



OWNER'S MANUAL INSTALLATION AND BASIC OPERATING INSTRUCTIONS FOR

VENTED ROOM HEATER VR85 with TOP COMMAND™

Read this manual carefully before assembling or using this product.
The installer should leave this manual with the consumer and the consumer should retain it for future reference.

DANGER

FAILURE TO FOLLOW THESE INSTRUCTIONS CAREFULLY AND WITHOUT ERROR, OR FAILURE TO HEED ANY AND ALL WARNINGS IN THESE INSTRUCTIONS CAN RESULT IN AN EXPLOSION, FIRE OR THE PRODUCTION OF CARBON MONOXIDE GAS WHICH CAN CAUSE PROPERTY DAMAGE, BODILY INJURY OR DEATH.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

“WARNING: IF NOT INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, THIS PRODUCT COULD EXPOSE YOU TO SUBSTANCES IN FUEL OR FROM FUEL COMBUSTION WHICH CAN CAUSE DEATH OR SERIOUS ILLNESS AND WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. ALSO, OPERATION, INSTALLATION AND SERVICING OF THIS PRODUCT COULD EXPOSE YOU TO AIRBORN PARTICLES OF GLASS WOOL FIBERS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER THROUGH INHALATION.”

Use these instructions as a guide during the installation. It is not possible to adequately define all installation and use circumstances in this manual, therefore, local codes and ordinances governing gas-fired appliances must be followed during installation. In the absence of local codes, install to the current National Fuel Gas Code, ANSI Z223.1-1988.

As the owner of a new Warm Morning vented room heater, you can take pride in owning one of the finest gas heating appliances ever built.

Operating your Warm Morning heater is quite simple. However, the better you understand how it operates, the greater your satisfaction.

IMPROPER INSTALLATION OF THIS HEATER IS DANGEROUS

A person trained and experienced in installing, venting and operating gas-fired heaters should install this heater and connect it to an adequate chimney flue designed for venting gas-fired heaters according to these instructions. This heater is equipped with a Vert Shutoff System designed to prohibit continued operation when not vented properly.

In this manual, the word "WARNING" means that there is a possibility of personal injury to yourself and others.

The Serial Number Plate on your Warm Morning heater shows the model number, serial number, Btu input rating, and the type of gas (natural or propane) for which it has been equipped at the factory. **DO NOT USE** this heater with any other type of gas than that shown on the label.

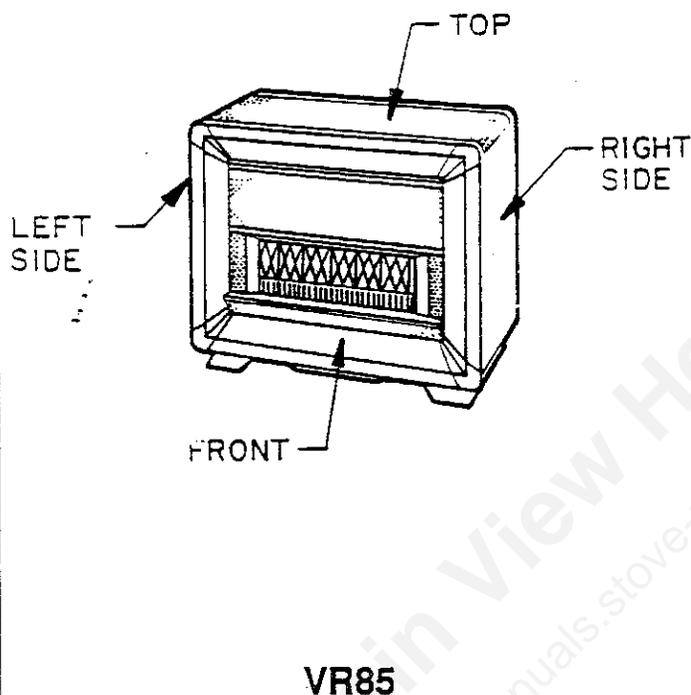
If you write regarding your Warm Morning heater, refer to it by model number, serial number and type of gas burned.

Warm Morning heaters are design-certified by the American Gas Association, and are factory-equipped with a 100% safety pilot and an automatic modulating thermostat gas valve. Your heater may be equipped with a factory-installed optional blower system. All heaters are provided with an internal pressure regulator as part of the combination gas valve.

BECAUSE THIS HEATER GENERATES A HIGH SURFACE TEMPERATURE, OBSERVE THESE PRECAUTIONS TO AVOID FIRES, ASPHYXIATION AND PERSONAL INJURY:

1. DUE TO HIGH TEMPERATURES, THE ROOM HEATER SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.
2. CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION.
3. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE ROOM HEATER.

FIGURE 1A



FOR PURPOSE OF ORIENTATION, THE LEFT AND RIGHT SIDES OF THIS HEATER ARE DETERMINED WHEN FACING THE FRONT OF THE HEATER, REFER TO FIGURE 1A.

DO NOT USE THIS APPLIANCE IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE APPLIANCE AND TO REPLACE ANY PART OF THE CONTROL SYSTEM, AND ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.

4. CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE ROOM HEATER.

5. TO AVOID RISK OF ASPHYXIATION, DO NOT OPERATE RADIANT FRONT ("VR" MODEL) HEATERS WITHOUT ALL THE GLASS SECURELY IN PLACE.

6. REPLACE ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING BEFORE OPERATING HEATER.

7. INSTALLATION AND REPAIR SHOULD BE DONE BY A QUALIFIED SERVICE PERSON. THE ROOM HEATER SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE ROOM HEATER BE KEPT CLEAN.

