

OPERATING INSTRUCTIONS AND OWNER'S MANUAL

Model #

MH18CH

READ INSTRUCTIONS CAREFULLY: Read and follow all instructions. Place instructions in a safe place for future reference. Do not allow anyone who has not read these instructions to assemble, light, adjust or operate the heater.



PORTABLE PROPANE CABINET HEATER

DO NOT LEAVE HEATER UNATTENDED OR IN OPERATION WHILE SLEEPING



GENERAL HAZARD WARNING:

FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.

ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.

IF YOU NEED ASSISTANCE OR HEATER INFORMATION SUCH AS INSTRUCTION MANUALS, LABELS, ETC., CONTACT THE MANUFACTURER.



WARNING:

FIRE, BURN, INHALATION AND EXPLOSION HAZARD. KEEP SOLID COMBUSTIBLES SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD A SAFE DISTANCE AWAY FROM THE HEATER AS RECOMMENDED BY THE INSTRUCTIONS. NEVER USE THE HEATER IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNER, DUST PARTICLES OR UNKNOWN CHEMICALS.

WARNING: NOT FOR HOME OR RECREATIONAL VEHICLE USE

SPECIFICATIONS

MODEL NO......MH18CH
GAS TYPE.....LP-Gas

GAS SUPPLY PRESSURE

TO REGULATOR......MAX 200 psi (1380 kPa)
MIN 5 psi (34.5 kPa)

MANIFOLD

PRESSURE......11" W.C

Do not exceed the gas supply pressures shown on rating plate for Model MH18CH. The maximum inlet gas supply pressure and the minimum inlet gas supply pressure (for purposes of input adjustment) for LP-Gas are shown as follows:



WARNING

DO NOT EXCEED 14" W.C. (1/2 psi) INLET PRESSURE TO HEATER.

VENTILATION



THIS APPLIANCE IS UNVENTED AND MUST BE USED ONLY IN A WELL VENTILATED AREA.

The flow of combustion and ventilation air must not be obstructed. DO NOT use in a tightly enclosed area. Any combustion process requires and consumes oxygen, and may produce carbon monoxide. This heater must be operated with adequate ventilation. Two openings directly to the outdoors must be provided, one low and one high, preferably on opposite sides of the area to be heated. Each of these openings must provide at least three square inches of combustion air-intake area and exhaust outlet area for every 1000 BTUs per hour of heater input rate in order to complete the combustion/ventilation process. Provide additional ventilation for any additional fuel-burning appliances and/or additional occupants.

CLEARANCE (Minimum clearances to combustible materials)

MODEL NO.	BTU/HR RATING TYPE GAS	NORMAL OPERATING POSTION	CLEARANCES TO COMBUSTIBLES			
	LP		TOP	SIDES	ВАСК	FRONT
MH18CH	18,000*	VERTICAL	24"	12"	0"	72"

^{*}Tank size and tank temperature can directly affect BTU output

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ARNING: Fuels used in liquefied propane gas appliances, and the products of combustion of such fuel, can expose you to chemicals including benzene, which is known to the state of California to cause cancer and cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



FOR YOUR SAFETY

Do not use this heater in a space where gasoline or other liquids having flammable vapors are stored or used.

The heater is designed and approved for use as a construction heater under ANSI Z83.7 - 2017 / CSA 2.14 - 2017.

We cannot anticipate every use which may be made of our heaters. CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS.

Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.

This appliance is intended to be used primarily for the heating of buildings under construction, alteration or repair.

WARNING: THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS INCLUDING LEAD AND LEAD COMPOUNDS, WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO WWW.P65WARNINGS.CA.GOV.

GENERAL INFORMATION

- A. Your portable gas-fired infra-red heater comes fully assembled and is tested at the factory for proper gas and input as stated on the nameplate.
- B. Each heater is equipped with a 100% safety shutoff, push button valve which will automatically stop the flow of gas in the event the heater fails to operate for any reason. A tip over switch and an excess flow check are also standard on the model MH18CH.
- C. Before proceeding with this installation, be sure to inspect for damages. The freight company must be notified of any damages and request that an inspection be made. Enerco Technical Products will send replacements for damaged parts only after receiving a signed inspection report to prove the liability of the freight company.

