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Instructions for Rasmussen Chillbuster "Evening Embers" (C-7 or DFC-7) Manual, Switch or Remote Control, Natural and Propane **Gas Log Room Heater Models:**

| 18", 24" or 30" SINGLE BURNER Manual Control | (HG) (18, 24, 30) - C7-M- (N,P) |
|---|-----------------------------------|
| 18", 24" or 30" SINGLE BURNER Switch Control | (HG) (18, 24, 30) - C7-S- (N,P) |
| 18", 24" or 30" SINGLE BURNER Remote Control | (HG) (18, 24, 30) - C7-R- (N,P) |
| 18", 24" or 30" SINGLE BURNER Manual Control | (HH) (18, 24, 30) - DFC7- M-(N,P) |
| 18", 24" or 30" SINGLE BURNER Switch Control | (HH)(18, 24, 30) - DFC7- S-(N,P) |
| 18", 24" or 30" SINGLE BURNER Remote Control | (HH)(18, 24, 30) - DFC7- R-(N,P) |

THESE GAS LOG HEATERS ARE CERTIFIED TO THE FOLLOWING STANDARDS:

- UNVENTED ROOM HEATER ANSI Z21.11.2a 2001
- VENTED DECORATIVE APPLIANCE ANSI Z21.60b 2001 * CGA 2.26b-2001

Read these Instructions carefully and retain them for future use.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Read these instructions thoroughly before installation. For assistance or additional information, consult your gas log dealer, qualified installer, service agency or gas supplier.

Design certified for installation only in a solid-fuel burning masonry or UL 127 factory-built fireplace or in a listed ventless firebox enclosure. DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

Do not use this CHILLBUSTER as a Vent Free Heater in sleeping quarters, bathrooms or recreational vehicles.

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

This appliance may be installed in an after permanently market. located. manufactured (mobile) home, where not prohibited by local codes.

This appliance is for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

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 neighbors phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to Section "PROVISIONS FOR ADEQUATE COMBUSTION AND VENTILATION AIR" (pages 4 and 5.)

ALL APPLICATIONS (Installation)

ALL APPLICATIONS-IMPORTANT NOTICE

- Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room with the appliance.
- Do not place clothing or any other flammable material on or near the appliance.
- Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the heater.
- **WARNING:** During manufacturing, fabricating, and shipping, various components of CHILLBUSTER are treated with certain oils or films. These are not harmful but may produce annoying smoke and smells as they are burned off during the initial operation of the appliance, possibly causing headaches or eye or lung irritation. This is a normal and temporary occurrence. The initial break-in operation should last 2-3 hours with the burner at the highest setting. Provide maximum ventilation by opening windows, doors, and the chimney flue to allow odors to dissipate. The only odor remaining after this initial break-in will be the normal odors associated with the combustion of Natural or Propane gas.
- This appliance is equipped with an ODS (OXYGEN DEPLETION SENSOR) pilot light safety system designed to shut itself off if not enough fresh air is available. Additional ventilation may be obtained by opening a window or a door to another room.
- Although your CHILLBUSTER is very realistic in appearance, it is not a real wood burning fireplace. Matches, paper, garbage, or any other material must not be thrown on top of the logs or into the flames.
- Avoid contact with the logs, grate, or any other part which may be hot.
- Always ensure that the fireplace screen is closed when the appliance is operating.

ALL APPLICATIONS-IMPORTANT INSTALLATION INFORMATION

WARNING: Design certified for installation only in a solid-fuel burning masonry or UL 127 factory-built fireplace or in a listed ventless firebox enclosure. It has been design certified for these installations. DO NOT install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

"WARNING: Any change to this heater or its controls can be dangerous."

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional 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 appliance be kept clean.

State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes. If not permitted, you may install and operate CHILLBUSTER as a vented appliance. (See "VENTED OPERATION" page 3).

This appliance is for supplemental heating only. It should not be used as the primary heat source for a dwelling.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

"WARNING: Failure to keep the primary air opening(s) of the burner(s)clean may result in sooting or property damage."

- 1. This appliance may be installed in an after market, permanently located, manufactured (mobile) home, where not prohibited by local codes.
- 2. This appliance is for use with the type of gas indicated on the rating plate. This appliance is not field convertible for use with other gases. **Gas type conversion may only be accomplished at the factory.**
- 3. 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. If local valve is not already installed, install a gas valve on the supply line in or just outside the fireplace.
- 5. A fireplace screen must be in place when the CHILLBUSTER is in operation and, unless other provisions for combustion air are provided, the screen shall have opening(s) for introduction of combustion air. Glass doors are not certified with the CHILLBUSTER. However, if used, **Glass Doors must be wide open when the burner is on** to allow air for safe combustion, cooling of components and venting. Adequate clearances must be provided around fireplace opening for adequate combustion and proper operation. (see page 5)

ALL APPLICATIONS (Installation)

Fireplace/Firebox Sizing (VENTED and VENT-FREE):

