

VENT FREE INFRA RED HEATERS



INSTALLATION AND OPERATION INSTRUCTIONS



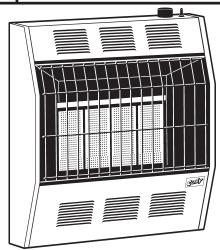
P/N 88900 / REV. 03/2013

Vent-Free Gas Heat

MODEL NUMBERS	MANUAL MODELS	THERMOSTAT MODELS
NATURAL GAS	VFM63, VFM103, VFM203	VFT101, VFT201, VFT301
PROPANE GAS	VFM64, VFM104, VFM204	VFT102, VFT202, VFT302

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.
- WHATTO 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.



INSTALLER: Leave this manual

with the appliance.

CONSUMER: Retain this manual

for future reference.

INSTALLER MUST SHOW HOMEOWNER PROPER LIGHTING AND OPERATION OF HEATER. HAVE THEM COMPLETE AND RETURN THE WARRANTY CARD.

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. See Pg. 4 & 5.

This unit is for residential use only and is not approved for installation in greenhouses, or environments involving dusty, wet, corrosive, or explosive conditions. Such conditions will invalidate the warranty and may create unsafe conditions.

This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

Installation, maintenance, service, troubleshooting and repairs must be performed by a qualified service agency. Mr./Mrs. HOMEOWNER, **do not** attempt any of these procedures yourself as this could expose you to property damage, personal injury or loss of life and will invalidate all warranties.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to the owner's information manual provided with this appliance. Installation and service must be performed by a qualified installer, service technician or the gas supplier.

The State of Massachusetts requires that installation and service of a gas appliance be performed by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.

THIS HEATER SHOULD NOT BE INSTALLED ABOVE 7,000 FT. ELEVATION.
HEATERS INSTALLED ABOVE 4,500 FT. MAY EXPERIENCE NUISANCE PILOT
OUTAGE AND THIS CONDITION MAY BE AGGRAVATED BY IMPROPER PRESSURE
AND INCORRECT SIZING RELATIVE TO FREE AIR OR CONFINED SPACE.

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INTRODUCTION

Read these installation and operating instructions carefully before you install or attempt to use this vent free room heater. If you do not understand any part of these instructions, consult local authorities, a qualified installer, service technician, or the gas supplier. **FAILURE TO READ OR UNDERSTAND THESE INSTRUCTIONS CAN RESULT IN MALFUNCTION, INEFFICIENT OPERATION, PROPERTY DAMAGE, SERIOUS INJURY OR DEATH**.

These installation instructions are a general guide and do not supersede applicable local codes and ordinances. Before planning or beginning the installation be sure it complies with all phases of the local heating code. Or, in the absence of local codes, with the latest edition of the National Fuel Gas Code, ANSI.Z223.1/NFPA54. A copy of which is available from the American Gas Association, 1515 Wilson Blvd., Arlington, Virginia 22209.

The design of this appliance was certified to comply with the latest edition of ANSI Z21.11.2, also available from the American Gas Association.

INTRODUCTION - CONT'D.

For your protection this heater is equipped with an Oxygen Depletion Sensor (ODS) pilot system. Never operate heater if ODS has been damaged or tampered with as this could expose you to Carbon Monoxide (a colorless, odorless gas) that could result in injury or death. Early signs of Carbon Monoxide poisoning resemble influenza, with headaches, dizziness, or nausea. If you develop these symptoms GET FRESH AIR AT ONCE. Turn off heater and call a qualified service technician to check heater. Some people are more affected by Carbon Monoxide than others: Including pregnant women, persons with a heart or lung disease, anemia, those under the influence of alcohol, and those at high altitudes.

OPERATION

Infrared heaters "heat like the sun" with almost instantaneous, safe, clean burning "waves" of infrared heat. Like the sun, they must "see" the object to be heated. Make sure they are installed away from furniture or any other object which might block the infrared "waves". The Cozy thermostatically controlled units offer the additional benefit of automatically cycling the heating to maintain just the right room temperature. Ventfree gas room heaters are designed strictly for "supplemental" room heat use and should never be installed as "sole source heating".

ROOM HEATER SPECIFICATIONS

Your room heater comes packed in a single carton. Before installation, check the rating plate to verify that the Model Number is correct and that the room heater is equipped for the type gas you intend to use.

MODELNUMBER	MA	NUAL MOI	DELS	THERN	MOSTAT MO	DDELS
NATURALGAS	VFM63	VFM103	VFM203	VFT101	VFT201	VFT301
PROPANE GAS	VFM64	VFM104	VFM204	VFT102	VFT202	VFT302
TYPE CONTROL	MAN.	MAN.	MAN.	T-STAT	T-STAT	T-STAT
				BULB	BULB	BULB
HEIGHT	22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"
WIDTH	11-1/2"	14-9/16"	20-11/16"	14-9/16"	20-11/16"	26-13/16"
DEPTH	7"	7"	7"	7"	7"	7"
INPUT (BTU/HR.)	5,500	10,000	LO / 10,000	10,000	20,000	30,000
			HI / 20,000			
Gas Supply Line Size	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Optional CVF Blower	NO	NO	YES	NO	YES	YES
Optional Floor Stand	NO	YES	YES	YES	YES	YES
Bathroom Installation	YES	NO	NO	NO	NO	NO
Bedroom Installation	YES	YES	NO	YES	NO	NO
Piezo Ignitor	YES	YES	YES	YES	YES	YES
Shipping Weight	16 LB.	22 LB.	30 LB.	22 LB.	30 LB.	35 LB.

As applicable:

- 1. An unvented room hetaer having an input rating of more than 10,000 Btu per hour shall not be installed in a bedroom or bathroom; or
- 2. An unvented room heater having an input rating of more than 6,000 Btu per hour shall not be installed in a bathroom.

SAFETY INSTRUCTIONS

- 1) Keep burner and control compartment clean.
- 2) Due to high temperatures, the heater should be located out of traffic and away from furniture and draperies.
- 3) Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.
- 4) Young children should be carefully supervised then they are in the same room with this heater.
- 5) <u>Do not place clothing or other flammable material on or near the heater.</u>
- 6) Any safety screen or guard removed for servicing must be replaced prior to operating the heater.

- 7) Installation and repair must be done by a qualified service technician. The heater should be inspected before use and at least annually by a professional service technician. 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 heater be kept clean.
- "WARNING: Any changes to this heater or its controls can be dangerous".
- Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.
- 10) Due to high surface and radiated temperatures, keep children, clothing, and furniture away.
- 11) Do not install this heater in a recreational vehicle.
- 12) Never use a match, candle, flame or other source of ignition to check for gas leaks. Use only soapy water or liquid detergent.
- 13) Before cleaning or servicing, turn off the gas and allow heater to cool.
- 14) Do not put objects around the heater that will obstruct the flow of combustion and ventilation air.
- 15) When installing the heater allow adequate accessibility clearances for servicing and proper operation.
- 16) Keep appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- 17) Do not install in a residential or commercial garage.
- 18) **WARNING**: Do not use a blower or other accessory not approved for use with this heater.
- 19) "WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property
- 20) "WARNING: Do not allow fans to blow directly into the appliance. Avoid any drafts that alter burner flame
- 21) This appliance is intended for supplemental heating.