8. HAVE A PROFESSIONAL REPLACE THE GAS VALVE IF IT HAS BEEN UNDER WATER OR SUBJECT TO OTHER WETTING; THE INTERNAL SAFETY CONTROLS MAY BE DAMAGED.

9. CALL THE FIRE DEPARTMENT IF YOU CANNOT REACH YOUR GAS SUPPLIER WHEN YOU SUSPECT DIFFICULTY.

10. INSTALLATION MUST CONFORM WITH LOCAL CODES OR, IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL FUEL GAS CODE ANSI Z223.1 - "LATEST EDITION". THIS HEATER IS NOT CERTIFIED FOR USE IN MOBILE HOMES, TRAVEL TRAILERS, OR CAMPERS.

1. LOCATION

LOCATE YOUR HEATER OUT OF TRAFFIC AWAY FROM FURNITURE, DRAPERIES AND CURTAINS, AND WHERE THE AIR TO BE HEATED CAN FREELY CIRCULATE AROUND IT.

Have a minimum clearance of 6 inches between objects, walls or other construction, and the left side, as well as the back, of the heater. Keep at least 48 inches between the top of your heater and construction or objects above it. To have ample clearance for servicing the main burner, install your heater with 24 inches between the side access door and the wall.

WARNING: If your heater is to be installed directly on carpeting, tile or other combustible material other than wood flooring, place it on a metal or wood panel, extending its width and depth. The clearance below the heater is measured from the top surface of the flooring, tile or carpet. Failure to adequately protect the flooring under the heater can lead to damage of the flooring material and/or fire. Warm Morning offers a matching stoveboard as an optional accessory.

Don't place clothing or other flammable material on or near this heater. Keep the control compartment, burner and circulating air passageways clear of excessive lint (see Maintenance Sections 10-16). Keep surrounding area clean and free of combustible materials.

Do not install heater in a tightly closed room. Combustion requires a supply of fresh air. Buildings constructed of conventional frame, brick or stone usually provide fresh air infiltration for combustion, ventilation and draft hood dilution. However, if a building is of unusually tight construction, fresh air must be obtained from outdoors or from spaces connecting directly to the outdoors. In such cases, an opening of not less than one square inch per 1,000 Btu per hour of total input rating of all appliances in the house must be provided (i.e., allow 50 square inches opening for a 50,000 Btu heater).

If the heater is for two or more rooms, it is better to have two doorways or openings between rooms to allow a circular movement of air. If there is only one connecting door between rooms, it may be necessary to install a grill or register in the wall between the rooms.

2. UNPACKING AND ASSEMBLY

Your Warm Morning heater comes completely assembled insofar as safe transit and handling permit. Remove the heater from the carton and follow the instructions listed here and in the assembly instructions.

3. FLUE CONNECTION - WARNING

This is a vented room heater which must be properly connected to a chimney flue to carry the combustion products to the outdoors. The only safe vent is a properly installed type "B" vent (certified by a nationally recognized testing agency) or a masonry chimney which is lined and in good condition. The chimney must be at least as large in diameter and preferably no more than one inch larger than the flue outlet on the heater. It must have a vertical rise of at least 12 feet from where it connects to the heater and terminate at least 2 feet above the roof or any construction within 10 feet horizontally.

Be sure the flue or chimney is in good condition - free of leaks, large soot deposits, loose mortar or bricks. If its condition is doubtful, have it cleaned, inspected or repaired before installing the heater.

For proper and safe draft, avoid using more than two elbows in the flue pipe connection between the flue outlet of the heater and the flue inlet of the chimney. Do not extend vent pipe more than one inch into thimble. Horizontal runs of the flue pipe should be kept as short as possible and should slant upward at least 1/4 inch for each running foot.

If heater is installed in front of a fireplace and vented into the fireplace opening, remove the fireplace damper, run flue pipe into the fireplace opening, elbow up and use additional flue pipe to reach up into the chimney. Seal around the flue pipe with sheet metal and furnace cement at the location of the original fireplace damper or at the front of the fireplace opening. Depending on draft, a complete chimney liner may be required.

WARNING:

Do NOT install a damper or barometric draft control in the flue pipe to avoid risk of asphyxiation.

This appliance must NOT be connected to a chimney serving a separate solid fuel burning appliance.

Inspect the venting system periodically to insure safe and efficient operation. If blockage is encountered, take corrective measures. If you see corrosion or damage, replacement or repairs are required to insure safety.

Warm Morning heaters are equipped with an internal draft hood which must be installed in the same room (same atmospheric pressure zone) as the heater's combustion air inlet. Do not recess this heater or connect ducts to it.

WARNING: *Operating this heater when it is not connected to a properly installed and maintained venting system, or tampering with the Vent Shutoff System can result in carbon monoxide (CO) poisoning and possible death.*

The Warm Morning Vent Shutoff System consists of a thermal limit switch attached above the draft hood on the rear of the heater. This switch is incorporated into the thermocouple circuit so that if excessive flue products spill out of the draft hood because the unit is either not connected to an adequate vent or is connected to a blocked vent, the switch will break the thermocouple circuit and cause the unit to completely shut off. The heater will have to be relighted after each firing attempt until the vent problem is remedied.

4. GAS SUPPLY

All gas piping must be installed to comply with local codes, or in the absence of local codes, with the latest edition of the National Fuel Gas Code ANSI Z223.1.

For best results, make sure the gas supply line is of adequate

size. Install a main shutoff valve and union (ground or flanged joint union having a packing that resists the action of LP gases) between the gas control and the gas meter. Do not put any unnecessary strain on the manifold or control valve with a pipe wrench or other tool.