1. The minimum size (in inches) of the fireplace in which this CHILLBUSTER is to be installed must be as follows:

| SET SIZE | MODEL NUMBER | FRONT WIDTH | HEIGHT | DEPTH |
|-------------|---|-------------------|--------|-------|
| 18 | (HG)(18)-C7-(M,S,R)-(N,P) (20,000; 33,000) BTU/HR | 24 | 17 | 12 |
| 24 | (HG)(24)-C7-(M,S,R)-(N,P) (20,000; 33,000) BTU/HR | 30 | 17 | 12 |
| 30 | (HG)(30)-C7-(M,S,R)-(N,P) (20,000; 33,000) BTU/HR | 36 | 17 | 12 |
| 18 | (HH)(18)-DFC7-(M,S,R)-(N,P) (20,000; 33,000) BTU/HR | 24 | 17 | 16 |
| 24 | (HH)(24)-DFC7-(M,S,R)-(N,P) (20,000; 33,000) BTU/HR | 30 | 17 | 16 |
| 30 | (HH)(30)-DFC7-(M,S,R)-(N,P) (20,000; 33,000) BTU/HR | 36 | 17 | 16 |

Gas Supply and Pressure (VENTED and VENT-FREE):

- 1. **Natural Gas:** The minimum inlet gas supply pressure for the purpose of input adjustment shall be 5 inches of water column. The maximum inlet gas supply pressure shall be 7 inches of water column.
- 2. **Propane Gas:** The minimum inlet gas supply pressure for the purpose of input adjustment shall be 11 inches of water column. The maximum inlet gas supply pressure shall be 14 inches of water column.

The Propane source must be regulated. Never connect CHILLBUSTER directly to an unregulated Propane tank.

Preparation Of Fireplace (VENTED and VENT-FREE):

1. Ensure firebox and chimney damper/flue are thoroughly cleaned (if previously used for either gas or wood burning.)

WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner.

- 2. The area around the CHILLBUSTER must be clear and free from combustible materials, gasoline and any other flammable vapors and liquids. Provide adequate clearances for servicing and proper operation.
- 3. Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at time of installation.

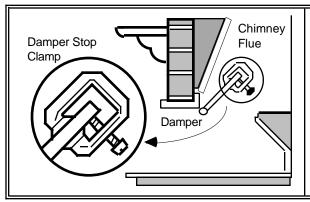
WARNING: Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.

Pressure Testing (VENTED and VENT-FREE):

- 1. Use Propane Gas resistant compound on all pipe fittings (not on connections with flared fitting).
- 2. The CHILLBUSTER and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). The CHILLBUSTER must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).
- 3. Test new piping for leaks using soap solution. Do not use open flame to flame test.

VENTED INSTALLATION (Additional Requirements)



General Information (VENTED):

- 1. The minimum permanent free opening of the fireplace chimney or chimney damper must be at least **29** sq. inches based upon a minimum chimney height of at least 10 feet.
- 2. Solid fuels shall not be burned in a masonry or UL 127 factory built fireplace where a CHILLBUSTER is installed.

Damper Clamp (VENTED):

 The chimney damper must be fixed in a manner to maintain permanent free opening as (outlined in item above) at all times. To accomplish this, install the damper clamp (provided) on the edge of the damper blade to prevent its closing, or drill holes in the damper.

VENT-FREE APPLICATIONS (Additional Requirements)

- 1. Do not use this CHILLBUSTER as a Vent Free Heater in sleeping quarters, bathrooms or recreational vehicles.
- 2. When operated as a **VENT FREE** heater, the minimum clearances from the fireplace opening to combustible materials must be maintained as outlined in section "CLEARANCES TO COMBUSTIBLES" (page 6).
- The installation and the provision for combustion and ventilation air must conform with the National Fuel Gas Code ANSI Z223.1 latest edition.

Provisions For Adequate Combustion And Ventilation Air (VENT-FREE):

This heater shall not be installed in a "confined" space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

Confined Or Unconfined Space Determination (VENT-FREE)

The National Fuel Gas Code defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8m³ per kW) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8m³ per kW) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

| Calculations To Determine Confined Or Unconfi | ned Space (VENT-FREE): |
|--|--|
| 1. Determine number of rooms (including adjoining rooms | Example: |
| with doorless passageways or ventilation grates.) | Living room/dining room + Kitchen |
| 2. Determine the Total Volume of the Space (width | |
| x length x height). | Total Volume of Space 3008 cu ft |
| 3. Divide the total space volume by 50 cuft to determine | |
| the Maximum Supportable Btu/Hr. | Maximum Supportable Btu/Hr = 60,160 Btu/Hr. |
| 4. Add the rated (Btu/hr) of all fuel burning appliances in the "space" to determine Actual Btu/Hr Used . | Vent free gas log heater 40,000 Btu/Hr Gas water heater 32,000 Btu/Hr |
| | Actual Btu/Hr Used 72,000 Btu/Hr |
| | Note: Do not include direct vent gas appliances. |
| | Maximum Supportable Btu/Hr=60,160 Btu/Hr |
| 5. Compare Maximum Supportable Btu/Hr against | Actual Btu/Hr Used= 72,000 Btu/Hr |
| Actual Btu/hr Used. | Excess Btu/Hr= 11,840 Btu/Hr |
| / 1010a. = 10/ 000a. | Excess Bla/III |

- If Actual Btu/Hr Used is greater than Max Supportable Btu/Hr then space is CONFINED.
- If the Actual Btu/Hr Used is less than Maximum Supportable Btu/Hr then space is UNCONFINED. In the example, because the Actual Btu/Hr Used exceeds the Maximum Supportable Btu/hr the space would be considered a Confined Space requiring you to either increase the Maximum Supportable Btu/Hr, decrease the Actual Btu/Hr Used or operate as a Vented Appliance (see page 3).