FOR SAFE OPERATION

- READ THESE INSTRUCTIONS CAREFULLY. Read and adhere to these instructions. DO NOT allow anyone who has not read these instructions to assemble, light, adjust or operate this heater.
- 2. LP-Gas IS HIGHLY FLAMMABLE. In the event of a leak, LP-Gas will accumulate and the possibility of a fire is present. LP-Gas is scented and its strong odor is readily detectable. Never strike a match, bring any flame or create an electric spark in an enclosure when you smell LP-Gas. Ventilate the area thoroughly, move the heater outside, and correct the source of the leak before attempting to light any appliance.
- 3. Keep children and pets away from the heater.
- Check the heater thoroughly for damage. DO NOT operate a damaged heater.
- 5. **DO NOT** modify the heater or operate a heater which has been modified from its original condition.
- 6. Use only propane gas.
- Use only VAPOR WITHDRAWAL propane supply. If there is any question about vapor withdrawal, ask your propane dealer
- 8. Mount the propane cylinders vertically (shutoff valve up). Secure the 20# propane tank inside the cabinet to protect it from damage.
- 9. **DO NOT** direct the heater toward another propane tank within 20 feet of the heater.
- IMPORTANT Use only the hose and regulator assembly provided with the heater. Replace only with factory approved components..
- 11. This heater is primarily intended for temporarily heating of buildings under construction, alteration or repair. Area must be well ventilated. Never use in an occupied dwelling.
- 12. If at any time gas odor is detected, IMMEDIATELY DISCONTINUE operation until the source of gas has been located and corrected. Read enclosed Odor Fade and Propane Sheet for additional information about detecting propane leaks.
- 13. Install the heater such that it is not directly exposed to water spray, rain and/or dripping water.

- 14. Maintain minimum clearance from combustible material (like paper). Page 2. Never place flammable items on the heater.
- 15. Due to the high surface and exhaust temperatures, adults and children must observe clearances to avoid burns or clothing ignition.
- 16. Operate only on a stable, level surface.
- 17. **DO NOT** connect to an unregulated propane source.
- 18. **DO NOT** move, handle or service while hot or burning.
- 19. **DO NOT** use heater on finished floors.
- 20. Use only in accordance with local codes or, in the absence of local codes, with the Standard for the Storage and Handling of Liquefied Petroleum Gases ANSI/NFPA 58 and CSA B149.1, Natural Gas and Propane Installation Code.

INSTALLATION INSTRUCTIONS

GENERAL

For the U.S. and/or Canada, the installation of this appliance must comply with local and/or Provincial codes or, in the absence of these codes,

- With the (U.S.) National Fuel Gas Code, ANSI Z223.1 Latest Edition, AND with the (U.S.) Standard for the Storage and Handling of Liquified Petroleum Gases, ANSI/NFPA 58, OR
- With the current (Canadian) CAN/CGA B149.1 AND B149.2 INSTALLATION CODES.

This heater (including hose and regulator assembly) must be inspected before each use and at least annually by a qualified service person. If the hose for Model MH18CH shows evidence of excessive abrasion or wear, or if the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer. See the parts list.

The minimum ambient temperature rating for this heater is 20 degrees F.

This heater incorporates a "Tip Over" switch which automatically shuts off the burner in the event of tipping. Ensure that this switch is in the vertical position and is secured with the screws provided. **DO NOT operate this heater with the LP-gas supply cylinder in any other than the upright position.**

INSTALLATION OF BASE TANK SUPPORT

Packaged Items:

Base Tank Support Part # 27521



(4) Locking Casters Part # 27514





1. Remove the two phillip head screws from the base tank support.



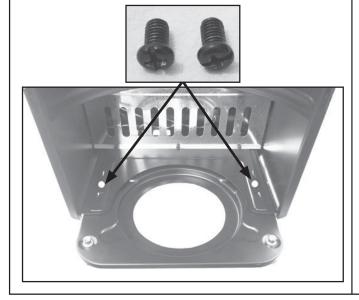
2. Align the Base Tank Support tabs (2) with the open slots(2) on the bottom of the heater along with aligning the bottom heater tabs(2) with the open slots(2) on the base tank support. Once the tabs and slots are aligned slide down to lock into place.