Install a 1/8 inch NPT plugged tapping accessible for test gauge connection immediately above the gas supply connection to the heater.

Install a condensate trap (drip leg) in the supply line adjacent to the connection at the heater.

WARNING: Users of LP/Propane gas

a. Piping and fittings must be approved for use with LP/Propane gas and should be suitable for working pressure not less than 125 lbs. per square inch.

b. Use a pipethread compound specifically resistant to the action of LP/Propane gases which will provide a pure, non-metallic film. **UNDER NO CIRCUMSTANCES SHOULD ORDINARY PIPE DOPE BE USED ON PIPE CONNECTIONS.**

c. Operation of this heater on LP/Propane gas without an approved regulator at the supply container will lead to gas leaks at the control, resulting in possible fire or explosion.

Check the gas line for leaks before lighting the heater. "Brush" a soapy water solution on all connections. Bubbles indicate leaks. **NEVER USE A MATCH OR AN OPEN FLAME TO CHECK FOR A GAS LEAK,** to avoid risk of fire.

Disconnect the heater and its shutoff valve from the gas supply during any pressure testing of the supply at test pressures exceeding 1/2 psig.

Isolate the heater from the supply system by closing the manual shutoff valve during any pressure testing of that system at pressures equal to or less than 1/2 psig.

5. INTERNAL PRESSURE REGULATOR

(NATURAL AND LP/PROPANE GAS)

For the purpose of input adjustment, minimum inlet gas supply pressure must be 4.5 inches WC for Natural Gas and 11 inches WC for LP/Propane. If the inlet pressure is below either of these norms, do not attempt to use the heater or adjust the regulator in the combination gas control.

The maximum inlet gas supply pressure for the purpose of input adjustment is 7 inches WC for Natural Gas and 14 inches WC for LP/Propane.

On Natural Gas, if the line pressure is subject to surges or pressure over 7 inches WC, a pilot regulator is advisable.

While the regulator is factory set, a trained technician can perform a minimum amount of adjustment. This is done by first removing the cap, then turning the adjustment screw clockwise to increase manifold pressure. Turn counterclockwise to decrease manifold pressure. (Manifold pressure should be no higher than that stated on the Serial Number Label attached to the heater: 3.5 inches manifold pressure for Natural Gas and 10 inches for LP/Propane when fired at full rate). Replace cap after all adjustments.

6. SAFETY PILOT

The safety pilot system, part of the combination gas valve, automatically shuts off all gas flow if the pilot light should go out.

The thermocouple is located next to the pilot burner. Its tip is bathed in flame from the pilot burner. As long as the thermocouple is exposed to flame, it generates a flow of electricity to hold the safety valve open. If the pilot flame goes out, the electricity stops and the safety valve closes.

7. LIGHTING PILOT

WARNING:

- a. Difficult lighting may indicate trouble with the gas valve safety controls. Do not force knobs or tamper with control. Call a professional gas appliance service person.*
- b. Any tampering or improper lighting or operating practice is dangerous and can lead to a serious explosion, injury or death.*
- c. Always investigate in and around the heater for the smell of gas before attempting to light the pilot. If gas is detected, do not attempt to light the pilot.*

Do no more than the lighting instructions advise!

A safety "interlock," unique to the gas controls used on Warm Morning heaters, forces you to wait at least 5 minutes after the pilot light has gone out before you can relight it. This allows unburned gas to dissipate before introducing a flame.

FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. THIS APPLIANCE HAS A PILOT WHICH MUST BE LIGHTED BY HAND. WHEN LIGHTING THE PILOT, FOLLOW THESE INSTRUCTIONS EXACTLY.
- B. BEFORE LIGHTING SMELL ALL AROUND THE APPLIANCE AREA FOR GAS. BE SURE TO SMELL NEXT TO THE FLOOR BECAUSE SOME GAS IS HEAVIER THAN AIR AND WILL SETTLE ON THE FLOOR.

WHAT TO DO IF YOU SMELL GAS:
 - DO NOT TRY TO LIGHT ANY APPLIANCE.
 - DO NOT TOUCH ANY ELECTRIC SWITCH; DO NOT USE ANY PHONE IN YOUR BUILDING.
 - IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE. FOLLOW THE GAS SUPPLIER'S INSTRUCTIONS.
- C. IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.
- D. USE ONLY YOUR HAND TO PUSH IN OR TURN THE GAS CONTROL KNOB. NEVER USE TOOLS. IF THE KNOB WILL NOT PUSH IN OR TURN BY HAND, DON'T TRY TO REPAIR IT. CALL A QUALIFIED SERVICE TECHNICIAN. FORCE OR ATTEMPTED REPAIR MAY RESULT IN A FIRE OR EXPLOSION.
- E. DO NOT USE THIS APPLIANCE IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE APPLIANCE AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.

LIGHTING INSTRUCTIONS

1. STOP! READ THE SAFETY INFORMATION ON THE FIRST LABEL.
2. WARNING: OPERATE THE CONTROL VALVE ONLY WITH THE TOP COMMAND KNOB (ILLUSTRATED).
3. TURN THE TOP COMMAND KNOB TO "0" POSITION. FULLY DEPRESS THE KNOB.



TOP COMMAND
KNOB

4. WAIT FIVE (5) MINUTES TO CLEAR OUT ANY GAS. THEN SMELL FOR GAS, INCLUDING NEAR THE FLOOR. IF YOU SMELL GAS, STOP! FOLLOW "B" IN THE SAFETY INFORMATION ON THE FIRST LABEL. IF YOU DON'T SMELL GAS, GO TO THE NEXT STEP.
5. OPEN THE PILOT ACCESS DOOR AND LOCATE THE PILOT MIDWAY OF THE BURNER TOWARD THE FRONT OF THE HEATER.

