

OPERATING INSTRUCTIONS AND OWNER'S MANUAL

Model #35-R

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.



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 SUCHAS INSTRUCTION MANUALS, LABELS, ETC., CONTACT THE MANUFACTURER.

WARNING:

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

WARNING: NOTFOR HOME OR RECREATIONAL VEHICLE USE

SPECIFICATIONS

MODEL NO. 35-R

Do not exceed the gas supply pressures shown on rating plate for Model 35-R. 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 0.78 psi (22" w.c.) GAS PRESSURE TO THE GAS CONTROL VALVE.

VENTILATION

WARNING 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 TYPEGAS		NORMAL OPERATING POSTION	CLEARANCESTO COMBUSTIBLES			
	NATURAL	LP & NG		TOP	SIDES	BACK	FRONT
35-R		35,000*	VERTICAL	40"	40"	0"	54"

 $^{\ast}\textsc{Tank}$ size and tank temperature can directly affect BTU output

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FORYOURSAFETY

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 / CGA 2.14 - 2000

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.



Combustion by-products produced when using this product contain carbon monoxide, a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm).

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GENERAL INFORMATION

- A Your 35-R 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 35-R.
- 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. We will send replacements for damaged parts only after receiving a signed inspection report to prove the liability of the freight company.

FOR SAFE OPERATION

- A 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.
- B. 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. Read enclosed Odor Fade and Propane Sheet for additional information about detecting propane leaks. Ventilate the area thoroughly, move the heater outside, and correct the source of the leak before attempting to light any appliance.
- C. Always operate the heater with the LP-Gas cylinder in an upright position on a level non-combustible surface. **NEVER PLACE THE CYLINDER ON ITS SIDE WHEN OPERATING THE HEATER.**
- D. DO NOT attempt to operate the heater with any gas other than that indicated on the heater nameplate.

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 35-R / 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 (see Fig. 4). **DO NOT operate this heater with the LP-gas supply cylinder in any other than the upright position.**

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.

The installer must inform the owner/operator of this appliance that precautions must be taken to protect the appliance from physical damage.

This appliance produces radiant heat. Therefore, it must be located at least six feet away from any LP-Gas container and must not be directed toward any LP-Gas container within 20 feet.

The heater must be installed in a location such that it will not be exposed directly to water spray, rain, and/or dripping water.

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.

Due to high surface and exhaust temperatures, adults and children must odserve clearances to avoid burns or clothing ignition.

PIPING:

For Model 35-R (for use with LP-Gas)

This model may be connected to a self-contained LP-Gas supply system using the hose and regulator assembly supplied with the appliance, OR, it may be connected to a permanently installed LP-Gas supply system.

If connected to a self-contained LP-Gas supply system, the hose assembly must be inspected prior to each use of the heater. If it is evident that there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation.

If connected to a self-contained LP-Gas supply system, the cylinder must have no less than a minimum capacity of 20 pounds and no more than a maximum capacity of 100 pounds of LP-Gas. DO NOT connect this appliance to a cylinder having less than a nominal 20 pound capacity of LP-Gas. DO NOT connect this appliance to more than one (1) 100 pound cylinder.

NEVER USE A FORK LIFT TRUCK TYPE CYLINDER.

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heater

combustion.

WARNING

Asphyxiation Hazard

- Do not use this heater for heating human living guarters.
- · Do not use in unventilated areas.
- . The flow of combustion and ventilation air must not be obstructed.
- · Proper ventilation air must be provided to support the combustion air requirements of the heater being used.
- · Refer to the specification section of the heater's manual,

FUELGASODOR

LP gas and natural gas have man-made odorants added specifically for detection of fuel gas leaks. If a gas leak occurs you should be able to smell the fuel gas. Since Propane (LP) is heavier than air you should smell for the gas odor low to the floor. ANY GAS ODOR IS YOUR SIGNAL TO GO INTO IMMEDIATE ACTION!

- · Do not take any action that could ignite the fuel gas. Do not operate any electrical switches. Do not pull any power source of flame. Do not use your telephone.
- · Get everyone out of the building and away from the area immediately.
- Close all propane (LP) gas tank or cylinder fuel supply valves, or the main fuel supply valve located at the meter if vou use natural das.
- · Propane (LP) gas is heavier than air and may settle in low

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

these odors. (Reference Fuel Gas Odor and Odor Fading sections above.