Adequate Combustion And Ventilation Air Options (VENT-FREE):

- Increase the **Maximum Supportable Btu/Hr** by adding to the number of rooms which comprise the "Space". To do this you must ether completely remove the door to an adjoining room or provide two permanent ventilation grills; one within 12" of the ceiling and another within 12" of the floor.
- Increase the **Maximum Supportable Btu/Hr** by providing extra fresh air using ventilation grills and ducts to the outdoors. You must provide two permanent openings, one within 12" of the ceiling and another within 12" of the floor. Connect these directly to the outdoors or spaces open to the outdoors, e.g., attics or crawl spaces.
- Follow the National Fuel Gas Code NFPA 54/ANSI Z223.1, Section 5.3, Air for Combustion and Ventilation for required size of ventilation grills or ducts.
- Lower the **Actual Btu/Hr Used** by relocating other gas burning appliances outside the "space" or installing a lower Btu/Hr heater. In the example, the maximum Btu/Hr of the heater could be no more than 28,160 Btu/Hr.

Because the **Actual Btu/Hr** used is now less than the **Maximum Supportable Btu/Hr**, the space is considered an **Unconfined Space**. No additional fresh combustion and ventilation air would be required.

| | VENT-FREE APPLICATIONS (Additional Requirements) | | | | | |
|----------|---|-------------------|--------------------|---------------|------------------------|-------------------------------|
| | COMBUSTION AIR CALCULATIONS WORKSHEET | | | | | |
| 1. | Room | Width | Length | H | leight | W×L×H=Vol. (ft ³) |
| 1a. | | | | | | |
| 1b. | | | | | | |
| 1c. | | | | | | |
| 1d. | | | | | | |
| 2. | Total Volume (ft ³ | sum of Volume (ft | 3) of all rooms | (sı | um lines 1a. thru 1d.) | 2. |
| 3. | Max Supportable Btu/Hr=Total Volume (ft ³) \div 50 x 1000 (line 2 \div 50 x1000) 3. | | | | | |
| 4. | 4a. Btu/hr | 4b. Btt | √hr 4c. | Btu/hr 4 | d. Btu/hr | |
| İ | Actual Btu/hr use | | all fuel burning a | opliances ins | | |
| <u> </u> | identified as rooms 1a. | | | | (sum line 4a thru 4d.) | 4. |
| 5. | (Maximum Suppo | rtable Btu/Hr) m | inus (Actual B | u/hr Used | (Line 3 - line 4) | 5. * |

- If Line 5 is greater than zero, the Actual Btu/Hr Used is less than the Maximum Supportable Btu/Hr and the space is considered UNCONFINED. No additional fresh combustion and ventilation is required.
- * If Line 5 is zero or less, the Actual Btu/Hr Used is greater than Maximum Supportable Btu/Hr and the space is CONFINED. You must either increase the Maximum Supportable Btu/Hr, decrease the Actual Btu/Hr Used or operate as a Vented Appliance (see page 3).

WARNING: If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1, 1992, Section 5.3 or applicable local codes.

Unusually tight construction is construction where:

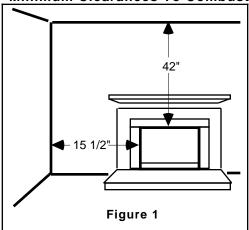
- a) Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of 1 perm or less with openings gasketed or sealed, and
- b) Weather stripping has been added on openable windows and doors, and
- c) Caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

WARNING: CARBON MONOXIDE POISONING MAY LEAD TO DEATH

When used without fresh air, gas log sets may give off carbon monoxide, an odorless, colorless, poisonous gas. Some people, pregnant women, persons with heart or lung disease, anemia, or under the influence of alcohol and persons at high altitudes are more affected by carbon monoxide than others. Early signs of carbon monoxide poisoning resemble the flu: Headache, dizziness, and/or nausea. If you have these signs, the gas log may not be installed or working properly, or the chimney flue may be blocked. GET FRESH AIR AT ONCE! Have gas log set and chimney flue serviced before using again.

OPEN A WINDOW AN INCH OR TWO FOR ADEQUATE COMBUSTION AND VENTILATION AIR WHEN USING YOUR VENT FREE GAS LOG ROOM HEATER

Minimum Clearances To Combustibles (VENT-FREE):



Side wall: 15 1/2" from side of fireplace opening. Figure 1
Ceiling: 42" from top of fireplace opening. Figure 1
Mantel: See Charts and Diagrams shown at Figures 2 and 3

NOTE: "Clearances to Combustible Construction" are those distances required to ensure that a fireplace mantel or facing will not catch fire. In most cases they should also be adequate to prevent any discoloration or warping due to heat. However, each and every Gas Log Installation (CHILLBUSTER included) presents a different and completely unique set of circumstances involving many variables beyond the control of the Gas Log Manufacturer. These include paint or finish composition, previous exposure to heat, methods and quality of construction, air flow patterns, glass doors, fans or blowers, etc.. Because of these variables, we cannot guarantee that heat

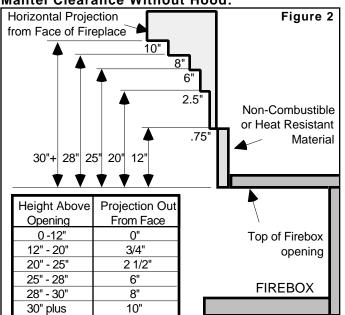
warping or discoloration will never occur. The potential for heat warping or discoloration may exist whether you are burning a CHILLBUSTER, some other manufacturer's Gas Log or even wood.