A diagram showing a hand holding a lit matchstick and lighting the pilot. The pilot is a small flame at the end of a rod, located midway between the burner and the front of the heater. The word 'PILOT' is labeled next to the flame.
6. TURN THE TOP COMMAND KNOB CLOCKWISE TO LIGHT PILOT (AGAINST A STOP - DO NOT PUSH THE KNOB IN AS YOU TURN).
7. TURN THE CONTROL KNOB COUNTER CLOCKWISE TO PILOT, RELEASE.
8. POSITION YOURSELF SO THE PILOT CAN BE SEEN. PLACE A MATCH IN THE LIGHTER ROD, LIGHT IT, THEN USING THE LIGHTER ROD POSITION THE BURNING MATCH JUST ABOVE THE PILOT AS ILLUSTRATED. DEPRESS THE TOP COMMAND KNOB FULLY AND HOLD IT DOWN FOR ABOUT ONE (1) MINUTE AFTER THE PILOT LIGHTS. RELEASE THE KNOB AND IT WILL POP BACK UP. IF IT GOES OUT, REPEAT STEPS 2 THROUGH 7.
 - IF THE TOP COMMAND KNOB DOES NOT POP UP WHEN RELEASED, STOP AND IMMEDIATELY CALL YOUR SERVICE TECHNICIAN OR GAS SUPPLIER.
 - IF THE PILOT WILL NOT STAY LIT AFTER SEVERAL TRIES, TURN THE TOP COMMAND KNOB COUNTERCLOCKWISE TO "0" POSITION, FULLY DEPRESS IT, THEN CALL YOUR SERVICE TECHNICIAN OR GAS SUPPLIER.
8. CLOSE THE PILOT ACCESS DOOR.
9. TURN THE TOP COMMAND KNOB COUNTERCLOCKWISE TO "9." ADJUST THE KNOB BETWEEN "9" AND "0" AS DESIRED.

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TO TURN OFF GAS TO APPLIANCE

1. TURN THE TOP COMMAND KNOB TO "0" POSITION. FULLY DEPRESS THE KNOB, THEN RELEASE.
2. IF THE HEATER IS EQUIPPED WITH OPTIONAL BLOWER, TURN OFF ALL ELECTRICAL POWER TO THE HEATER IF SERVICE IS TO BE PERFORMED.

8. SETTING THERMOSTAT

Your heater has a "modulating" control with a "Top Command" temperature control knob located at the top rear of the cabinet. The temperature is infinitely adjustable between "0" (approximately 55° F) to "9." Start with a trial setting. The control will automatically allow enough gas to go to the burner to maintain the temperature corresponding to the temperature control setting. To maintain warmer temperatures, turn the knob to a higher setting; for cooler temperatures turn it to a lower setting.

Your heater will provide comfortable temperature control because it adds heat into the space at the same rate it is lost. This is a real plus on the Warm Morning heater. If the temperature drops outdoors and the demand for heat increases, the temperature bulb senses this and causes the flame height to increase. The burner flame will shut off whenever the thermostat is satisfied.

The temperature bulb is a copper tube about 3/8 inch thick and 6 inches long. It is fastened to the lower edge of the heater's back. One end of the tube is closed and the other is connected by a thinner tube to the gas control. This is a liquid-filled temperature sensing bulb, an integral part of the thermostat. Room temperature causes the liquid inside this bulb to expand or contract, controlling the flow of gas to the burner. Therefore, do not restrict the flow of air around the back of the heater. If the heater is located near an outside door, cold air blasts will activate the bulb, causing higher temperatures than are actually needed.

For more heat, turn the thermostat up only a little, not all the way to "9." Turning the knob up to "9" will not cause the room to warm any faster. It merely causes the heater to operate longer, resulting in temperatures that are too high.

To reduce temperature, turn the knob down slightly. Turned to "0," your heater will normally maintain a room temperature close to 55° F. To keep the burner off regardless of temperature, turn "Top Command" knob to "Light Pilot." Have your installer check the calibration of the thermostat during installation.

The burner flame should be checked at least 3 times during the heating season. If the flame is yellow or "lifting" (blowing off the top of the burner), turn it off and call a service person or your gas company.

9. BLOWER

Most models of Warm Morning vented heaters can be obtained with factory-installed automatic two-speed "Carpet of comfort" blowers. If your blower was not factory-installed, you can have your dealer install one. The blower must be electrically grounded in accordance with local codes or with the National Electrical Code ANSI/NFPA 70-1990. Failing to adequately ground unit may lead to malfunction of blower motor or electrical shock to user.

Our blowers draw heated air down across the heat exchanger and expel it through a wide fan-shaped duct below the heater cabinet. This creates a desirable flow of warm air across the floor...*a carpet of comfort.*

The blower control is located next to the *Top Command* control panel on the back of the heater. Note that the blower controls allows two modes of operation: Automatic and Manual, with choice of high or low blower speeds.

We recommend you operate the blower on Automatic during the heating season. This permits a temperature-sensitive switch to turn on the blower as soon as the heater produces sufficient heat and turn it off when the temperature decreases. (*Your blower may not come on during mild fall or spring weather because the heater does not get hot enough to warrant it when the main burner is on less than 10-15 minutes.*)

When the blower is set for Manual operation, it is not controlled by the temperature sensitive switch. Some owners operate the blower manually for year-round ventilation.