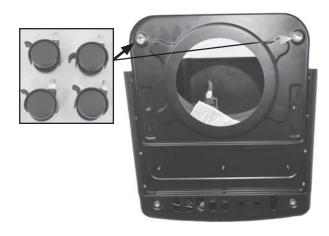




3. Once the Tank Support is aligned and locked into place with bottom of the heater screw the (2) phillip head screws into place.



4. Screw the (4) casters clockwise into threaded openings on the bottom of the Tank Support and bottom of the heater.



LOCATION

Although this heater incorporates a "tip over" switch, the heater and LP-Gas supply cylinder must be located on a hard, flat, level surface to minimize the risk of accidental tipping. The LP Gas supply cylinder should be adequately restrained to prevent accidental tipping. **DO NOT OPERATE this heater with the supply cylinder in any other than the upright position.**

This appliance must be installed only in locations where the potential for physical damage to the appliance (i.e., due to physical contact) is reduced to a minimum.

Use of this heater in a draft/windy area may decrease its efficiency. If possible, operate the unit in a draft free area or turn the face of the heater away from the draft.



WARNING

NEVER USE A FORK LIFT TRUCK TYPE CYLINDER.

The connection of Model MH18CH to an LP-Gas cylinder must be made in a well ventilated area using the regulator and hose assembly supplied with the appliance. DO NOT attempt to adjust this regulator. It has been preset at the factory to provide safe and proper operation of the appliance.

IMPORTANT: To install the gas cylinder, you must first remove the tank mount bracket (ref.# 9 in parts list) located inside heater housing. After placing cylinder onto the base tank support, reinstall the bracket to secure the cylinder.

The heater must be located at least six feet away from any LP-Gas cylinder and must not be directed toward any LP-Gas cylinder within 20 feet. If more than one heater is used, they and the supply cylinders must be separated by at least 20 feet.

The gas supply must be turned off at the LP-Gas supply cylinder when the heater is not in use.

When the heater is to be stored indoors, the connection between the LP-Gas supply cylinder and the heater must be disconnected and the cylinder removed from the heater and stored in accordance with Chapter 5 of the Standard for the Storage and Handling of Liquefied Petroleum Gases, ANSI/NF-PA 58 (U.S.), OR CAN/CGA B149.2 (Canada). Never store LP tanks indoors.

Piping must be clean and free from scale or burr.

Before attempting to ignite the appliance, all gas fittings and connections must be thoroughly checked for gas leaks. Apply a small amount of a mild soap and water solution to all fittings and connections and observe for escaping bubbles. If any leaks are detected, shut off the gas supply to the appliance immediately. Wait a minimum of five minutes, repair the leak(s) and retest for leakage. Dry all fittings and connections after leak testing.



NEVER USE A FLAME FOR GAS LEAK TESTING.

OPERATING INSTRUCTIONS



WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTION EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.



CAUTION

THIS APPLIANCE IS HOT DURING NORMAL OPERATION. AVOID PHYSICAL CONTACT.



CAUTION

DO NOT PLACE CLOTHING OR OTHER COMBUSTIBLE MATERIALS ON THIS APPLIANCE.

DO NOT operate this heater if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system or gas control valve which has been under water.

This appliance must be installed and operated only in locations where the potential for physical damage to the appliance is reduced to a minimum. The owner/operator of this appliance must ensure that precautions are taken to protect the appliance from physical damage.

