Pocket Location		
G	Lifting Eye/Tie-Down Location: Left		
Н	Keep Doors Closed		
1	Thermostat Instructions		
J	Operating Instructions		

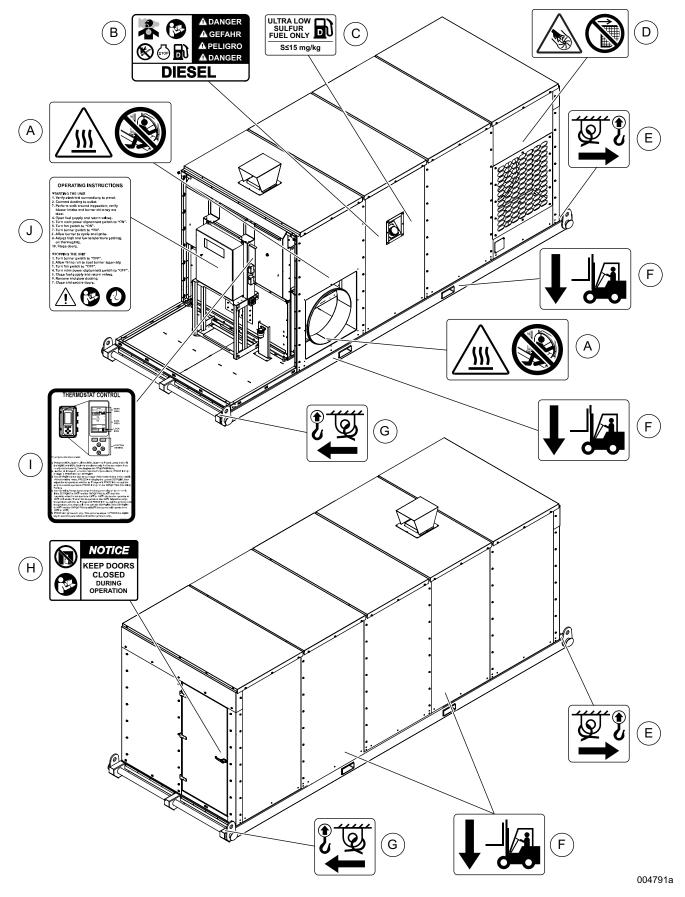


Figure 1-1. External Decals

Section 2: General Information

Specifications

Heater output	4,225,500 BTU/hr (1,238.4 kW/hr) maximum
Туре	Indirect fired
Fan motor	30 hp electric motor
Fan operating speed	1,460 rpm
Air volume	21,000 CFM (35,679 m ³ /hour)
Static pressure	3 in H ₂ O (0.75 kPa)
Air outlet duct	36 in (91.4 cm)
Electrical input	380V, 50Hz incoming line
Burner	Riello, RL 130/M
Burner type	2 Stage/modulating
Burner fuel	Diesel
Fuel tank capacity	160 gal (606 L)
Burner fuel consumption (at 100% prime)	31.3 gph (118 Lph)
Total maximum run time	5.1 hrs
Temperature rise	180 °F (82 °C)
Fan	Class 2, SWSI, 300 BC
Maximum duct length	30 ft (9.1 m)
Heater efficiency	85%
Dimensions	289 in x 102 in x 118 in (7.34 m x 2.59 m x 2.99 m)
Weight	14,260 lbs (6,468.2 kg) operating weight, skid mounted

Component Locations

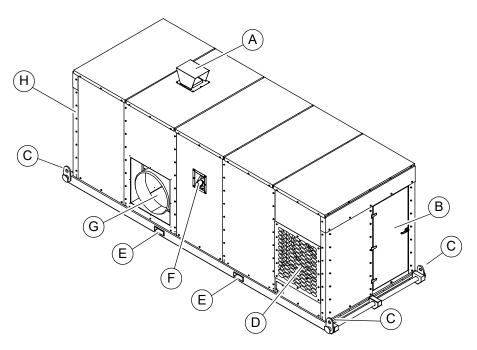


Figure 2-1. External Component Locations

A Exhaust stack

B Fan access door

C Lifting eye

D Air inlet

E Forklift pocket

F Diesel fuel fill

G Air outlet

H Burner access door (not shown)