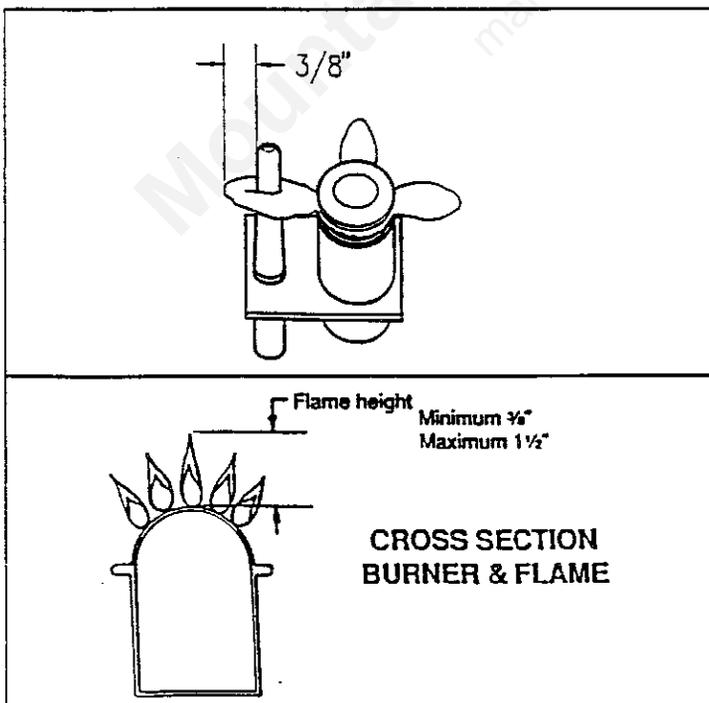
You can use your heater with or without the blower without risk of overheating. This is advantageous in that you still have heat during electric power failures.

10. CLEANING AND CARE OF FINISH

Warm Morning Vented Heaters in "Chestnut Brown" color have a high-gloss, heat-resistant silicone enamel finish.

a. Clean or wipe only when the surface is cool. NEVER attempt to clean the finish when it is warm, you may burn yourself or damage the finish.

b. To remove soil that cannot be wiped or dusted off with a dry cloth, use a mild soap and water. Dry the surface thoroughly before operating the heater.



WARNING!

c. Do not place any item on the heater top or use it for heating water, cooking or for drying wet clothes; this can scratch the finish or create a fire hazard.

d. Do not apply varnish or furniture polish to the heater cabinet.

e. Avoid striking the finish with hard objects or spilling water on it while it is hot.

11. CLEANING HEATER INSIDE

TIPS FOR A QUALIFIED SERVICEPERSON TO PERFORM.

WARNING: Clean the heater after it has cooled and the pilot is turned off to prevent possible burns and damage to vacuum cleaner.

Top surfaces of the heat exchanger seldom need cleaning because the high temperature prevents an accumulation of dust and lint. However, dust and lint may accumulate at various places inside the heater and an occasional cleaning is necessary.

A vacuum cleaner nozzle inserted through the side access door or through openings in the rear of the heater can be used to remove dirt and lint.

12. CLEANING THE BURNER

TIPS FOR THE SERVICEPERSON

A visual check of the main burner and pilot flame should be made periodically during the heating season. It is recommended that it be checked at least three times per heating season.

If excessive yellow tipping of flames are noted, the main burners and auto pilot should be removed and cleaned with a brush and blown out with an air hose.

13. BLOWER CARE

Disconnect the blower power cord from the outlet prior to any servicing. Oil blowers (those that have oiling tubes) twice a season using SAE 20 oil. Do not over-lubricate. A couple of drops in each oil shaft will suffice. A vacuum can also be used to occasionally clean the blower wheel. Accumulations of dirt or lint can cause drag on the motor, eventually resulting in a motor burnout. (Motors without oiling tubes are permanently lubricated and need no oiling).

14. VENTING SYSTEM

To insure safe and efficient operation of the appliance, the complete venting system should be inspected annually for possible damage, corrosion, blockage and proper joint connections.

If blockage of the system is encountered, steps should be taken to relieve the blockage.

If any corrosion or damage is noted, the flue pipe and/or vent cap must be replaced.

15. APPLIANCE AREA

The appliance area must be clear and free from combustible materials, gasoline and other flammable vapors and liquids. Also, the flow of combustion and ventilation air for the appliance must not be obstructed.

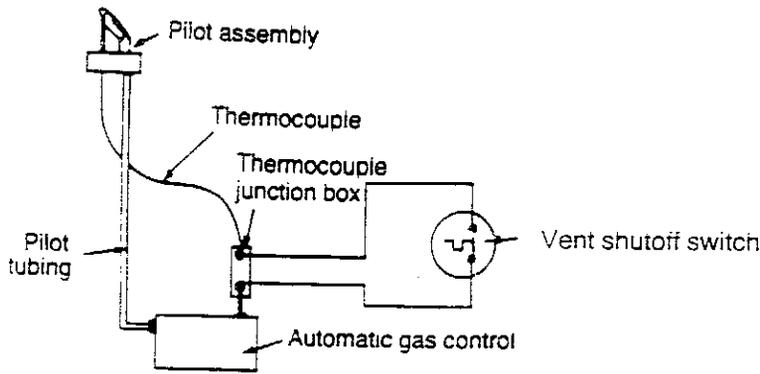
16. PERIODIC MAINTENANCE

Periodic inspections and maintenance are essential. All products and mechanical devices eventually begin to wear due to environment, contamination, erosion or aging of components made of metal or rubber. Inspect all components at least twice a year and have any that show wear repaired or replaced.