ODOR FADING - NO ODOR DETECTED

- Some people cannot smell well. Some people cannot smell the odor of the man-made chemical added to propane (LP) or natural gas. You must determine if you can smell the odorant in these fuel gases.
- Learn to recognize the odor of propane (LP) gas and natural gas. Local propane (LP) gas dealers will be more than happy to give you a scratch and sniff pamphlet.
 Use it to become familiar with the fuel gas odor.
- Smoking can decrease your ability to smell. Being around an odor for a period of time can affect your sensitivity to that particular odor. Odors present in animal confinement buildings can mask fuel gas odor.
- The odorant in propane (LP) gas and natural gas is colorless and the intensity of its odor can fade under some circumstances.
- If there is an underground leak, the movement of gas through the soil can filter the odorant.
- Propane (LP) gas odor may differ in intensity at different levels. Since Propane (LP) gas is heavier than air, there may be more odor at lower levels.
- Always be sensitive to the slightest gas odor. If you
 continue to detect any gas odor, no matter how small,
 treat it as a serious leak. Immediately go into action as
 discussed previously.

LIGHTING AND SHUT-DOWN

Lighting the Heater:

- Use only the fuel intended for this appliance. Check the appliance rating plate for the correct fuel information.
- 2. Turn off the main gas supply to the appliance. Wait five minutes.
- 3. Turn on the main gas supply.
- 4. Depress and turn Control Knob counterclockwise to "PILOT" position and hold for 15 seconds. With the Control Knob still depressed rotate to the "OFF" position and back to the "Pilot" position to generate a spark at the ignitor. (If needed, repeat until pilot lights). Continue to hold control knob down in "PILOT" position of 30 seconds (See Figure 1).
- Release the control knob. If the pilot does not stay lit, repeat Step 4. If the pilot stays lit, turn the control knob counterclockwise to the desire heat setting.

IMPORTANT: DO NOT attempt to adjust the main burner input using the main gas supply valve, as this may cause the thermocouple to shut down the burner.

Shut-down instructions:

To turn the heater OFF:

- 1. Turn the control knob clockwise to the "OFF" position.
- Turn off the propane tank by turning the tank valve knob clockwise until it stops.
- 3. If the heater is not going to be used for an extend period of time disconnect the regulator/hose assembly from the propane tank.

MAINTENANCE INSTRUCTIONS

This heater (including hose and regulator assembly) must be inspected before each use. If the hose for Model MH18CH shows evidence of excessive abrasion or wear, or if the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer. See the parts list.

The appliance area must be kept free and clear of combustible materials, gasoline and other flammable vapors and liquids at all times.

The flow of combustion and ventilation air must not be obstructed.

Cleaning the heater:

Periodically, the heater must be cleaned of all dirt and dust particles.



DO NOT ATTEMPT TO CLEAN THE HEATER WHILE IT IS OPERATING OR WHILE IT IS STILL HOT.

- Turn the heater off and wait until it has completely cooled (at least 20 minutes) before cleaning.
- Clean the outside of the heater using a damp cloth. DO NOT clean the heater by spraying water on it. Wipe the outside of the heater off with a dry cloth after cleaning.
- Clean the inside of the heater using compressed air. Using an OSHA appoved blow gun, blow compressed air back and forth along the entire burner face to dislodge dust and debris from the ceramic tiles. Using an OSHA appoved blow gun, blow compressed air through venturi from the control end of the heater.
- Clean the orifice of each burner with a #68 drill bit (for LP-Gas).
- Clean the thermocouple lead.

DO NOT operate this heater if any part has been under water. Call a qualified service person to inspect the appliance and to replace any part of the control system or gas control valve which has been under water.

This heater must be inspected at least annually by a qualified service person.

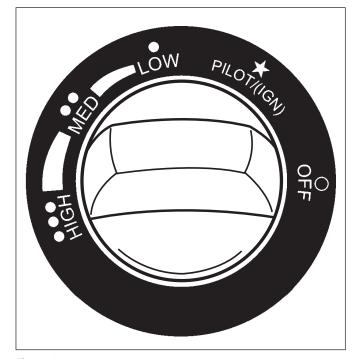


Figure 1

TROUBLESHOOTING INFORMATION: (Model MH18CH)

If burner lights, but goes out when button is released.

CHECK

- Loose wires on tipover switch.
- Loose lead wire at control valve and ODS/Pilot Assembly.
- Loose thermocouple and tighten if necessary.
- Defective ODS/Pilot Assembly. Replace if necessary.
- Defective control. Replace if necessary.
- Defective tip over switch. Replace if necessary.