FRESH AIR FOR COMBUSTION, VENTILATION AND HEAT DISTRIBUTION

With todays energy efficient homes, it is possible to make your home so air tight that it can result in stale air, dry rot, mold development and host of other related problems. Gas burning appliances need fresh air for combustion as well as for good distribution of heated air throughout the home. The following guide provides good general rules for classifying and properly ventilating most homes.

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

"This heater shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the National Fuel Gas Code ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes."

"WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes".

A confined space is a space whose volume is less than 50 ft³ per 1000 Btu/hr (4.8 m³ 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 ft³ per 1000 Btu/hr (4.8 m³ 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."

Use the following example to determine if the heater is being installed in a confined or unconfined space.

STEP1. First find the cubic feet of area to be heated length x width x height. NOTE: Include any adjoining rooms that cannot be separated by closing a door or that have a air exchange grille that cannot be closed between rooms. EXAMPLE: Area size 25 ft. x 15 ft. x 7-1/2 ft. = 2,812.5 cubic feet.

STEP 2. Divide area cubic feet by 50. EXAMPLE: $2,812.5 \div 50 = 56.25$. Multiply this number by 1,000 for total Btu input room can support. E XAMPLE: 56.25 x 1,000 = 56,250 Btu.

STEP 3. List all gas burning appliances in this area and total the combined Btu input. EXAMPLE:

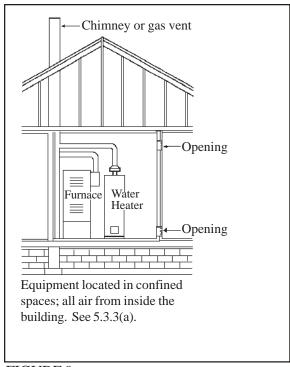
Cozy vent free heater..... 20.000 Btu Gas water heater.... 58,000 Btu 28,000 Btu Gas range (all burners & oven on)..... 106,000 Btu

FRESH AIR FOR COMBUSTION, VENTILATION AND HEAT DISTRIBUTION - CONT'D.

STEP 4. Compare the total Btu the area can support (from Step 2) to the total Btu in the area the heater will be installed (from Step 3). If the total from Step 2 is larger this is considered an unconfined space, if Btu total from Step 3 is larger this is considered a confined space and provisions must be made for additional combustion and ventilation air. EXAMPLE: Btu area can support is 56,250, total Btu in area is 106,000 – this would be a confined space.

NOTE: A third construction class is one with unusually tight construction, defined as, construction where: (A) Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of 1 per (6x10-11 Kg per pa-sec-m²) or less with openings gasketed or sealed, and, (B) Weatherstripping 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 ceiling joints, between wall panels, at penetration for plumbing, electrical, and gas lines, and at other openings.

"WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the *National Fuel Gas Code*, ANSI Z223.1/NFPA 54 Air for Combustion and Ventilation, the International Fuel Gas Code, or applicable local codes." Examples would be to provide two permanent openings either to an adjoining room, or to the outside. See the *National Fuel Gas Code* for details. See Figure 9 & Figure 10 below.



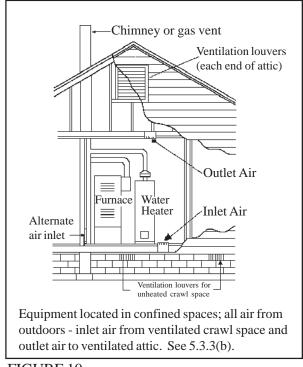


FIGURE 9

FIGURE 10

INSTALLATION

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

LOCATION

- 1) For most efficient performance, locate heater as centrally as possible in the area to be heated.
- 2) Do not install heater in a closet, alcove or small hallway where the heater could be isolated from the space to be heated and adequate combustion air by closing a door.

INSTALLATION - CONTINUED

- 3) Protect heater from wind, high traffic areas, and drafts (such as doorways, locations that get direct air from a ceiling fan, etc.) as this will cause nuisance pilot outage.
- 4) All models may be wall mounted. Model No. VFM10, VFT10, VFM20, VFT20, & VFT30 may be free standing by adding optional VF-FSK floor stand kit. These floor mounted units must also have an approved, fire resistant floor base (available from factory) and must be hard piped.
- 5) If optional blower is to be added, locate heater so there is safe access to an electrical outlet.

CLEARANCES

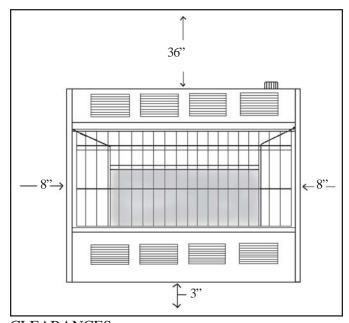
- Maintain adequate accessibility clearances for servicing and proper operation.
- 2) Minimum clearances as viewed from front of heater. 3" clearance below heater shall be measured from top surface of carpeting, tile, etc.
- 3) If VF-FSK Free Standing Kit is used and the heater is installed directly on carpeting, tile, or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance, such as a stove board.

TOOLS AND ADDITIONAL SUPPLIES REQUIRED

- 1) Pipe wrenches (2).
- 2) Phillip head screwdriver or screwgun.
- 3) Pressure test gauge.
- 4) An A.G.A. certified manual shut off valve with 1/8" NPT pressure tap.
- 5) Union connector for type of piping used (check local codes).
- 6) Pipe sealant certified for use with L.P. gas.
- 7) Components to assemble a drip leg.
- 8) Level.
- 9) Drill (if anchors are required).

ROUGH-IN GAS SUPPLY

- Determine location of heater. (See "Operation", "Fresh Air", and "Safety Instructions" for details.
- 2) Install at least a ½" diameter gas supply line. (Gas supply can enter through bottom or back of heater). See Figure 1.



CLEARANCES

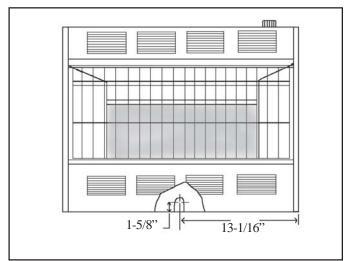


FIGURE 1

SEE FOLLOWING CHARTS FROM NFPN54, ANSI Z223.1 TO DETERMINE PROPER GAS SUPPLY LINE SIZE REQUIRED TO SUPPORT TOTAL BTU REQUIRE-MENTS

NATURAL GAS

Maximum Capacity of Pipe in Cubic Feet of Gas per Hour for Gas Pressures of 0.5 psig or Less and a Pressure Drop of 0.5 Inch Water Column.