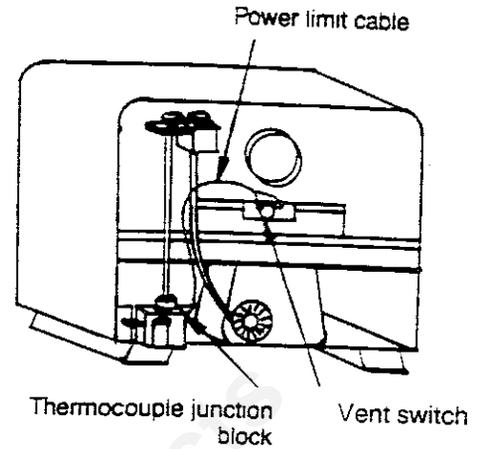
CAUTION!

TO INSURE SAFETY AND GOOD PERFORMANCE, ALL ADJUSTMENTS, SERVICING AND REPLACEMENT PARTS SHOULD BE HANDLED BY YOUR LOCAL WARM MORNING DEALER, YOUR LOCAL GAS COMPANY OR A QUALIFIED SERVICEMAN.

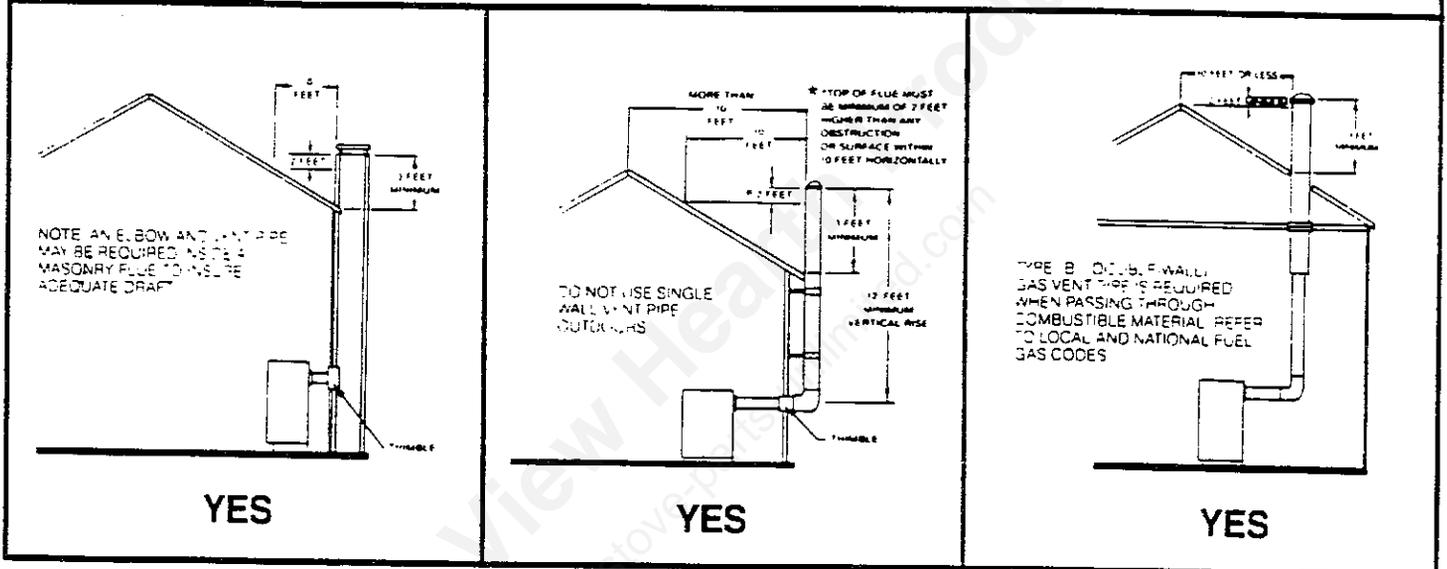
VENT SHUTOFF SYSTEM



VENT SHUTOFF SWITCH COMPONENT

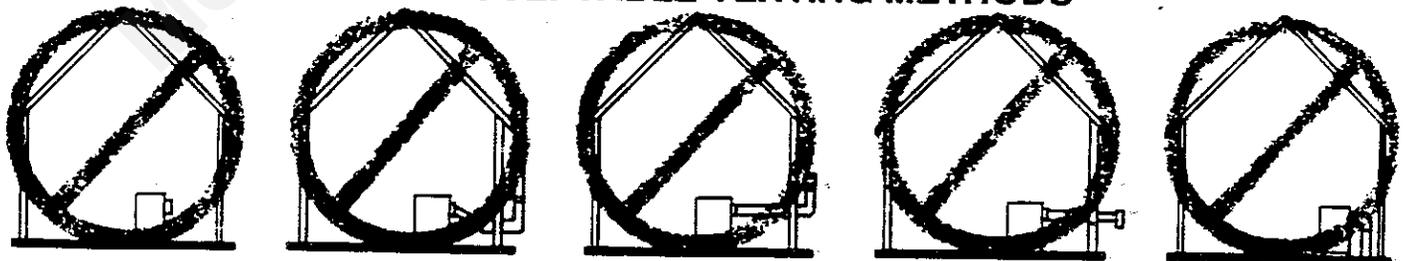


ACCEPTABLE VENTING METHODS



THE FOLLOWING METHODS ARE **WRONG!** IF THE HEATER HAS BEEN CONNECTED IN THE FOLLOWING MANNER IT MUST BE CHANGED **IMMEDIATELY**. WARNING: TO AVOID RISKS DO NOT USE A HEATER THAT IS IMPROPERLY INSTALLED OR VENTED.