004615

Control Panel

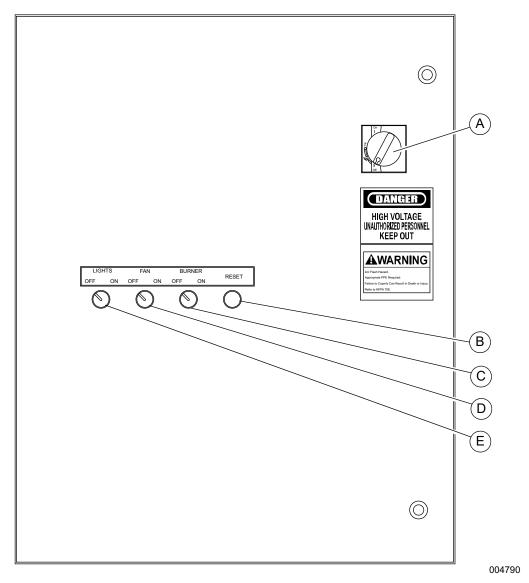


Figure 2-2. Control Panel Component Locations

- A Main power disconnect switch
- D Fan on/off switch

B Reset button

- E Lights on/off switch
- C Burner on/off switch

Fuel System



A DANGER

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Keep fire and spark away. Failure to do so will result in death or serious injury. (000168)

My

A DANGER

Explosion and Fire. Do not overfill fuel tank. Overfilling may cause fuel to leak and ignite or explode, resulting in death or serious

(000204)

This burner is designed to operate with diesel fuel.

NOTE: Comply with all laws regulating the storage and handling of fuels.

Follow these guidelines:

- Use ultra-low-sulfur diesel fuel only.
- When temperatures are at or below freezing, use No. 1D diesel fuel.
- When temperatures are above freezing, use No. 2D diesel fuel.
- In some areas of the country, climatized fuel—a mixture of 1D and 2D—may also be used.

Electrical Connection



A DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury. (000145)



A DANGER

Electrocution. Do not use unit if electrical wiring is cut or worn through. Doing so will result in death or serious injury.

(000378)



A DANGER

Electrocution. Verify electrical system is properly grounded before applying power. Failure to do so will result in death or serious injury. (000152)

WARNING

Electric shock. Only a trained and licensed electrician should perform wiring and connections to unit. Failure to follow proper installation requirements could result in death, serious injury, and equipment or property damage.

(000155a)

IMPORTANT NOTE: The unit is powered with three line power cables routed through the incoming electrical port and connected to the distribution block inside the control panel. Incoming power must be 380V 50Hz.

IMPORTANT NOTE: Inrush amperage to start the blower is 237A. Amperage will drop to operating levels once fan is running.

Section 3: Operation

Theory of Operation

When the thermostat is set at a temperature, the indirect heater generates heat when the burner unit is turned on. This combustion heats the blast box, and the hot air then radiates through the transition. A fan pulls cool air through the intake and pushes it over and through the heat exchanger. The heated air flows out of the discharge and through the ducting.

Placement

- Unit must be placed on firm, flat, dry ground.
- Do not place unit on an incline.
- Use the lifting eyes and appropriate lifting equipment to move unit.
- Do not operate unit on a flat bed trailer or transport device.
- Place unit a minimum of 10 ft (3 m) away from structures and barricades.

Before Starting

Pre-Start Checklist



AWARNING

Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire. (000108)

- Remove all flammable materials and fire hazards within 10 ft (3 m) of the unit.
- Keep unit a minimum of 10 ft (3 m) from structures or barricades.
- Inspect inside and outside the unit for leaking fuel.
- Verify the following are clear of debris and obstructions:
 - Burner air intake
 - Burner exhaust stack
 - Outlet and fan intake
- Verify air duct hose is securely fastened to outlet duct assembly.
- Inspect fuel supply assembly for proper installation and security.
- Verify fuel valves are open.
- Verify burner mounting system is secure.
- Inspect electrical wiring, components, and controls for abnormalities.

- Verify all burner and fan compartment electrical switches and disconnects are OFF.
- · Verify fan motor mount security and alignment.
- Inspect fan shaft and bearing for security and correct installation.

Ducting Guidelines

AWARNING

Burn hazard. Do not remove ducting until all air pressure has been emptied from hose duct. Failure to do so could result in severe injury.