(Based on a 0.60 Specific Gravity Gas)

Nominal						LENC	THOF	CTH OF PIPE FFF							
Iron Pipe	Internal	_					11101	1111							
Size,	Diameter,	er,													
Inches	Inches	10	20	30	40	50	09	70	80	06	100	125	150	175	200
1/4	0.364	43	29			18	16	15	14	13	12	11	10	6	8
3/8	0.493	95	65			9	36	33	31	53	27	24	22	20	19
1/2	0.622	175	120			73	99	19	57	53	50	4	94	37	35
3/4	0.824	360	250	200	170	151	138	125	118	110	103	93	\$	F	72
	1.049	089	465			285	260	240	220	205	195	175	160	145	135
1-1/4	1.38	1400	950			280	530	490	460	430	400	390	325	300	280
1-1/2"	1.61	2100	1460			006	810	750	069	650	620	550	200	460	430
2	2.067	3950	2750			1680	1520	1400	1300	1220	1150	1020	950	820	800
2-1/2	2.469	6300	4350			2650	2400	2250	2050	1950	1850	1650	1500	1370	1280
3	3.068	11000	7.7			4750	4300	3900	3700	3450	3250	2950	2650	2450	2280
4	4.026	23000	15800		_	2.6	8800	8100	7500	7200	00/9	0009	5500	2000	4600

* Pipe and Tubing Selection

Total piping length = 84 feet (use table 4 @ 90 feet)

From a to b, demand =200,000 + 38,000 +65,000+35,000

= 338,000 BTU/hr. use 1" pipe.

= 138,000 BTU/hr; use 34" pipe or 7/8" tubing. From b to c, demand = 38,000 + 65,000 + 35,000

From c to d, demand = 65,000 + 35,000

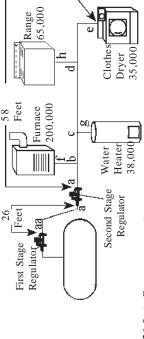
From d to e, demand = 35,000 BTU/hr; use 1/2" pipe or 5/8" tubing. = 100,000 BTU/hr; use 34" pipe or 34" tubing. From b to f, demand = 200,000 BTU/hr; use 1" pipe.

From c to g, demand = 38,000 BTU/hr; use 1/2" pipe or 5/8" tubing. From d to h, demand = 65,000 BTU/hr; use 1/2" pipe or 34" tubing.

Determine the sizes of piping or tubing required for the two-stage L.P. Example 2.

Gas installation shown.

SEE FOLLOWING PAGE FOR PIPE SIZING CHARTS FOR PROPANE GAS. *Information from - REGO PRODUCTS "LPGAS SERVICEMAN'S MANUAL"



Total first stage piping length = 26 feet; first stage regulator setting is $\overline{10}$ PSIG (use Table 1 or 3, @ 30 feet)

From aa to a, demand = 338,000 BTU/hr; use 1/2" pipe, 1/2" tubing, or 1/2" T plastic pipe. Total second stage piping length = 58 feet (use table 4, @ 60 feet).

From a to b, demand = 338,000 BTU/hr; use 1" pipe. From b to c, demand = 138,000 BTU/hr; use 34" pipe or 7/8" tubing.

From c to d, demand = 100,000 BTU/hr; use 1/2" pipe or 3/4" tubing. From d to e, demand = 35,000 BTU/hr; use 1/2" pipe or 1/2" tubing.

From b to f, demand = 200,000 BTU/hr; use 34" pipe. From c to g, demand = 38,000 BTU/hr; use ½" pipe or 5/8" tubing. From d to h, demand = 65,000 BTU/hr; use ½" pipe or 5/8" tubing.

TABLE 1 – first stage pipe sizing

PROPANE GAS

10 PSIG Inlet with a 1 PSIG Pressure Drop

Notes:

Maximum capacity of pipe or tubing, in thousands of BTU/hr. of L.P. Gas

Size of I	Pipe			_	LENGT	H OF PIPE	E OR TUB	ING, FEET	Г*		
Or Copp Tubing,	Inches	10	20	30	40	50	60	70	80	90	100
Copper Tubing (O.D.) Pipe Size	3/8 1/2 5/8 3/4 1/2 3/4 1 1-1/4 1-1/2 2	558 1387 2360 3993 3339 6982 13153 27004 40461 77924	383 870 1622 2475 2295 4799 9040 18560 27809 53556	309 700 1303 2205 1843 3854 7259 14904 22331 43008	265 599 1115 1887 1577 3298 6213 12756 19113 36809	235 531 988 1672 1398 2923 5507 11306 16939 32623	213 481 896 1515 1267 2649 4989 10244 15348 29559	196 443 824 1394 1165 2437 4590 9424 14120 27194	182 412 767 1297 1084 2267 4270 8767 13136 25299	171 386 719 1217 1017 2127 4007 8226 12325 23737	161 365 679 1149 961 2009 3785 7770 11642 22422
		125	150	175	200	225	250	275	300	350	400
Copper Tubing (O.D.) Pipe Size	3/8 1/2 5/8 3/4 1/2 3/4 1 1-1/4 1-1/2 2	142 323 601 1018 852 1780 3354 6887 10318 19871	130 293 546 923 772 1613 3039 6240 9349 18005	118 269 502 843 710 1484 2796 5741 8601 16564	111 251 467 790 660 1381 2601 5340 8002 15410	104 235 438 740 619 1296 2441 5011 7508 14459	90 222 414 700 585 1224 2305 4733 7092 13658	89 211 393 664 556 1162 2190 4495 6735 12971	89 201 375 634 530 1109 2089 4289 6426 12375	82 185 345 584 488 1020 1922 3945 5911 11385	76 172 321 543 454 949 1788 3670 5499 10591

^{*}Total length of piping from outlet of first stage regulator to inlet of second stage regulator (or to inlet of second stage regulator furthest away).

1) To allow 2 PSIG pressure drop, multiply total gas demand by .707, and use capacities from table.

2) For different first stage pressures, multiply total gas demand by the following factors, and use capacities from table.

First State Pressure PSIG Multiply by 20 .844

21 .912 Data Calculated per NFPA #54 & 58.