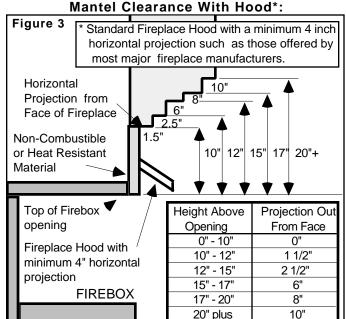
VENT-FREE APPLICATIONS (Additional Requirements)

Fireplace Hoods (VENT-FREE)

A fireplace hood deflects heat away from the fireplace face and mantel, reducing the potential for heat related warping or discoloration. **The use of a fireplace hood is highly recommended.** Fireplace Hoods are offered by many leading fireplace manufacturers.

Mantel Clearance Without Hood:

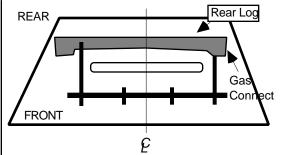




IF YOU CANNOT MEET THESE MINIMUM CLEARANCES YOU MUST OPERATE HEATER WITH CHIMNEY FLUE DAMPER OPEN (Operate as a VENTED Heater - See Page 3).

ALL APPLICATIONS (VENTED and VENT FREE OPERATION)

Installing Chillbuster 5 Burner Unit Into Fireplace:



With Rear Log on grate, place grate/control assembly inside firebox or approved enclosure. Center left to right with the back portion of the grate assembly as far to the rear of the firebox as possible.

Remove Rear Log. Connect CHILLBUSTER to gas supply line with supplied semi- rigid aluminum connector and wrench tighten. **Do not use** pipe compound on the flared connector fittings on supplied manifold.

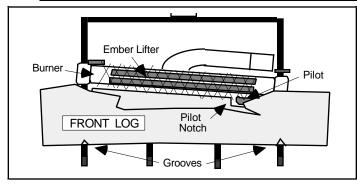
Turn on the gas valve at the supply line in the fireplace. Check connections for gas leaks by using a soapy solution. **Do not use open flame.**

Volcanic Ash Placement: Sprinkle the VOLCANIC ASH around the firebox floor.

NEVER PLACE VOLCANIC ASH ON TOP OF ANY BURNER.

Log Placement:

NOTE: To ensure optimum performance, logs must be placed on burner as depicted.



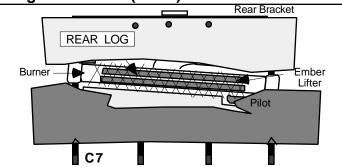
- 1. FRONT LOG: Align LOG GROOVES with Grate Teeth. Slide leading edge of FRONT LOG beneath EMBER LIFTER maintaing PILOT NOTCH to PILOT position as shown.
- 2. REAR LOG (C7):
 Align LOG GROOVES with BUF

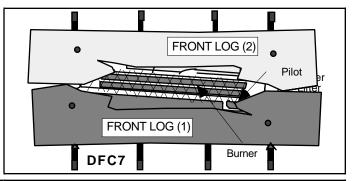
Align LOG GROOVES with BURNER ENDS and position REAR LOG between BURNER and REAR BRACKET

FRONT LOG (2) DFC7 AlignLOG GROOVES with Grate Teeth. Slide leading edge of FRONT LOG beneath EMBER LIFTER.

ALL APPLICATIONS (VENTED and VENT FREE OPERATION)

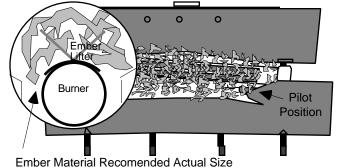
Log Placement (cont.)





EMBER MATERIAL: With the FRONT and REAR LOGS on the Grate as shown, pull apart the EMBER MATERIAL into long loose, thin pieces and drape them over the EMBER LIFTER. The pieces should be no more than one to two pieces of ember material in depth. To enhance ember performance, after approximately 5 minutes of burn time, gently loosen and lift EMBER MATERIAL.

NOTE: Thinner, less densely packed Ember Material pieces enhance the overall glowing ember effect. The looser the pieces, the better the glowing ember effect!



"Char Effect"

Right Top Log

WARNING: Excessive amounts of Ember Material or Ember Material which is too tightly packed can result in decreased combustion performance and elevated levels of carbon monoxide.

'Char Effect

_eft Top Log

Top Logs:

- 1. LEFT & RIGHT TOP LOGS: Place LEFT and RIGHT TOP LOGS over Left and Right Pins on REAR LOG (C7) or the two FRONT LOGS (DFC7). Position as shown
- 2. **CENTER LOG**: Using the log locator hole and pin, place the CENTER LOG onto the CENTER PIN REAR LOG (C7) or on the two FRONT LOG pins (DFC7).

WARNING: Failure to position parts accordance with these diagrams or failure use only parts specifically approved with this heater may result in property personal injury.

Volcanic Ash Placement: Place VOLCANIC ASH only on the firebox floor. NEVER PLACE VOLCANIC

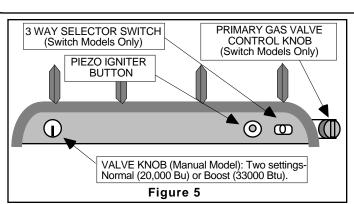
Pins DFC7 ASH (or any material other than the EMBER MATERIAL provided) ON TOP OF BURNER!