NOT ACCEPTABLE VENTING METHODS



NO! Heater must be connected to a chimney (flue).

NO! Vent Pipe connector must not slope down from heater to flue.

NO! Vent Pipe must terminate at a minimum of 2 feet above any surface within 10 feet horizontally.

NO! Vent must have a minimum 5 feet vertical rise from flue outlet of heater.

NO! Vent Pipe must not slope down from heater at any point.

THIS HEATER MUST NOT BE CONNECTED TO A CHIMNEY SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE.

ASSEMBLY INSTRUCTIONS and SERVICE PARTS LIST

Vented Heater Model VR-85

THE INSTALLER SHOULD LEAVE THIS WITH THE CONSUMER AND THE CONSUMER SHOULD RETAIN IT FOR FUTURE REFERENCE.

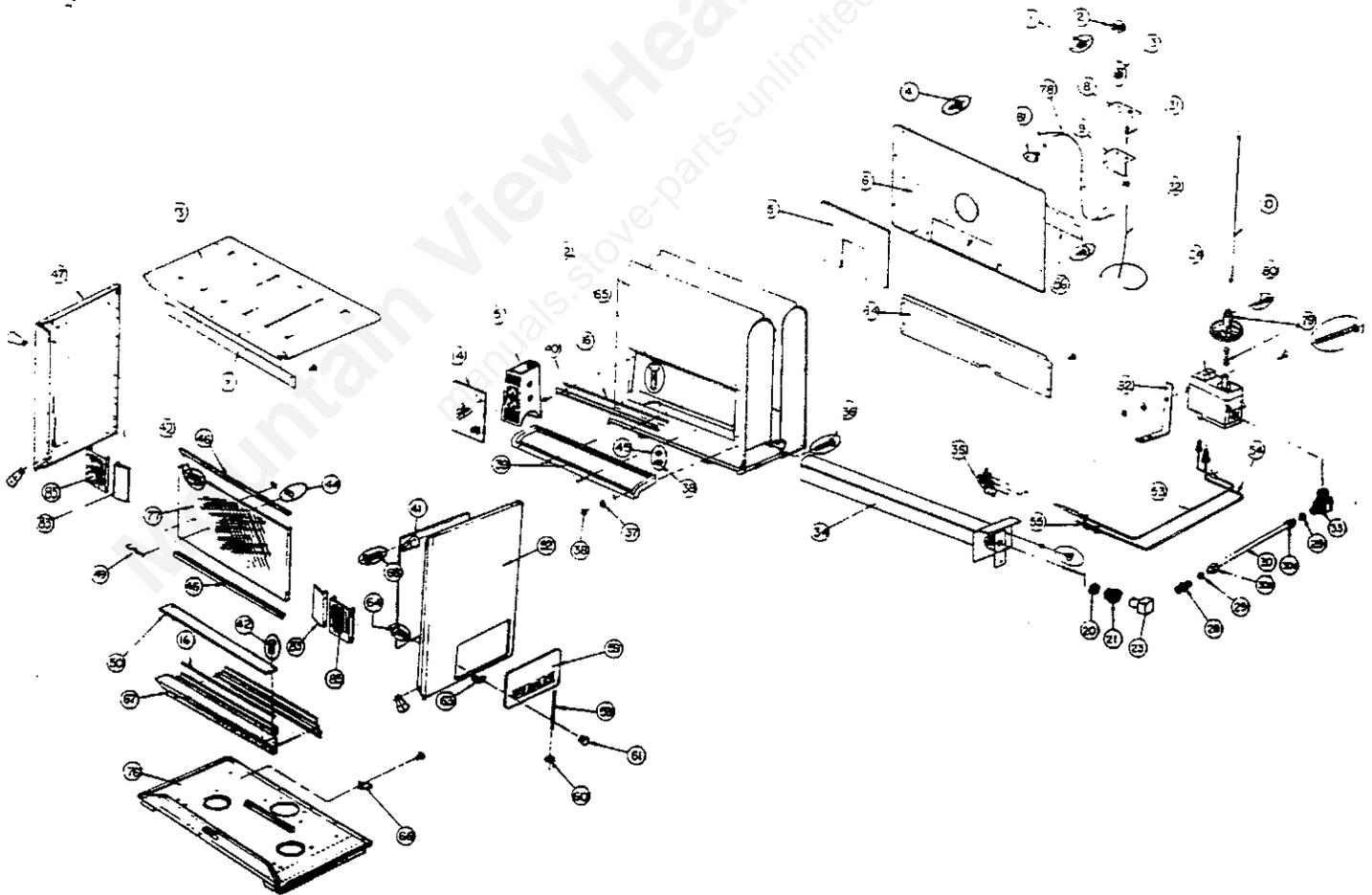
Unpacking and Assembly - Your WARM MORNING Room Heater comes to you completely assembled insofar as safe transit and handling will permit. Remove heater from carton and follow instructions listed here and in Owner's Manual.

When ordering repair parts, order from:
Customer Service Department

WARM MORNING

A Division of Martin Industries, Inc.
4251 St. Clair Ave.
Washington Park, Illinois 62205

Order by part number and part name, not key number.
You must include model number and serial number of heater to ensure prompt and correct filling of the order.



SERVICE PARTS LIST FOR VR-85

When ordering parts always include the complete Model and Serial Numbers as they appear on the label affixed to your heater.