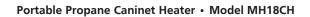
Tip-Over Switch Arrangement

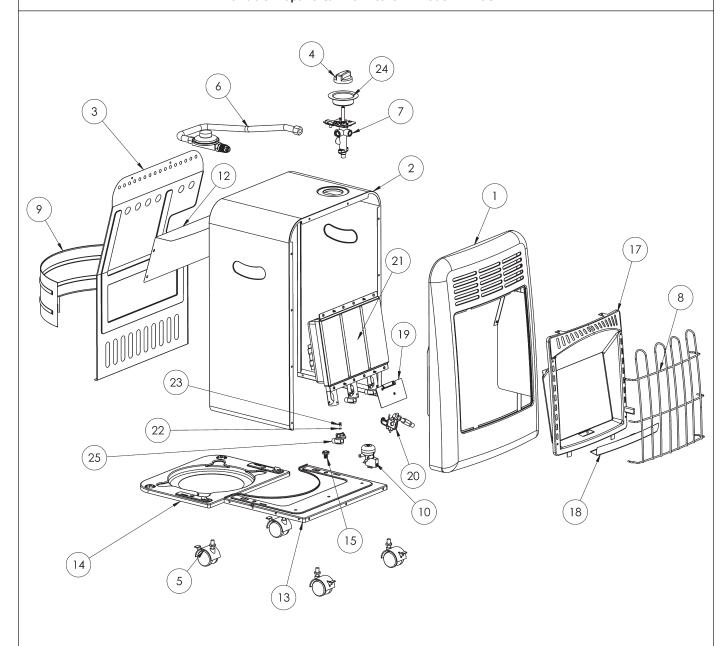
NOTE: The purpose of the Tip-Over Switch is to stop the flow of gas when heater is accidentally knocked over. When and if the heater is knocked over, simply stand heater up, wait 5 minutes and relight.

REPLACEMENT PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION		
1	27510	PANEL, FRONT, MH18CH		
2	27511	PANEL, TOP, MH18CH		
3	27512	SHIELD, RADIATION, MH18CH		
4	27513	KNOB, CONTROL, MH18CH		
5	27514	CASTER, LOCKING, MH18CH		
6	27515	ASSEMBLY, HOSE, REGULATOR		
7	27516	VALVE, CONTROL, MH18CH		
8	27517	GUARD, WIRE, MH18CH		
9	27518	BRACKET, TANK, MOUNT,		
10	42116	SWITCH, TIPOVER, MH18CH		
12	27524	SHIELD, HEAT, MH18CH		
13	27520	BASE, METAL, MH18CH		
14	27521	BASE, TANK, SUPPORT, MH18CH		
15	27530	SCREW, HAND, BASE, MH18CH		
16	27531	BRACKET, HOUSING, SUPPORT		
17	27529	REFLECTOR, MH18CH		
18	27528	GUARD, WIND, MH18CH		
19	27522	BRACKET, ODS, MH18CH		
20	27523	ODS, MH18CH		
21	27526*	ASSEMBLY, BURNER, MH18CH		
22	27941	O-RING, ORIFICE		
23	27527	ORIFICE, MH18CH		
24	27525	BRACKET, VALVE, MOUNT		
25	27532	HOLDER, ORIFICE, MH18CH		

^{*} Burner tiles not included. Order 27533 for complete assembly.





IF SERVICE IS REQUIRED

PLEASE DO NOT RETURN THIS APPLIANCE TO YOUR STORE

For information regarding service, please call our Toll-Free Number: 1-800-251-0001.

Our office hours are 8:00 AM to 5:00 PM, Eastern Time Zone,

Monday through Friday

Please include the model number, date of purchase and description of problem in all communication.