(000288)

- Place ducting in desired configuration before operating unit. Tightly secure ducting end to outlet.
- Avoid sharp bends or 90° turns in ducting.
- Verify ducting is not a high traffic area, and will not impede workers or other machinery. Care should be taken to prohibit the need to step or climb over ducting.
- DO NOT place ducting over combustible materials.
- DO NOT place ducting over surfaces which may damage it or reduce performance, such as water, sharp rocks or glass, electrical wiring, and piping.
- DO NOT place or drape anything over ducting such as covers, insulation, blankets or cloth, electrical wires, etc.

Heater Startup



▲ DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury. (000145)



A DANGER

Electrocution. Do not use unit if electrical wiring is cut or worn through. Doing so will result in death or serious injury.

(000378)



A DANGER

Electrocution. Verify electrical system is properly grounded before applying power. Failure to do so will result in death or serious injury. (000152)



AWARNING

Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire. (000108)

AWARNING

Equipment damage. Do not attempt to start or operate a unit in need of repair or scheduled maintenance. Doing so could result in serious injury, death, or equipment failure or damage. (000291)

ACAUTION

Equipment or property damage. Do not block air intake or restrict proper air flow. Doing so could result in unsafe operation or damage to unit.

(000229)

General Overview

Heater and fan behavior are driven by several userdefined benchmarks. The fan starts when the fan motor breaker and fan motor switch are ON.

Operational Procedure

Proceed as follows to operate the unit:

- **1.** Place ducting in desired configuration.
- **2.** Make all necessary electrical connections to power the unit.
- **3.** Perform walk around inspection; verify blower intake and burner chimney are clear.
- 4. Open fuel supply and return valves.
- **5.** Turn main power disconnect switch to ON.
- 6. Turn fan switch ON.

IMPORTANT NOTE: Fan must be started before burner is started.

- **7.** Turn burner switch ON. Wait for purge cycle to complete and watch for burner ignition.
- **8.** Adjust high and low temperature settings on thermostats.
- 9. Close all access doors while unit is operating.

IMPORTANT NOTE: All doors on the unit must be closed when operating.

Adjusting Heater Output

Heater output is adjusted using the up and down arrows on the thermostat to set the desired temperature.

Thermostats

The thermostats are located inside the burner access door. Record the set temperature for future reference.

The upper thermostat controls the burner high/low flame to meet desired air output and can be changed by the operator.

The lower thermostat is a safety limit thermostat set to 180 °F (82 °C). All power is removed from the burner controls when air temperature reaches 180 °F (82 °C).

Upper Thermostat

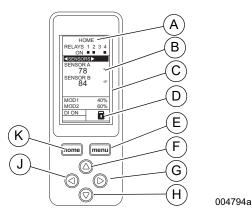


Figure 3-1. Upper Thermostat Features

Α	Menu name	F	Up arrow button
В	Temperature units indicator	G	Right arrow button
С	Liquid Crystal Display (LCD)	Н	Down arrow button
D	Lock icon	J	Left arrow button
Е	MENU button	K	HOME button

Upper Thermostat Control

Proceed as follows to access the advanced menu and edit operating parameters, such as temperature units:

- Press MENU button to display the PROGRAM menu. If MENU button is locked, press and hold HOME and MENU buttons simultaneously for five seconds to unlock.
- Press left or right arrow buttons to move through PROGRAM menu. Press right arrow button to go to RELAY 1. Press right arrow button to go to SET-POINT menu.

NOTE: SETPOINT is the high temperature output of the heater that is in the middle of the throttling range.

- **3.** Press right arrow button to display current SET-POINT, then adjust temperature using up and down arrow buttons.
- **4.** Press right arrow button to accept programmed temperature.
- **5.** Press right arrow button to go to DIFFRNTL menu.
- **6.** Press right arrow button to display differential value.
- Adjust differential value using up and down arrow buttons and press right arrow button to accept the programmed temperature.

NOTE: In heating mode, the differential is set below the setpoint temperature.

- **8.** Return to RELAY 1 menu and select SENSOR menu. Then, select SENSOR A menu.
- **9.** Press right arrow button to display next menu, and select HEAT. Press right arrow button set heat.