LIGHTING and OPERATION Control Locations and Description

Manual Models (C7-M or DFC7-M) Valve Knob (Manual Control): Pilot Lighting, Burner Selection (NORMAL-20,000 Btu or BOOST-30000 Btu). (Figures 5 and 6).

Switch Models (C7-S or DFC7-S)

- **Primary Gas Valve Control Knob (Switch** Models): Pilot Lighting and Valve gas output adjustment from OFF to FULL. See Figure 8.
- 3 Way Selector Switch: Mode selections: SWITCH ON, OFF or REMOTE ACCESS ON. Fig 7. All Models
- Piezo Ignitor Button: Pilot Flame Ignition.



C7

Center Log

ALL APPLICATIONS (VENTED and VENT FREE OPERATION)

C7-M or DFC7-M (MANUAL CONTROL) LIGHTING and OPERATION

Pilot Lighting:

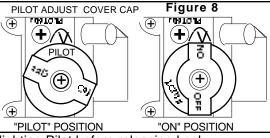
- 1. Push in Valve Knob and turn completely clockwise to "OFF". Figures 5 and 6
- Wait five minutes before lighting.
- 3. Slightly push in the Valve Knob and turn counter clockwise to the "PILOT" position (the first detent counter clockwise from "OFF").
- 4. Fully depress valve knob until air is bled and gas flows to pilot. Press Piezo Ignitor Button (Figure 5) to light pilot. Hold valve knob in until Pilot remains lit when knob is released (approximately 30 seconds).
- 5. If the appliance fails to light or if pilot goes out, repeat steps 1 through 5.

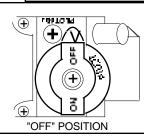
Burner Lighting: Depress valve knob and slowly turn counter-clockwise to "ON-NORMAL" (next detent counter clockwise from "PILOT"). This is the normal operating setting. Continue to turn valve knob counter clockwise to the "BOOST" setting to obtain maximum heat output.

Shutdown: For complete shutdown (including Pilot), push Valve Knob in and turn fully clockwise to "OFF".

C7-S or DFC7-S (Switch Control) LIGHTING and OPERATION **Pilot Lighting:**

- Depress and turn the Primary Gas Valve Control Knob (located at the base of the right rear grate leg, clockwise to the "OFF" position. See Figures 5 and 8.
- Place the 3 Way Control Selector Switch in OFF (Fig 7). Turn off all Remote Accessory Controls (Switch or Hand Held Remote) or place Thermostat to lowest setting.
- Wait at least 5 minutes prior to lighting
- 4. Depress and turn Primary Gas Valve Control Knob counter clockwise to the "PILOT" position. (Figure 8)
- 5. Depress fully and hold in the **Primary** Gas Valve Control Knob until all air is bled and gas flows to pilot.
- 6. Press Piezo Ignitor Button (Figure 3) to light pilot. Continue to hold in Primary Gas Valve Control Knob until the Pilot flame remains lit when knob is released (approx 60 to 90 seconds). If Pilot does not remain lit, repeat steps 1. through **5**. and allow additional time after lighting Pilot before releasing knob.





SWITCH OFF REMOTE

3 WAY CONTROL SELECTOR SWITCH

Figure 7

ON

ACCESS

BOOST

AT PILOT POSITION SLIGHT PUSH TO TURN OFF FULL PUSH TO LIGHT

■ NORMAL

OFF

Manual Valve Knob

Figure 6

■ PILOT

Switch Control (Manual ON-OFF): After successful pilot lighting, allow 60-90 seconds for the Thermogenerator to heat up. To turn burner on, place Control Selector Switch in the "ON" position (see Figure 7). To turn burner off (pilot remains lit) place Control Selector Switch in the "OFF" position. NOTE: Flame size at the burner is adjustable at the **Primary Gas Valve Control Knob** (see Figure 8).

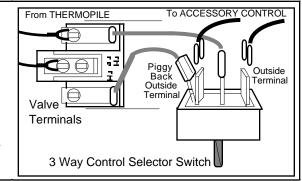
Shutdown: For complete shutdown (including Pilot), place Control Selector Switch in the "OFF" position and push Primary Gas Valve Control Knob (Fig 8) in and turn fully clockwise to "OFF".

Switch Accessory Wiring:

Wiring from the Accessory Control (Remote, Thermostat or Switch) is connected to the two outside terminals of the Control Selector Switch as shown.

NOTE: Wire length for Thermostat or Remote or controls should not exceed 20 feet. Thermostat wiring should be 20 AWG Type CL2.

Switch Accessory Operation: Place manual switch in the "REMOTE ACCESS ON" position. Burner "ON" or "OFF" is now controlled by the position of the accessory control being used with the burner.



Switch Control Accessory Options:

Ultra-Sonic Wireless Remote (F10-AB) Wall Switch (WS-1)

Wall Timer (60 Minute Timer) (WT-1)

IR Wireless Remote With Thermostat (IRRC)

Wall Thermostat (TS-1)

CRACKLER Sound Module for F10AB or IRRC (CF5)

REMOTE LOG HOUSE (RH) heat resistant "log" for F10-AB or IRRC receiver.

CRACKLER LOG HOUSE (CH) heat resistant "log" for F10-AB and IRRC Sound Generator option.