TABLE 4 - Second, Single, or Integral Twin Stage Pipe Sizing

11 Inches Water Column Inlet with a ½ Inch Water Column Drop Maximum capacity of pipe or tubing in thousands of BTU/hr of LP-Gas

PROPANE GAS

Size of F Or Copp	Pipe			LENGT	H OF PIPI	E OR TUI	BING, FEE	T*			
Tubing,	Inches	10	20	30	40	50	60	70	80	90	100
Copper Tubing (O.D.)	3/8 1/2 5/8 3/4 7/8 1/2 3/4 1 1-1/4 1-1/2 2	49 110 206 348 536 291 608 1146 2353 3525 6789	34 76 141 239 368 200 418 788 1617 2423 4666	27 61 114 192 296 161 336 632 1299 1946 3747	23 52 97 164 253 137 287 541 1111 1665 3207	20 46 86 146 224 122 255 480 985 1476 2842	19 42 78 132 203 110 231 435 892 1337 2575	38 71 120 185 102 212 400 821 1230 2369	36 67 113 174 94 198 372 764 1144 2204	33 62 105 161 87 185 349 717 1074 2068	32 59 100 154 84 175 330 677 1014 1954
		125	150	175	200	225	250	275	300	350	400
Copper Tubing (O.D.)	3/8 1/2 5/8 3/4 7/8	 									
Pipe Size	1/2 3/4 1 1-1/4 1-1/2 2	74 155 292 600 899 1731	67 141 265 544 815 1569	62 129 244 500 749 1443	58 120 227 465 697 1343	54 113 213 437 654 1260	51 107 201 412 618 1190	48 101 191 392 587 1130	46 97 182 374 560 1078	43 89 167 344 515 992	40 83 156 320 479 923

^{*}Total length of piping from outlet of regulator to appliance furthest away.

Data Calculated per NFPA #54 & 58.

INSTALLING HEATER

WALL MOUNT (VFM6, VFM10, VFT10)

STEP 1. Remove wall mounting bracket from back of heater.

STEP 2. Locate wall stud.

<u>STEP 3</u>. Attach wall mounting bracket to wall stud with top at desired height, using (2) screws provided. Make sure top of bracket is level. See Figure 2.

STEP 4. Hang top of heater on wall mounting bracket.

STEP 5. Remove bottom front panel.

STEP 6. Secure back of heater to wall, utilizing anchors (if necessary) or wood screws. See Figure 3.

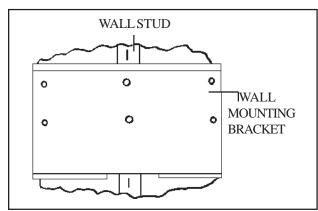


FIGURE 2

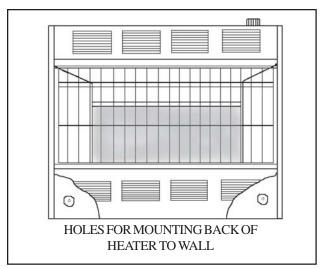


FIGURE 3

WALL MOUNT (VFM20, VFT20, VFM30, VFT30)

STEP 1. Remove wall mounting bracket from back of heater.

STEP 2. Locate two studs.

STEP 3. Attach wall mounting bracket to wall studs with top at desired height using (2) wood screws provided. Make sure top of bracket is level. See Figure 4.

STEP 4. Hang top of heater over wall mounting bracket.

STEP 5. Remove bottom front panel.

<u>STEP 6</u>. Secure back of heater to wall, utilizing anchors (if necessary) or wood screws. See Figure 3.

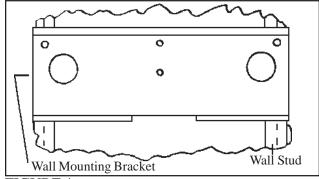


FIGURE 4

INSTALLING VF-FSK FLOOR BASE KIT

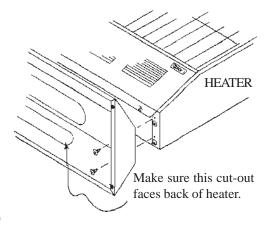
STEP 1. Remove floor base from carton.

STEP 2. Align screw holes in base to holes in heater bottom.

STEP 3. Make sure that cut-out in top of floor base aligns with cut-out in bottom of heater and the other cut-out in bottom of heater and the other cut-out in base if facing towards back of unit (see illustration below).

STEP 4. Attach floor base to bottom of heater using four #8 screws (provided).

NOTE: Floor bases are for use on VFM10, VFT10, VFM-20, VFT-20, and VFT30 only. The VFM6 Series has no base and is not approved for use with one.

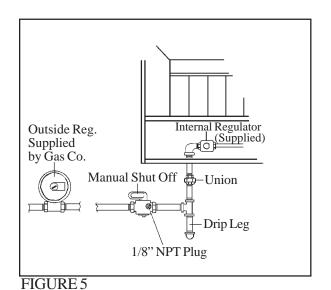


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GAS CONNECTION

STEP 1. Make the gas connection between the manual shut off valve and regulator located inside heater cabinet. Hold regulator when tightening connection to prevent damage to regulator and internal tubing. See Figure 5 for completed installation.

NOTE: All piping and connection must be checked for leaks by the installer. If connections are not exposed, a pressure test must be run. The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing at pressures in excess of ½ psig (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.5kPa).



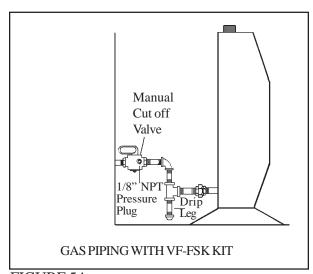


FIGURE 5A

FOR YOUR SAFETY READ BEFORE LIGHT

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.

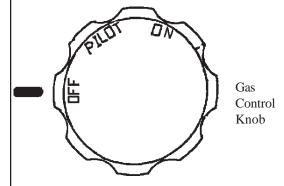
WHAT TO DO IF YOU SMELL GAS:

- 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.

- If you cannot reach your gas supplier, call the fire department.
- C. 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.
- D. 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.

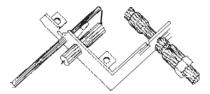
LIGHTING INSTRUCTIONS

- STOP! Read the safety information above on this label.
- 2. Depress gas control knob slightly and turn clockwise to "OFF".
- β. Turn off all electric power to the appliance.



NOTE: Knob can not be turned from "PILOT" to "OFF" unless knob is depressed slightly. Do not force.

- 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 above on this label. If you don't smell gas, go to the next step.
- 5. Locate pilot in the cut-out below the burner.
- 6. Locate piezo ignitor button on top of heater.



- 7. Turn gas control knob counterclockwise to "PILOT".
- 8. Depress gas control knob and hold in. Immediately begin alternately pushing and releasing piezo ignitor button, observing pilot, until pilot is lit. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release the gas control knob and it will pop back up. Pilot should remain lit. If pilot goes out, repeat steps 2 thru 7.
 - If 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 gas control knob to "OFF" and call your service technician or gas supplier.
- Turn gas control knob counterclockwise to "ON".