NOTE: Press left arrow button to return to any of the previous steps.

10. Press HOME button to save parameters and exit programming.

NOTE: If no buttons are pressed for 30 seconds while programming the thermostat, the display returns to the default temperature display. Any changes made are not saved.

Lower Thermostat

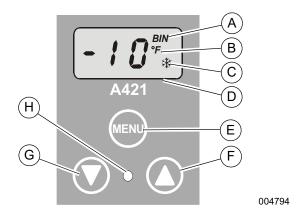


Figure 3-2. Lower Thermostat Features

Α	Temp offset indicator	E	MENU button
В	Temp units indicator	F	Up arrow button
С	Operating mode indicator	G	Down arrow button
D	Liquid Crystal Display (LCD)	Н	Output relay status indicator LED

Lower Thermostat Control

Proceed as follows to access the advanced menu and edit operating parameters, such as temperature units:

- 1. Press MENU button.
- Press up or down arrow buttons to reach desired function.
- Press MENU button to display the current value of the function.
- Press up or down arrow buttons until desired value is reached.
- **5.** Press MENU button to save the new value. The display will show the next parameter code.
- **6.** Press and hold up and down arrow buttons to return to the main screen.

NOTE: If MENU button is not pressed after changing the function value, the new value will not be saved.

NOTE: If no buttons are pressed for 30 seconds while programming the thermostat, the display returns to the default temperature display. Any changes made are not saved.

See **Table 3-1** for lower thermostat functions.

Table 3-1. Lower Thermostat Function Ranges and Settings

Function	Range	Factory Setting
On = Relay On Temperature	-40-212 °F (-40-100 °C)	Thermostat: 100 °F (38 °C)
OFF = Relay Off Temperature	-40-212 °F (-40-100 °C)	Thermostat: 180 °F (82 °C)
ASd = Anti-short Cycle Delay	0 to 12 minutes	0
SF = Sensor Failure Operation	0 = output de-energized 1 = output energized	0

NOTE: See thermostat manual for more information.

Heater Shutdown

Proceed as follows to shut down heater:

- 1. Turn burner switch to OFF.
- **2.** Allow five minutes of fan operation for cool down cycle, then turn fan motor switch to OFF.

NOTE: Turning fan off before burner has cooled could result in shorter burner unit life.

- 3. Turn fan switch to OFF.
- 4. Turn main power disconnect switch to OFF.
- 5. Close fuel supply and return valves.
- 6. Detach ducting and return to storage.
- 7. Close and secure access doors.

Emergency Shutdown

Remove power at the incoming power source for the unit in emergency situations.

Section 4: Maintenance

Maintenance

Regular maintenance will improve performance and extend engine/equipment life. Generac Mobile Products, LLC recommends that all maintenance work be performed by a Generac Mobile Authorized Service Dealer (GMASD). Regular maintenance, replacement, or repair of the emissions control devices and systems may be performed by any repair shop or person of the owner's choosing. To obtain emissions control warranty service free of charge, the work must be performed by a GMASD. See the emissions warranty.

Maintenance Tasks



AWARNING

Vision loss. Eye protection is required when servicing unit. Failure to do so could result in vision loss or serious injury.

(000377)

Daily checks must be performed when unit is operated continuously for extended periods of time. Daily checks and routine monthly checks can be performed by an authorized operator.

NOTE: Normal maintenance, service, and replacement of parts are the responsibility of the owner and are not considered defects in materials or workmanship within the terms of the warranty. It is strongly recommended that equipment be periodically checked by a GMASD.

Daily Walk Around Inspection

Inspect for conditions which could hinder performance or safety, such as (but not limited to) fuel leakage, blocked vents, loose or missing hardware, and incorrect electrical connections. Inspect for foreign matter blocking the vents and on top of the unit.

- Inspect outer cover for significant damage beyond scuffs and small nicks.
- Inspect for wire abrasion.
- Inspect electrical connectors and ground points for loose or missing hardware and incorrect electrical connections.
- Inspect all fuel hoses for deterioration.
- Verify hoses are not crushed, bent, or twisted.
- Verify there are no cracks or corrosion.