ALL APPLICATIONS (VENTED and VENT FREE OPERATION)

Ultrasonic Remote Control (Manual or Remote ON-OFF)

Before you start: Both the transmitter and receiver require 9 volt batteries to operate in remote control.

The blue and black receiver wire leads are for the optional sound producing device (CRACKLER Model CF5).

The receiver must be protected from overheating. Locate receiver well away from heat. Accessory REMOTE LOG HOUSE (Model "RH") is available for use as a heat resistant "log" in which the receiver portion of a Wireless remote option may be located.

Operation Tips: This is a sound operated remote (unlike TV remotes which

are Infrared and operate instantly) and requires you to aim and hold the transmitter for 1 to 3 seconds to operate. Manual Operation: (Receiver switch position ON or OFF) does not require batteries.

Remote Operation: Requires good batteries. If you turn the gas log on using the remote control and then turn the set off by sliding the receiver switch from REMOTE to OFF, when you replace the switch to REMOTE it will remain in the last selected remote position (in this case ON) and turn the gas log on.

To shutdown overnight or for any prolonged period, slide receiver switch to "OFF".

C7-R or DFC7-R (Remote Control) LIGHTING and OPERATION

Pilot Lighting (Remote Operated Valve):

NOTE: The Operating Dial has complete control of gas to pilot and burner. The Operating Dial cannot be turned to "OFF" without first depressing dial in "PILOT" position and then rotating clockwise to "OFF". (see Figure 9)

- Depress and turn Operating Dial to "OFF" position. (Fig 9)
- 2. Wait at least 5 minutes to allow gas which may have accumulated around burner to escape.
- Turn Operating Dial to "PILOT" position.
- Depress and hold until air is bled and gas flows to pilot.
- Light pilot. Continue to depress and hold in Operating Dial. Ignite pilot by cycling Operating Dial from PILOT to IGN. Once pilot lights, continue to hold in Operating Dial until the Pilot flame remains lit when knob is released (approximately 60 to 90 seconds). If Pilot does not remain lit, repeat steps 1 through 5 and allow more time after Pilot Lighting before releasing knob. (Figure 9)
- 6. Turn Operating Dial to "ON".

Ignition Interlock. The Ignition Interlock device prevents the re-establishment of gas flow following a loss of pilot flame (Approximately five minutes). Releasing the Operating Dial prior to establishing a pilot may engage the **Ignition Interlock** requiring approximately 5 minutes before you can attempt to re-light the pilot.

Burner ON or OFF and Adjustment (Remote Operated Valve): With the Operating Dial (Figure 9) in the "ON" position, depress the "UP" or "DOWN" button on the transmitter to turn on/off and adjust flame height.

Complete Shutdown (Including Pilot): Depress "DOWN" button on transmitter until flame is completely out. Slightly push and turn **Operating Dial** to "**OFF**". (Figure 6)

Pilot Location: Pilot is located on right side behind front burner.

OP AMERICA Standard (Remote Models)

The Pilot flame should be steady and soft blue surrounding 1/8 inch of the thermocouple tip as shown in Figure 10.

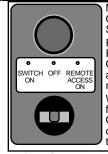
OP AMERICA Millivolt (Switch Model)

NOTE: The OP America Millivolt Pilot/ODS is equipped with a quick acting thermocouple allowing gas flow to the pilot after approximately 30-40 seconds. An additional 60 to 90 seconds time is required to fully heat the thermogenerator and allow gas to the main burner(s).

Pilot Flame Adjustment. Pilot flame should be steady and soft

blue extending approx. 1 inch beyond the pilot tube. If adjustment is necessary, use a narrow long stem screw driver to turn pilot adjustment screw (see Figure 8-Switch or Figure 9-Remote). To adjust turn clockwise for less pilot flame, counterclockwise for more pilot flame. There is no pilot adjustment available on C7 or DFC7 Manual Models.

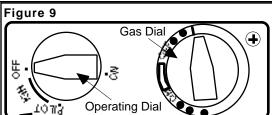
IMPORTANT SERVICE TIP! Obstructed Pilot Air Intake Ports result in an improper gas/air mixture and a weak pilot flame. Weak pilot flame is the NUMBER 1 SERVICE ISSUE RE SHUT-OFF. Using canned compressed air, pipe cleaner or an artist's brush, clean out the opposing Air Intake Ports located at base of Pilot (where gas supply line attaches to pilot). (Figure 10)



Manual: Switch from OFF to SWITCH ON: SWITCH ON to OFF Remote: Switch to REMOTE ACCESS ON. Aim, press button and hold transmitter at receiver.

When switching from REMOTE to





Pilot Set Screw under plate here.

THERMOGENERATOR (Switch Models)

NAT GAS

THERMOCOUPLE

AIR INTAKE

P THEMOCOUPLE

Figure 10

PIEZO SPARKER

PII OT FI AME

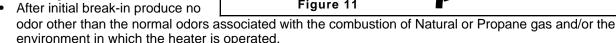
NORMAL OPERATING CHARACTERISTICS

Each and every **CHILLBUSTER** that leaves the factory is quality checked to ensure compliance with our American Gas Association certification. This check includes an operational test to ensure both satisfactory combustion and proper operation.