TO TURN OFF GAS TO APPLIANCE

1. Depress gas control knob slightly and turn clockwise \to "OFF".

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.

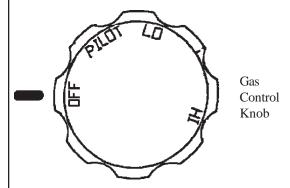
WHAT TO DO IF YOU SMELL GAS:

- 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.

- If you cannot reach your gas supplier, call the fire department.
- C. 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.
- D. 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.

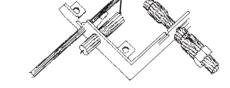
LIGHTING INSTRUCTIONS

- STOP! Read the safety information above on this label.
- Depress gas control knob slightly and turn clockwise to "OFF".
- 3. Turn off all electric power to the appliance.



NOTE: Knob can not be turned from "PILOT" to "OFF" unless knob is depressed slightly. Do not force.

- 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 above on this label. If you don't smell gas, go to the next step.
- 5. Locate pilot in the cut-out below the burner.
- 6. Locate piezo ignitor button on top of heater.



- 7. Turn gas control knob counterclockwise to
 "PILOT".
- 8. Depress gas control knob and hold in. Immediately begin alternately pushing and releasing piezo ignitor button, observing pilot, until pilot is lit. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release the gas control knob and it will pop back up. Pilot should remain lit. If pilot goes out, repeat steps 2 thru 7.
 - If 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 gas control knob to "OFF" and call your service technician or gas supplier.
- 9. Turn on all electric power to the appliance.
- 10. Turn gas control knob counterclockwise to desired "LO" or "HI" setting.

TO TURN OFF GAS TO APPLIANCE

- 1. Depress gas control knob slightly and turn clockwise \(\sime \) to "OFF".
- 2. Turn off all electric power to the appliance if service is to be performed.

VFT101, VFT201, VFT301 - NAT. GAS /VFT102, VFT202, VFT302 - L.P.GAS

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.

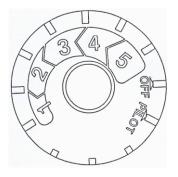
WHAT TO DO IF YOU SMELL GAS:

- 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.

- If you cannot reach your gas supplier, call the fire department.
- C. 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.
- D. 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.

LIGHTING INSTRUCTIONS

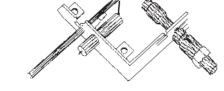
- STOP! Read the safety information above on this label
- 2. Depress gas control knob slightly and turn clockwise to "OFF".
- 3. Turn off all electric power to the appliance.



Gas Control Knob

NOTE: Knob can not be turned from "PILOT" to "OFF" unless knob is depressed slightly. Do not force.

- 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 above on this label. If you don't smell gas, go to the next step.
- 5. Locate pilot in the cut-out below the burner.
- 6. Locate piezo ignitor button on top of heater.



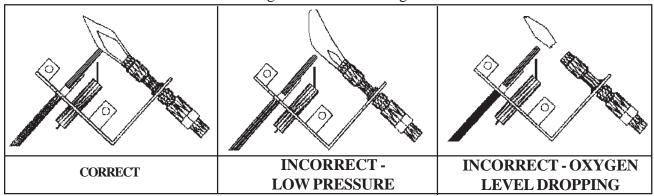
- 7. Turn gas control knob counterclockwise to "PILOT".
- 8. Depress gas control knob and hold in.
 Immediately begin alternately pushing and releasing piezo ignitor button, observing pilot, until pilot is lit. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release the gas control knob and it will pop back up. Pilot should remain lit. If pilot goes out, repeat steps 2 thru 7.
 - If 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 gas control knob to "OFF" and call your service technician or gas supplier.
- 9. Turn on all electric power to the appliance.
- 10. Turn gas control knob counterclockwise to desired temperature setting.

TO TURN OFF GAS TO APPLIANCE

- 1. Depress gas control knob slightly and turn clockwise 🔼 to "OFF".
- 2. Turn off all electric power to the appliance if service is to be performed.

PROPER OPERATION ODS/PILOT FLAME

The pilot pressure has been pre-set at the factory and with proper supply pressure will provide a safe, reliable ignition source. See Figure 6.



BURNER FLAME

All orificing and pressure setting was done at the factory and, with proper supply pressure, will provide a safe, efficient source of heat. However, if any questions about manifold pressure, have a qualified service technician check with a manometer, Natural Gas will be 5", L.P. Gas will be 10" w.c. A proper burner flame (See Figure 7) will produce a reddishorange flow on the surface of the ceramic burner plaques. If the burner flame has blue streamers or the flame is floating off the surface of the plaques, turn heater off and call a qualified service person. Do not operate heater if all plaques are not glowing. NOTE: There will be approximately ¼" space on the sides and top of the burner that will not glow.

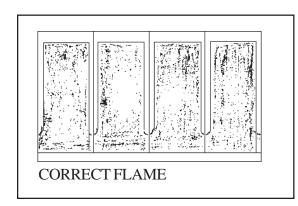
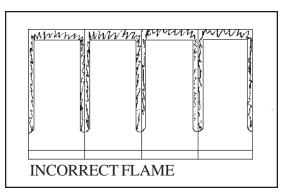
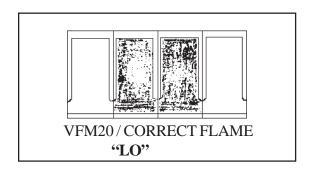
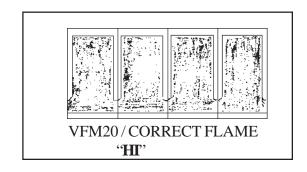


FIGURE 7



<u>VFM20</u>: When turned to the "LO" setting the two middle plaques will light and glow. When valve is turned to "HI" then all four plaques will be lit.





MAINTENANCE

The entire heater should be checked and cleaned by a qualified service technician before the start of each heating season. More frequent cleaning may be required due to excessive lint conditions from carpeting, bedding material, etc.

CABINET

To clean the cabinet and hearth and jamb assemblies of your heater, turn off and allow to cool, then wipe with a soft damp cloth. This will remove any dust. Never use metal polish, furniture wax, or any type of cleaning solution as this could cause odors when the heater is turned back on.

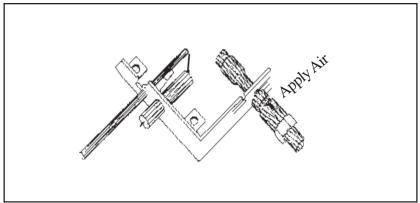
MAIN BURNER

Burners may be cleaned by using a low pressure air hose, or soft brush. Be careful not to damage the ceramic plaque.

ODS/PILOT

STEP 1. Remove bottom front panel.STEP 2. Disconnect pilot line from pilot.