Maintenance Schedule

Periodic inspection, service, and maintenance of this unit is critical to ensuring reliable operation. The following is the manufacturer's recommended maintenance schedule. The maintenance items need to be performed more frequently if the unit is used in severe applications (such as very high or very low ambient conditions or extremely dirty or dusty environments). Use calendar time from the previous maintenance interval to determine next required maintenance interval.

Follow all applicable safety alerts in this manual or the engine service manual before performing any maintenance checks or service.

This maintenance schedule reflects the minimum tasks needed to verify the unit remains operational. Some of the tasks can be performed by an authorized operator, and others must be performed by a GMASD.

NOTE: An authorized operator is one who has been trained by a GMASD in correct operation and inspection of this unit.

Maintenance Schedule

Daily	Inspect burner assembly for damage or impurities. Verify burner screws are correctly tightened.		
 Change in-line fuel burner filter. Verify burner lockout feature is functioning. See burner manual. Remove and replace fuel filter elements. 			
Every 12 months	Complete a combustion check on burner. Contact a GMASD.		
As required	 Test thermostat opening temperature. Inspect fuses. Inspect electrical wiring and connections. Test burner pump delivery pressure. Test burner lockout feature functionality. Replace burner nozzles; do not clean. Verify combustion after change, between 2-3 years. Purge fuel system. Clean photocell glass cover. Clean flame inspection window. Inspect line, pump, and nozzle filter boxes. Clean or replace as necessary. Remove water or impurities from the bottom of the fuel tank using a separate pump every five years. 		
NOTE: For more information	ation, see the burner manual.		

Other Maintenance Checks

The following inspections should be performed by an authorized service technician, or a correctly trained authorized operator. These maintenance items require a high level of experience and skill to evaluate and correct.

- Inspect hoses and connections.
- Inspect fuel supply system.

Section 5: Troubleshooting

General Troubleshooting Guide

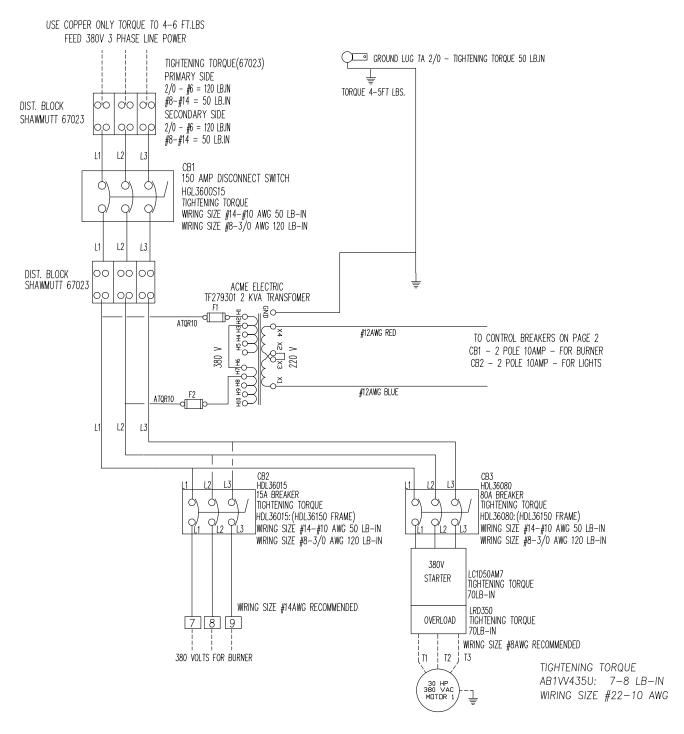
Problem Cause		Solution		
	Leaks in fuel supply system.	Locate source of leak and repair as required.		
Excessive fuel consumption	Poor fuel quality; incorrect fuel type.	Drain fuel and replace with correct grade and quality of fuel for operating conditions.		
	Electronic control system problem or basic burner problem.	Contact a GMASD.		
	Restricted fuel filter.	Replace fuel filter.		
Low-pressure fuel sys- tem — fuel pressure low	Restricted fuel line.	Locate restriction, repair as required.		
р	Faulty transfer pump.	Contact a GMASD.		
	Burner running too lean.	Adjust burner fuel/air input.		
Burner emits white smoke	Poor fuel quality; incorrect fuel type.	Drain fuel and replace with correct grade and quality of fuel for operating conditions.		
Durner erriits writte strioke	Faulty oil burner nozzle.			
	Electronic control system or basic burner problem.	Contact a GMASD.		
Burner emits black, gray,	Incorrect fuel type.	Drain fuel and replace with correct grade, type, and quality of fuel for operating conditions.		
	Electronic control system problem or basic burner problem. Contact a GMASD.			
or blue smoke	Dirty oil burner nozzle.	-		
	Burner running too rich.	Adjust burner fuel/air input.		
	Unused fuel.	Adjust screws at top of cam to adjust air		
	Insufficient oxygen.	damper. See burner manual for more information.		
	Thermostat temperature set too close to high limit thermostat.	Program thermostats.		
Burner overheats	Faulty or wrong type of thermostats.	Test thermostat opening temperature, replace thermostats as required.		
	Incorrect grade of fuel.	Drain fuel and replace with correct grade and quality of fuel for operating conditions.		
Entire electrical system does not function Blown fuse.		Replace fuse.		