ITEM	PART NO. VR-85	DESCRIPTION
1		Knob Retaining Screw
2	878271	Top Command Knob
3	M140B	Grommet
4	HD473	3/8" Sheet Metal
5	672488	Draft Hood Insulation
6	847345	Upper Rear Panel
7	793848	Body Top Front Shield
8	878248	Temperature Control Marking Plate
9	878216	Top Command Bracket
10	878188	Control Rod
11	672452P	Lower Rear Panel
12	794134P	Combustion Chamber
13	63394P	Top Panel
14	878180 (QTY 3)	Glass Panels
15	640C (QTY 7)	Radiant
16	6320013 (44.4")	Gasket
17	DNA	Center Baffle (for units w/o Blower)
18	6320013(44.4")	Gasket
19	DNA	
20	053183	Orifice, Natural Gas
	053184	Orifice, LP Gas
21	Supplied with 021683	
22	DNA	
23	021683	Fitting/Nut
	375X250	Pipe Nipple
24	878311	Natural Control
	878312	LP Control
25	DNA	
26	DNA	
27	DNA	
28	025660	Fitting
29	032099	Ferrule
30	053162	Tubing
31	DNA	Piezo Ignitor
32	DNA	Ignitor Wire (34.7")
33	036078	Fitting
34	794137	Burner
35	0140511	Natural Pilot
	0140501	LP Pilot
36	HD279	Phillips Screw
37	HD533	Lockwasher
38	HD226	Square Nut
39	VR855	Radiant Support
40	878504	Upper Glass Retainer
41	63341	Chrome Corner Trim
42	HD311	1/2" Phillips Screw
43	HD306	3/8" Phillips Type A
44		8-32 Hex Nut
45		#8 Shakeproof

SERVICE PARTS LIST FOR VR-85

...CONTINUED FROM PREVIOUS PAGE...

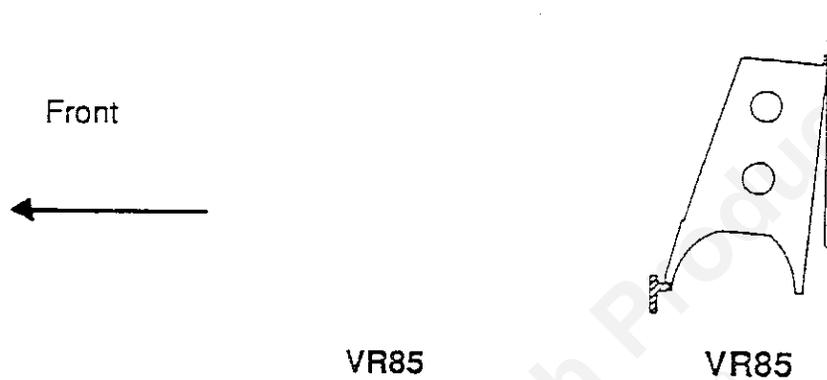
ITEM	PART NO. VR-85	DESCRIPTION
46	63465	Chrome Screen Trim
47	794131P	Left Side Panel
48		DNA
49	85622401	Warm Morning Nameplate
50	63348	Chrome Hearth
51		DNA
52	794130P	Right Side Panel
53	0270501	29.5" Thermocouple
54	867941	Pilot Tubing w/Fitting
55	0977139	Propane Pilot Orifice
	0977137	Natural Pilot Orifice
56	DNA	
57	DNA	
58	177X8875	Hinge Rod
59	878257P	Side Door
60		Washer
61	783486	Side Door Knob
62	63344P	Side Door Baffle
63	794079P	Side Door Catch
64	HD311	1/2" Phillips Truss
65	DNA	
66	C460670204	Thermobulb Clip
67	794136P	Hearth
68	HD343	1/2" Phillips Rosette Head
69	DNA	
70	DNA	
71	DNA	
72	DNA	
73	DNA	
74	DNA	
75	HD230	1/4-20 Square Nut
76	794132P	Cabinet Bottom
77	793861P	Front Screen
78	857585	Power Limit Cable
79	0997215	Remote Adaptor w/Spring
80		Cotter Pin
	DNA	Rear Panel Shield
81	906240	Vent Safety Switch
82	878192	Control Mounting Bracket
83	893068	Chrome Wing (2)
84	DNA	Baffle Center
85	893067	Wing Extension
86	DNA	Rear Panel Shield

Our program of product improvement is a continuous, ongoing process.
We must therefore reserve the right to make changes in the models shown, without notice or obligation.

WARM MORNING RADIANT FRONT VENTED ROOM HEATER

Ceramic Radiant Installation

To install the ceramic radiants, remove all packaging from the front window of the heater. Unpack the ceramic radiants and discard the packaging material. Handle the radiants carefully.



For **VR85**, place the front leg of the seven radiants on top of the radiant support just inside the window, behind the hearth. There is no back radiant support. The back leg of the VR85 radiants are suspended above the burner, with the top, rear of the radiants resting against the combustion chamber.

Glass Panel Installation

To install the glass, first carefully unpack and discard the packaging material. With a phillips screwdriver, remove the two sheet metal screws that hold the upper glass retainer and gasket in place along the top of the window opening. Position the glass in the lower glass channel at the bottom of the window, and let the top of the glass rest against the top window frame. Notches are provided in each end of the retainer to secure the rope gasket. Position the retainer and gasket along the top edge of the glass and secure in place with the two sheet metal screws. Do not overtighten. The glass does not need to be held rigidly.

<u>Model</u>	<u>Qty Radiants</u>	<u>Radiant No.</u>	<u>Qty Glass</u>	<u>Glass No.</u>	<u>Glass Size</u>
VR85	7	640C	3	878179	7" x 7"

Mountain View Hearth Products
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WARM MORNING

A Division of Martin Industries, Inc.

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