STEP 3. Use a low pressure air hose to blow through pilot and through ODS opening in side of pilot. WARNING: Never insert anything into any of the openings in the pilot as this could damage the Oxygen Depletion System and expose the homeowner to Carbon Monoxide poisoning.



STEP 3 - PILOT CLEANING

<u>WARNING</u>: After any servicing or cleaning make sure heater is completely re-assembled and check for gas leaks.

MANUAL MODELS

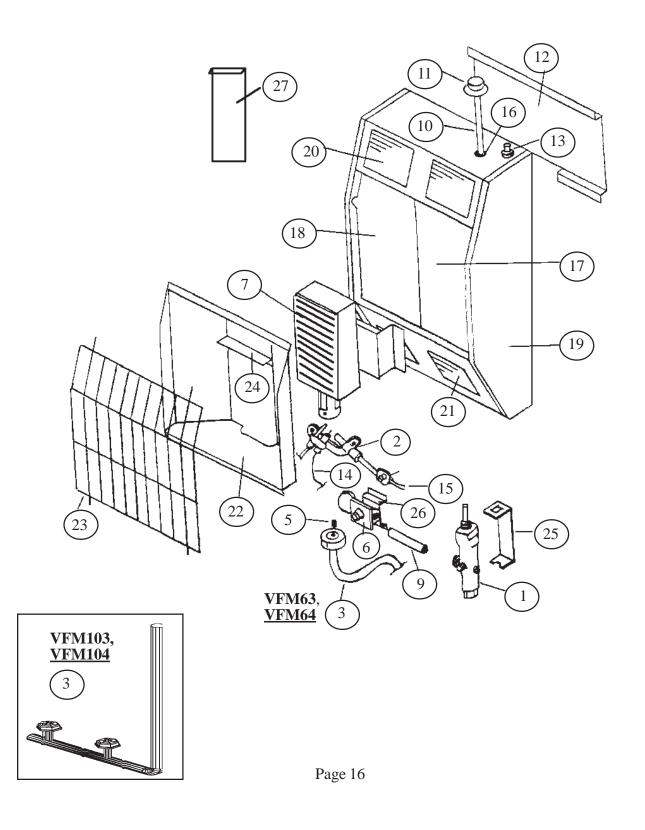
 NAT. GAS
 L.P. GAS

 VFM63
 VFM64

 VFM103
 VFM104

VENT FREE INFRA-RED HEATER MANUAL CONTROL PARTS LIST

Prices and specifications subject to change without notice. All prices are F.O.B. factory.



<u>REPLACEMENT PARTS LIST.</u> TO ORDER REPLACEMENT PARTS YOU MUST GIVE MODEL NUMBER, SERIAL NUMBER, TYPE OF GAS USED, PART DESCRIPTION AND PART NUMBER.

MODEL NUMBERS NATURAL		VI	FM63	VF	M103
MODEL NUMBERS PROPANE		VI	FM64	VF	M104
	REF.	PART	LIST	PART	LIST
PART DESCRIPTION	NO.	NO.	PRICE	NO.	PRICE
Valv e, CPMM-21400/17	1	88290	\$ 49.90	88290	\$ 49.90
*ODS/Pilot (NAT. GAS)	2	88164	\$ 24.90	88164	\$ 24.90
*ODS/Pilot (L.P. GAS)	2	88165	\$ 24.90	88165	\$ 24.90
Manifold	3	88147	\$ 12.40	88148	\$ 24.90
Burner Orifice (NAT. GAS)	5	88021	\$ 4.20	88021	\$ 4.20
Burner Orifice (L.P. GAS)	5	88020	\$ 4.20	88020	\$ 4.20
Gas Regulator (NAT. GAS)	6	88035	\$ 21.50	88035	\$ 21.50
Gas Regulator (L.P. GAS)	6	88036	\$ 21.50	88036	\$ 21.50
Burner Assembly	7	88150	\$ 51.90	88151	\$ 97.80
Gas Supply Tube	9	88045	\$ 3.50	88066	\$ 5.10
Control Rod	10	88019	\$ 14.40	88019	\$ 14.40
Control Knob	11	88075	\$ 4.90	88075	\$ 4.90
Wall Mounting Bracket	12	35220	\$ 8.60	35220	\$ 8.60
Piezo	13	80016	\$ 7.00	80016	\$ 7.00
Electrode Wire 30"	14	88070	\$ 3.50	88070	\$ 3.50
Pilot Tubing Assy.24"Nat.&L.P.	15	88013	\$ 5.80	88013	\$ 5.80
Control Rod Grommet	16	88018	\$ 1.50	88018	\$ 1.50
Casing Back	17	35165	\$ 20.70	35425	\$ 23.70
Casing Left Side	18	35060	\$ 16.10	35060	\$ 16.10
Casing Right Side	19	35070	\$ 16.10	35070	\$ 16.10
Top Front Panel	20	35045	\$ 18.20	35340	\$ 19.80
Bottom Front Panel	21	35080	\$ 12.40	35360	\$ 13.10
Bezel Assembly	22	35100	\$ 53.20	35380	\$ 57.30
Wire Guard	23	88100	\$ 26.40	88101	\$ 28.40
Heat Shield	24	35200	\$ 3.20	35460	\$ 3.60
Valv e Support Bracket	25	35185	\$ 3.60	N/A	N/A
Regulator Support Bracket	26	35240	\$ 6.20	35240	\$ 6.20
Lighting Instruction Assembly	27	91370	\$ 3.50	91370	\$ 3.50
* CURRENT ODS PILOT (88164 [NAT.] & 88165	[L.P.]) RETRO	FITS ALL PILOTS.	YOU MAY OR	MAY NOT	
NEED TO USE PART NO. 88053 3/16 COMPRE	ESSION NUT V	V/FERRULE (PRO	VIDED).		
* TWO REQUIRED					

ATTN: CONTRACTORS AND SERVICE TECHNICIANS, we only sell parts through our wholesalers, but the prices listed above are for your convenience. For prompt parts service, contact the wholesaler from which you purchased your Cozy heater. NOTE: Parts & schematic drawings on current models are shown at www.cozyheaters.com.