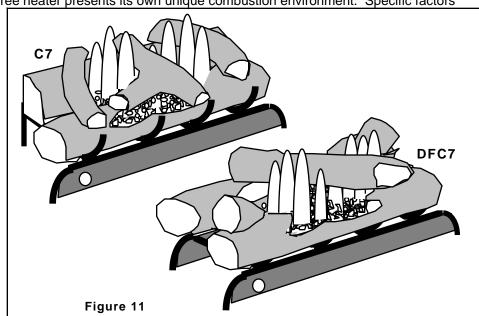
Each installation site for any vent free heater presents its own unique combustion environment. Specific factors

such as weather tightness of the home, size of the room in which the heater is installed, central ceiling heating, fans. drafts. altitude, the size of the firebox, paint or soot inside the firebox, etc., all have an influence on the proper operation of any vent free gas log set. A normally operating CHILLBUSTER Gas Loas possesses the following characteristics:

- Clean burning combustion, which, after normal break in, will produce no soot or smoke.
- A full bodied, lively flame. The flame will be blue at the base and a combination of blue and yellow at the body and tips. See Figure 11.



Will produce water vapor (increase indoor humidity) which may be beneficial during the dry heating season.



Customer Responsibilities And Annual Maintenance:

- Keep the area around the CHILLBUSTER free and clear from debris. From time to time, visually check pilot and burner flames for proper appearance (Figures 10 and 11). Normal flame color should be yellow body surrounded by a hard blue haze.
- The pilot, air shutters and burners must be free of lint and dirt for optimum performance. Air shutters which have been closed or are obstructed with debris will not allow sufficient combustion air into burner. Air shutters should be periodically cleaned of debris. Use compressed air or a soft bristle brush to clear pilot and burner(s) air intakes. Air shutters should not be altered from factory settings. "WARNING: Failure to keep the primary air opening(s) of the burner(s)clean may result in sooting or property damage."
- Obstructed Pilot Air Intake Ports result in an improper gas/air mixture and a weak pilot flame. Weak pilot flame is
 the NUMBER 1 SERVICE ISSUE RE NUISANCE SHUT-OFF. Using canned compressed air , pipe
 cleaner or an artist's brush, clean out the opposing Air Intake Ports located at base of Pilot (where gas supply line
 attaches to pilot). (Figure 10)
- Do not operate in a dirty firebox or in a previously used firebox which has not had all soot completely removed or it's chimney flue cleaned. Previously used fireboxes must have flue and stack professionally cleaned by a chimney sweep. Additionally, firebox walls and damper must also be thoroughly cleaned of all burn residue and soot using a damp cloth, sponge or brush.
- Do not operate this set with any logs other than the RASMUSSEN CHILLBUSTER Refractory Logs specifically designed and approved for use with this Burner System.
- Do not use with blower inserts or heat exchangers.
- If used, glass doors must be wide open when burner is on.
- Do not remove Rating Plate/Warning Tags. These tags serve you and any future user as an integral safety and identification component of the CHILLBUSTER gas log heater. Removing these tags voids the warranty.
- WARNING: Do not allow fans to blow directly into fireplace. Avoid any drafts that alter burner flame patterns. Do not place blower inside area of firebox. Ceiling fans may create drafts that alter burner flame patterns. Sooting and improper burning may occur. Sooting can settle on household surfaces outside the fireplace.
- During periods of heavy use, inspect frequently for evidence of sooting. If sooting is present, discontinue use until source of sooting is determined and corrected.
- Maintain log positioning as shown on pages 6 and 7 at all times.

HOW TO ORDER PARTS

Parts can be ordered through the supplier from whom you purchased your log set.

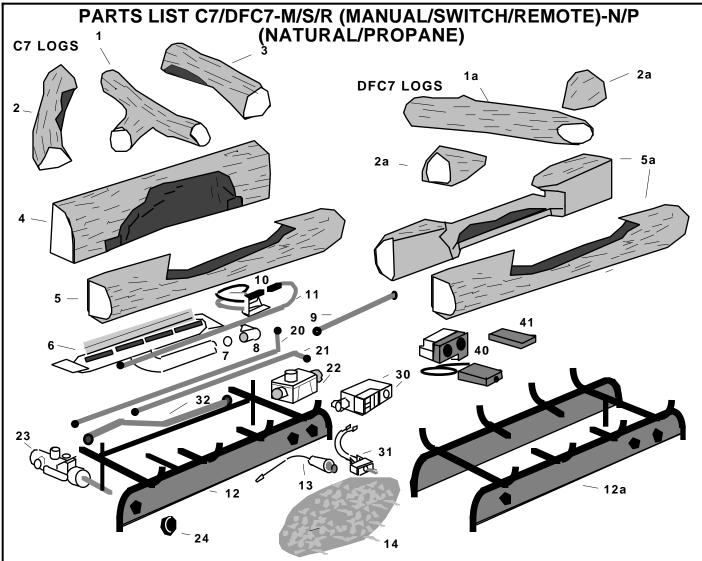
When ordering parts, always specify (From information available on name plate attached to grate) the following:

- 1. Model number of the log set.
- 2. Serial number of the log set.
- 3. Type of gas (natural or propane Gas).
- 4. The name of the part and part number from parts list.
 ◊ Save these instructions◊

Manufactured By: RASMUSSEN IRON WORKS, INC.