- · Even If you are not property trained in the service and repair of the heater, ALWAYS be consciously aware of the odors of propane (LP) gas and natural gas.
- · If you have not been properly trained in repair and service of propane (LP) gas then do not attempt to light heater, perform service or repairs, or make any adjustments to the heater on the propane (LP) gas fuel system.
- · A periodic sniff test around the heater or at the heater's joints; i.e. hose, connections, etc., is a good safety practice

areas. When you have reason to suspect a propane leak, keep out of all low areas.

heater dataplate, or contact the Scheu Products Company to determine combustion air ventilation requirements of the

· Lack of proper ventilation air will lead to improper

dizziness and difficulty in breathing.

· Improper combustion can lead to carbon monoxide

carbon monoxide poisoning can include headaches

poisoning leading to serious injury or death. Symptom of

- supply or extension cords. Do not light matches or any other Use your neighbor's phone and call your fuel gas supplier and your fire department. Do not re-enter the building or area.
 - · Stay out of the building and away from the area until declared safe by the firefighters and your fuel gas supplier.
 - FINALLY, let the fuel gas service person and the firefighters check for escaped gas. Have them air out the building and area before you return. Properly trained service people must repair any leaks, check for further leakages, and then relight the appliance for you.

ODOR FADING - NO ODOR DETECTED

· Some people cannot smell well. Some people cannot smell the

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.

ATTENTION - CRITICAL POINTS TO REMEMBER!

· Propane (LP) gas has a distinctive odor. Learn to recognize

under any conditions. If you smell even a small amount of gas, CONTACT YOUR FUEL GAS SUPPLIER IMMEDIATELY. DONOT WAIT!

The connection of Model 35-R 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. Use a 7/8" open end wrench to connect the POL fitting (supplied with the LP regulator) to the LP-Gas cylinder. Turn the POL nut in a counter-clockwise direction (left hand thread) until tight. DO NOT use pipe compound on POL threads.

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/CGAB149.2 (Canada).

If connected to a permanently installed LP Gas supply system, the system requires the use of a two-stage gas regulator assembly which is normally provided by your LP-Gas dealer as part of the LP-Gas supply system. Consult with your local LP-Gas dealer for details concerning proper equipment and installation.

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.

🚹 WARNING

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 HOTDURING NORMAL OPERATION. AVOID PHYSICAL CONTACT.DO NOT MOVE OR HANDLE DURING OPERATION OR UNTIL COMPLETELY COOL.

CAUTION DO NOT PLACE CLOTHING OR OTHER COMBUSTIBLE ATERIALS 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.

LIGHTING AND SHUT-DOWN

Lighting the Heater:

- Before attempting to light the heater, smell all around the heater area for gas. Be sure to smell next to the floor because LP-Gas is heavier than air and will settle on the floor. Turn on the gas supply to the appliance and check all fittings and connections for gas leaks using a mild soap and water solution. Read enclosed Odor Fade and Propane Sheet for additional information about detecting propane leaks. NEVER use a match to check for gas leaks. Should a gas leak occur, shut off the gas supply to the appliance immediately. Wait a minimum of five minutes before repairing the leak.
- 2. Use only the fuel intended for this appliance. Check the appliance rating plate for the correct fuel information.
- 3. Turn off the main gas supply to the appliance. Wait five minutes.
- 4. Turn on the main gas supply.
- 5a. Depress and turn Control Knob counterclockwise to "Pilot" position and hold for 1-2 minutes. This may take longer to purge air from the supply hose depending on the length of the hose being used.

Depress red spark ignition button to light pilot flame (repeat until pilot lights) and continue to hold Control Knob at "Pilot" positionfor 30-60 seconds to enable Pilot Light Safety System.

Fully turn Control Knob to "Hi" position to light burner. or...

5b. With a lighted match held to the burner face, depress and hold the reset button. After the burner ignites, hold the reset button depressed for about one minute or until the burner stays lit when the reset button is released. DO NOT light the gas at the burner orifice. DO NOT face heater when attempting to light. Always stand to the side of the unit when lighting.