△WARNING Air Quality Hazard

- Do not use this heater for heating human living guarters.
- Use of direct-fired heaters in the construction environment can result in exposure to levels of CO, CO2, and NO2 considered to be hazardous to health and potentially life threatening.
- Do not use in unventilated areas.
- Know the signs of CO and CO2 poisoning.
 - Headaches, stinging eyes
 - Dizziness, disorientation
 - Difficulty breathing, feels of being suffocated
- Proper ventilation air exchange (OSHA 29 CFR 1926.57) to support combustion and maintain acceptable air quality shall be provided in accordance with OSHA 29 CFR Part 1926.154, ANSI A10.10 Safety Requirements for Temporary and Portable Space Heating Devices and Equipment used in the Construction Industry or the Natural Gas and Propane Installation Codes CSA B149.1.
 - Periodically monitor levels of CO, CO2 and NO2 existing at the construction site at the minimum at the start of the shift and after 4 hours.
 - Provide ventilation air exchange, either natural or mechanical, as required to maintain acceptable indoor air quality.

	USA 8-Hr Time weighted average (OSHA 29 CFR 1926.55 App A)	Canada 8-hr time weighted average WorkSafe BC OHS Guidelines Part 5.1 and Ontario Workplaces Reg 833	
CO	50 ppm	25 ppm	
CO ₂	5000 ppm	5000 ppm	
NO,		3 ppm (Reg 833)	
	USA – Ceiling Limit (Short Term Exposure Limit = 15 minutes)	Canada STEL (15 minutes Reg 833/1 hour WSBC) WorkSafe BC OHS Guidelines Part 5.1 and Ontario Workplaces Reg 833	
CO		100 ppm	
CO ₂		15000 ppm (WSBC) 30000 ppm (Reg 833)	
NO ₂	5 ppm	1.0 ppm (WorkSafeBC) 5.0 ppm (Reg 833)	

- Ensure that the flow of combustion and ventilation air exchange cannot become obstructed.
- As the building 'tightens up' during the construction phases ventilation may need to be increased.

Installation of this appliance at altitudes above 2000 ft (610 m) shall be in accordance with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or National Standard of Canada, Natural Gas and Propane Installation Code, CSA B149.1

The heater has been shipped from the factory set up for operation on propane gas.

OPERATING INSTRUCTIONS AND OWNER'S MANUAL

READ INSTRUCTIONS CAREFULLY: Read and follow all instructions. Place instructions in a safe place for future reference. Do not allow anyone who has not read these instructions to assemble, light, adjust or operate the heater.

MR. HEATER



MH18CH



WARNING:

USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH. REPLACEMENT PARTS ARE ONLY AVAILABLE DIRECT FROM THE FACTORY AND MUST BE INSTALLED BY A QUALIFIED SERVICE AGENCY.

PARTS ORDERING INFORMATION:

PURCHASING: Accessories may be purchased at any Mr. Heater local dealer or direct from the factory

FOR INFORMATION REGARDING SERVICE

Please call Toll-Free 800-251-0001

www.mrheater.com • www.enerco.com

Our office hours are 8:00 AM – 5:00 PM, EST, Monday through Friday. Please include the model number, date of purchase, and description of problem in all communication.

WARRANTY

MR. HEATER warrants that Infra Red Heaters manufactured and sold will be free from defects in material and workmanship.

Parts assemblies, controls, etc. furnished by Enerco Group, Inc. will carry a one (1) year warranty on the applicable warranties of the suppliers.

The sole responsibility of Enerco Group, Inc. under this warranty shall be to replace or repair any part for which a written claim is made to Enerco Technical Products within the time limit of this warranty which is returned upon request to Enerco Group, Inc. – F.O.B. Cleveland, Ohio – or F.O.B. any Enerco Technical Products authorized service facility and which is proved to be defective upon inspection by Enerco Technical Products.

This warranty shall not apply to any part or product which has been subjected to misuse or neglect, damaged by accident, or rendered defective by reason of improper installation. THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, and of any other responsibility of Enerco Technical Products for parts or products sold by Enerco Technical Products, including consequential or special damages. This Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Enerco Group, Inc. reserves the right to make changes at any time, without notice or obligation, in colors, specifications, accessories, materials and models.

PRODUCT REGISTRATION: Thank you for your purchase. Please log in to http://www.egiregistration.com to register your product.



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