THERMOSTAT MODELS

 NAT. GAS
 L.P. GAS

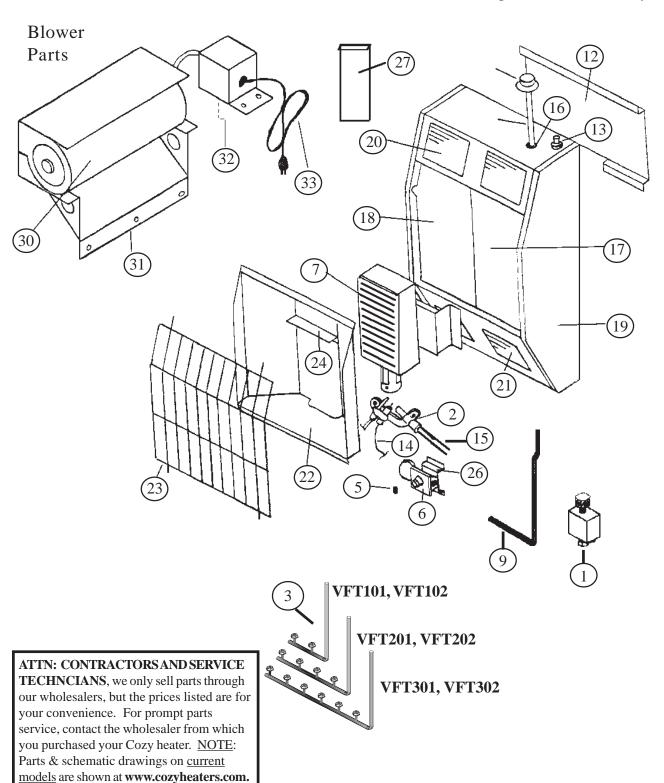
 VFT101
 VFT102

 VFT201
 VFT202

 VFT301
 VFT302

VENT FREE INFRA-RED HEATER THERMOSTAT CONTROL PARTS LIST

Prices and specifications subject to change without notice. All prices are F.O.B. factory.



Page 18

<u>REPLACEMENT PARTS LIST.</u> TO ORDER REPLACEMENT PARTS YOU MUST GIVE MODEL NUMBER, SERIAL NUMBER, TYPE OF GAS USED, PART DESCRIPTION AND PART NUMBER.

MO DEL NUMBERS NATURAL	VFT101			VF	T	201	VFT301			
MO DEL NUMBERS PRO PANE		VF	Т1	02	VF	T	202	VF	Т3	02
	REF.	PART		LIST	PART		LIST	PART		LIST
PART DESCRIPTION	NO.	NO.		PRICE	NO.		PRICE	NO.		PRICE
THE PARTS LISTED BELOW WER	E US	ED ON HEATEI	RS V	VITH SER.	#'s 9616 thr	ou	gh 0216	& 0716 to p	rese	nt.
(1996 through 2002 & 2007 to	prese	nt). (Check Bl	LOC	K3 below	for different p	art	s used on 20	003 through 20	06).	
Valve, 0.630.531 (S.I.T.)	1	88174	\$	183.90	88174	\$	183.90	88174	\$	183.90
*ODS/Pilot (NAT. GAS) {see note below}	2	88164	\$	24.90	88164	\$	24.90	88164	\$	24.90
*ODS/Pilot (L.P. GAS) {see note below}	2	88165	\$	24.90	88165	\$	24.90	88165	\$	24.90
Manifold	3	88041	\$	27.90	88042	\$	37.40	88043	\$	51.90
Burner Orifice (NAT. GAS)	5	88021	\$	4.20	88021	\$	4.20	88021	\$	4.20
Burner Orifice (L.P. GAS)	5	88020	\$	4.20	88020	\$	4.20	88020	\$	4.20
Gas Regulator (NAT. GAS)	6	88035	\$	21.50	88031	\$	21.50	88031	\$	21.50
Gas Regulator (L.P. GAS)	6	88036	\$	21.50	88032	\$	21.50	88032	\$	21.50
Burner Assembly	7	88151	\$	97.80	88152	\$	178.60	88153	\$	242.20
Gas Supply Tube	9	88046	\$	7.50	88046	\$	7.50	88046	\$	7.50
Wall Mounting Bracket	12	35220	\$	8.60	35960	\$	10.50	35960	\$	10.50
Piezo	13	80016	\$	7.00	80016	\$	7.00	80016	\$	7.00
Electrode Wire 30"	14	88070	\$	3.50	88070	\$	3.50	88070	\$	3.50
Pilot Tubing Assy.24"Nat.&L.P.	15	88013	\$	5.80	88013	\$	5.80	88013	\$	5.80
Control Rod Grommet	16	88005	\$	1.60	88005	\$	1.60	88005	\$	1.60
Casing Back	17	35425	\$	23.70	35925	\$	24.60	36425	\$	31.70
Casing Left Side	18	35060	\$	16.10	35060	\$	16.10	35060	\$	16.10
Casing Right Side	19	35070	\$	16.10	35070	\$	16.10	35070	\$	16.10
Top Front Panel	20	35350	\$	13.90	35850	\$	15.50	36350	\$	17.90
Bottom Front Panel	21	35360	\$	13.10	35860	\$	15.20	36360	\$	17.00
Bezel Assembly	22	35380	\$	57.30	35880	\$	63.50	36380	\$	71.50
Wire Guard	23	88101	\$	28.40	88105	\$	32.70	88104	\$	41.10
Heat Shield	24	35460	\$	3.60	35940	\$	4.90	36440	\$	5.70
Regulator Support Bracket	26	35480	\$	4.90	35480	\$	4.90	35480	\$	4.90
Lighting Instruction Assembly	27	91373	\$	3.50	91373	\$	3.50	91373	\$	3.50
* CURRENT ODS PILOT (88164 [NAT.] &	88165	[L.P.] RETRO	FIT	S ALL PILO	OTS. YOU MAY	Y C	OR MAY NO	Т		
NEED TO USE PART NO. 88053 3/16 CC	MPR	ESSION NUT	W/FI	ERRULE (P	RO VIDED).					
BLOWER PARTS VF-B										
Blower/Motor Assembly	30	N/A		N/A	88250	\$	71.90	88250	\$	71.90
Blower Housing	31	N/A		N/A	37025		16.00	37025	\$	16.00
Fan Switch	32	N/A		N/A	88240	\$	7.20	88240		7.20
Power Cord	33	N/A		N/A	80202	\$	5.10	80202	-	5.10
Junction Box	N/A	N/A		N/A	37075	\$	7.50	37075		7.50
Junction Box Cover	N/A	N/A		N/A	37085	\$	9.60	37085	\$	9.60
THE PARTS LISTED BELOW V	VERE	US ED ON HE	ATE	ERS WITH	SERIAL NUM	BE	RS 0316	THROUGH 06	16-	
(2003 through 2006). FOR THESE C	LDE	R HEATERS, T	ГНЕ	PARTS LI	STED BELOW	VΑ	RE NEEDEI	D FOR REPLAC	CEN	MENT.
Valve, VT23100/18 (Copreci)	1	88179	\$	108.20	88179	\$	108.20	88179	\$	108.20
Manifold	3	88041	\$	27.90	88490	\$	30.10	88491	\$	43.40
Top Front Panel	20	35345	\$	19.80	35855	\$	23.00	36355	\$	25.90

ATTN: CONTRACTORS AND SERVICE TECHNICIANS, we only sell parts through our wholesalers, but the prices listed above are for your convenience. For prompt parts service, contact the wholesaler from which you purchased your Cozy heater. NOTE: Parts & schematic drawings on current models are shown at www.cozyheaters.com.