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NOTE: In cases where long runs of gas supply lineshave been installed ahead of the appliance, it may be necessary to bleed trapped air out of the supply lines before lighting the burner. New installations generally require bleeding of supply lines. Wait a minimum of five minutes after bleeding the supply lines before attempting to light the heater.

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

Shut-down instructions:

To turn the heater OFF:

- 1. Close the LP-Gas supply cylinder valve.
- 2. Observe the burner until flame is extinguished.
- 3. Listen for closure of the safety valve.
- 4. IMPORTANT: DO NOT re-open the LP-Gas supply cylinder valve before the safety valve closes.

MAINTENANCE INSTRUCTIONS

This heater (including hose and regulator assembly) must be inspected before each use. If the hose for Model 35-R 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.



- 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. Blow air back and forth along the entire burner face until all dust has been dislodged from the surface of the reverberator and grid screen. Blow through venturi from the control end of the heater.

- Clean the orifice of each burner with a #55 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.

TROUBLESHOOTING INFORMATION: (Model 35-R)

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

CHECK

- Loose wires on tipover switch. (see Fig. 4)
- Loose lead wire and repair wires if necessary.
- Loose thermocouple and tighten if necessary. Make sure T/C is located correctly between the reverberator and grid.
- Defective thermocouple. Replace if necessary.
- Defective control. Replace if necessary.
- Defective tip over switch. Replace if necessary.



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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.

REPLACEMENT PARTS LIST

REF.# ITEM#	DESCRIPTION
1 00333	CONT M-N SS PORT 3/8MPXI/4MP
2 02455	BURNR/LTFR PORTABLES/D1096
3 05455	ORIFICE/BURNER #55 DRILL
4 09352	THERMOCOUPLE ASSY/18"
5 09357	TIP-OVER SWITCH 6" LEAD(PORT)
6 09371	JUNCTION BLK ADPTR KIT/TIPSW
7 11695	REC.L/P 21" WC OUT
8 CR705	IGNITOR, MODEL#35
9 CR735	PIEZO, MODEL#35
10 CR710	WHEEL, MODEL#35
11 CR720	AXLE, MODEL#35
12 CR715	AXLE BRACKETS, MODEL#35
13 CR725	HANDLE
14 CR730	WHEEL LOC
15 70722	MAIN FRAME LOWER ASSEMBLY



For information regarding service, please call our Toll-Free Number: 1-888-619-7060

Our office hours are 7:00 AM to 4:00 PM, CT Time Zone,

Monday through Friday

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



OPERATING INSTRUCTIONS AND OWNER'S MANUAL

Model #35-R



WARNING:

USE ONLYMANUFACTURER'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 AQUALIFIED SERVICE AGENCY.

PARTS ORDERING INFORMATION:

PURCHASING: Accessories may be purchased at any SCHEU PROUCTS CO. local dealer or direct from the factory

FOR INFORMATION REGARDING SERVICE

Please call Toll-Free 888-619-7060 E-Mail Address: php@scheuco.com

Our office hours are 7:00 AM – 4:00 PM, CT, Monday through Friday.

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

WARRANTY

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

Parts assemblies, controls, etc. furnished by SCHEU PRODUCT COMPANY will carry a one (1) year warranty on the applicable warranties of the suppliers.

The sole responsibility of SCHEU PRODUCT CO. under this warranty shall be to replace or repair any part for which a written claim is made to SCHEU PRODUCTS CO.within the time limit of this warranty which is returned upon request toSCHEU PRODUCTS CO. F.O.B. RANCHO CUCAMONGA, CA-or F.O.B. any SCHEU PRODUCTS CO. authorized service facility and which is proved to be defective upon inspection by SCHEU PRODUCTS CO.

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 SCHEU PRODUCTS CO. for parts or products sold by SCHEU PRODUCTS CO., including consequential or special damages.

SCHEU PRODUCTS CO. reserves the right to make changes at any time, without notice or obligation, in colors, specifications, accessories, materials and models.



ANSI Z83.7/CGA 2.14-2000