12028 E. Philadelphia Street Whittier, California 90601

| • | R RECORD CARD for your permanent record. |
|---|--|
| DATE PURCHASED | |
| MODEL NO. | |
| DATE INSTALLED | |
| SERIAL NO. | |
| INSTALLED BY: | |
| GAS TYPE: | |
| DEALER: | |
| | |



- 1. C7 Center Log C-15
- 1a. DFC7 Center Log (U12a)
- C7 Left Top Log
 C-13 (18" or 24" Models)
 C-10 (30" Model)
- DFC7 Left and Right Top CH3a (18" Model)
 BE2a (24" or 30" Models)
- 3. C7 Right Top Log D8
- 4. C7 Rear Log H-24 (18" or 24"Models) H-26 (30" Model)
- 5. C7 Front Log H21 (18" Model) H22 (24" Model) H23 (30" Model)
- 5a. DFC7 Front Logs (Two)H21a (18" Model)H22a (24" Model)H23a (30" Model)
- 6. Burner
- 7. BurnerOrifice (N or LP)
- Burner Orifice Holder
- 9. 3/8" Gas Supply Connect

- 10. ODS Pilot (N or LP MV or Standard/)
- 11. 1/4" Pilot Supply Tubing
- 12. C7 Grate
- 12a.DFC7 Grate
- 13. Piezo Ignitor
- 14. Ember Material

C7 or DFC7-M (Manual)

- 20 1/4" Burner Supply (High)
- 21. 1/4" Burner Supply (Low)
- 22. Regulator (N) or (P)

- 23. Manual Gas Valve
- 24. Valve Knob
- Push Button Piezo Ignitor
 C7or DFC7-S (Switch)
- 30. MV Valve (3.5 or 10.0)
- 31. 3 Way Switch (S Model)
- 32. 3/8" Valve Output Burner Gas Connector

C7or DFC7-R (Remote)

- 40. Remote Valve and receiver
- 41. Remote transmitter

TWO YEAR CONSUMER PRODUCT WARRANTY

The following warranty has been drafted to comply with the MAGNUSON-MOSS WARRANTY ACT applicable to products manufactured after July 4, 1975. It replaces and supersedes any warranty in this package or in any printed literature.

LIMITED WARRANTY:

RASMUSSEN IRON WORKS INC, 12028 E. Philadelphia Street, Whittier California, U.S.A.., Warrants this Gas Log Set and accessories against defects in materials and workmanship, and suitable for a particular purpose, for a period of:

- (1) LOG CASTING All logs are guaranteed against burnout in the original installation for two years from date of initial purchase.
- (2) BURNERS 2 years from date of initial purchase.
- (3) SAFETY CONTROLS 2 years from date of initial purchase.

THIS WARRANTY IS FOR THE BENEFIT OF THE ORIGINAL PURCHASER.

WARRANTY ADJUSTMENT:

- (1) RASMUSSEN agrees to repair or furnish a replacement for, but not remove or install any product or component which proves defective within the above warranty and appropriate time periods stated.
- (2) BUYER shall notify RASMUSSEN of any defect within this warranty no later than thirty (30) days after a defect is discovered.
- (3) No product will be accepted for return or replacement without written authorization of RASMUSSEN. Before returning merchandise, write to RASMUSSEN giving full details of the complaint and a copy of sales receipt or other evidence of purchase date. Merchandise returned without proof of purchase date will be serviced out-of warranty at our prevailing service and parts rates. If merchandise was damaged in transit, file claim immediately with the carrier. Products returned must be addressed as follows:

RASMUSSEN IRON WORKS INC 12028 E. PHILADELPHIA STREET WHITTIER CALIFORNIA 90601

Shipping charges must be pre-paid by the buyer. REPAIR OR REPLACEMENT UNDER THIS WARRANTY WILL BE SHIPPED FREIGHT COLLECT.

EXCLUSIONS FROM WARRANTY:

- (1) The foregoing warranty is limited solely as set forth herein and applies only for the periods designated above.
- (2) RASMUSSEN shall not be liable for any loss, damage, incidental or consequential damages of any kind, whether based upon warranty, contract, or negligence, arising in connection with the sale, use, or repair of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- (3) The maximum liability of RASMUSSEN in connection with this limited warranty shall not in any case exceed the contract price paid for the product claimed to be defective or unsuitable.
- (4) This warranty does not extend to any product manufactured by RASMUSSEN which has been subjected to misuse, neglect, accident, improper installation, or use in violation of instructions furnished by RASMUSSEN. Do not remove Rating Plate/Warning Tags. These tags serve you and any future user as an integral safety and identification component of the CHILLBUSTER gas log heater. Removing these tags voids the warranty.
- (5) This warranty does not extend to or apply to any unit which has been repaired or altered at any place other than RASMUSSEN IRON WORKS INC factory, or by persons not expressly approved by RASMUSSEN.
- (6) Components manufactured by any supplier other than RASMUSSEN shall bear only that warranty made by the manufacturer of that product.
- (7) Freight damage, cracking from thermal shock, and color changes occur from causes beyond manufacturer's control and are not covered by any warranty.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

RASMUSSEN IRON WORKS, INC. shall be held harmless from any and all claims by the buyer as a result of injury or damage to an ultimate user or other person caused by the product sold herein by the seller to the buyer, whether the injury or damage results from the assembly, installation, operation, shipment, storage or manufacture of this product. RASMUSSEN IRON WORKS, INC. makes no warranties, expressed or implied, other than those expressly stated herein.

CB WARRRANTY 2-03

CHANGES (next)
Consolidate C7 and DFC7
page 1: standard update z21.11.2a 2001 DUE 4-03; standard update z21.11.2b 2002 DUE 12-03
Title change: Customer Responsibilities And Annual Maintenance page 10