Troubleshooting

Section 6: Installation Diagrams

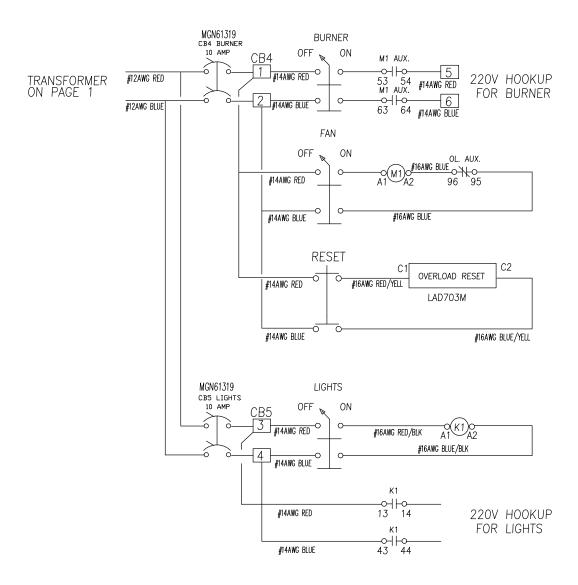
Blower Panel (1 of 2)

380 VOLT 4.2MBTU BLOWER PANEL



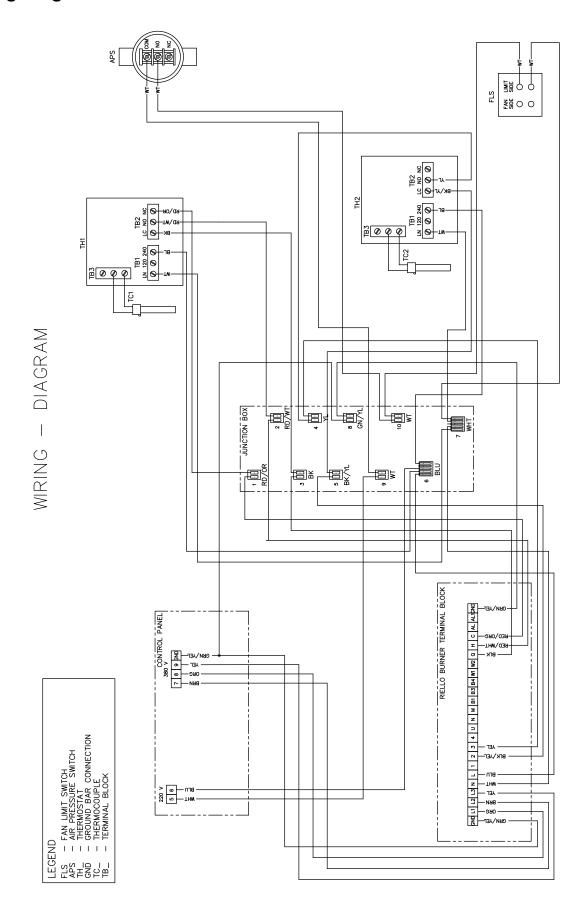
Blower Panel (2 of 2)

380 VOLT 4.2MBTU BLOWER PANEL



TIGHTENING TORQUE
AB1VV435U: 7-8 LB-IN
WIRING SIZE #22-10 AWG

Wiring Diagram



Installation Diagrams

Installation Diagrams