BLOWER INSTRUCTIONS

THIS KIT MUST BE INSTALLED BY A QUALIFIED INSTALLER OR SERVICE TECHNICIAN.

INSTALLING THE VFB BLOWER

STEP 1.	Remove blower	r assembly fron	n shipping carton.

STEP 2. Insert blower assembly into upper back of heater (See Figure 8).

STEP 3. Secure blower to heater using three #8 screws (provided) through holes pre-punched in

heater back.

STEP 4. Locate mounting holes for switchbox (See Figure 8).

STEP 5. Secure switchbox to heater using two #8 screws (provided).

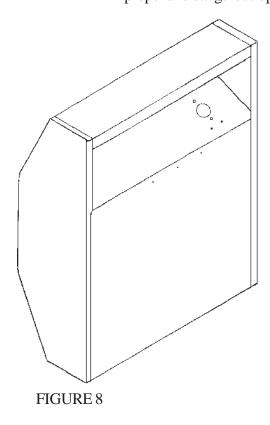
STEP 6. Plug power cord into 115 volt three-prong grounded receptacle.

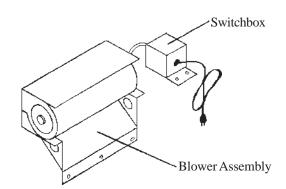
<u>CAUTION</u>: Always unplug power cord before servicing or cleaning heater. This appliance is equipped

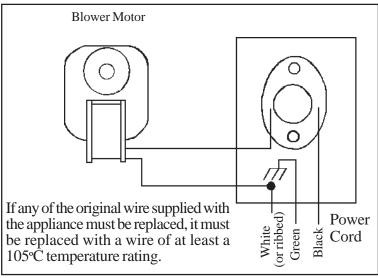
with a three-prong (grounding) plug for your protection against shock hazard and should be

plugged directly into a properly grounded three-prong receptacle.

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.







WIRING DIAGRAM / VFB BLOWER

TROUBLE SHOOTING GUIDE

(for qualified installers and service technicians)

SYMPTOM	POSSIBLE CAUSES	CORRECTIVEACTION
No spark at ODS 1.	Ignitor wire off ODS or Piezo. 2. Ignitor wire shorting out on casing. 3. Defective piezo ignitor. 4. Wrong gap from electrode.	 Check and re-attach ignitor wire. Move ignitor wire. Replace Piezo ignitor. Set gap at 3/16".
Spark but no ignition at ODS	 No gas to heater. Air in gas line. Blocked ODS orifice. 	 Check and turn on gas. Hold in pilot knob to bleed air from gas line. Blow out ODS with low pressure air hose.
ODS will not remain lit when control knob is released	 Safety interlock system activated. Control knob not held in long enough. Control knob not in "PILOT" position. Thermocouple loose. Defective thermocouple. Defective gas valve. Air in line. 	 Wait five minutes between re-ignition attempts. Press in control knob, light ODS and hold control knob in for one minute. Turn control knob to "OFF" then without pushing down turn knob counterclockwise until knob stops turning. Push knob down completely at this point. Tighten thermocouple into gas valve. Replace thermocouple (hand tighten plus 1/4 turn with wrrench). Replace gas valve. Bleed all air from gas line.
ODS lights but main burner does not	 Control knob not in "ON" position. Burner orifice blocked. Gas supply pressure low. Weak thermocouple. Defective gas valve. 	 Turn control knob to "ON". Clean burner orifice with low pressure air hose. Check supply pressure. Call gas supplier. Replace thermocouple. Replace gas valve.
Delayed ignition	 Low gas supply pressure. Burner orifice blocked at ODS. Low manifold pressure. ODS not in correct location. 	 Check supply pressure. Call gas supplier. Clean burner orifice with low pressure air hose. Check and replace regulator if necessary. Make sure ODS is properly mounted to burner bracket.
Flashback	Broken or defective plaque. Gas supply pressure low.	 Discontinue use and replace burner assembly. Check supply pressure. Call gas supplier.
One or more plaques not glowing	 Burner orifice blocked. Broken or defective plaque. Low gas supply pressure. 	 Clean burner orifice with low pressure air hose. Discontinue use and replace burner assembly. Check supply pressure. Call gas supplier.
Heater shuts off during normal operation	 Blocked ODS. Low gas supply presure. Not an adequate supply of combustion and ventilation air. Heater located in drafty area. 	 Clean ODS. See maintenance section. Check supply pressure. Call gas supplier. See "Provisions for adequate combustion and ventilation air" on Page 3 of instructions. Re-locate heater.

The Louisville Tin & Stove Co. warrants to the original user the accompanying product for the period specified herein, provided said product is installed, operated, maintained, serviced, and used according to the instructions and specifications accompanying the product. AS OUTLINED IN OUR INSTRUCTIONS, ANY WARRANTY CONSIDERATIONS ARE CONTINGENT ON INSTALLATION BY **OUALIFIED** Α INSTALLER (CONTRACTOR). SELF-INSTALLATION IS PROHIBITED AND WILL INVALIDATE YOUR WARRANTY.

If within a period of one year from the date of installation of the product, any part supplied by the manufacturer proves to be defective due to workmanship or material, it will replace such part, provided parts have not been subjected to misuse, alteration, neglect, or accidents. The term of the warranty for the heat exchanger and burners is covered in Table A below. Any claim not made within ten (10) days after the expiration of the warranty period shall be deemed waived by the user.

The manufacturer shall have no liability or be required to perform any obligation under this warranty unless, when requested, the user returns, at the user's expense, the component or product claimed defective, to the manufacturer for inspection, to enable the manufacturer to determine if the claimed defect is covered by this warranty.

No charges for freight, labor or other expenses incurred in the repair, removal, or replacement of any product or component claimed to be defective, will be paid by the manufacturer to the user, and the manufacturer will not be liable for any expenses incurred, by the user, in remedying any defect in the product.

Service under this warranty is the responsibility of the installer. In the event service under this warranty is needed, the user of the product

shall request such service directly from the installer. If the user is unable to locate the installer, the user should write directly to the manufacturer, and the name of an alternative service source will be supplied.

The product safety registration card (packed inside the appliance) must be completed and returned to the factory.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED (WHETHER WRITTEN OR ORAL). ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY LIMITED TO THE DURATION OF THE MANUFACTURER'S EXPRESS, WRITTEN WARRANTY.

UNDER NO CIRCUMSTANCES SHALL THE MANUFACTURER BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM ANY COMPONENT OR FROM THE USE THEREOF. THE REMEDIES SET FORTH HEREIN SHALL BE THE EXCLUSIVE REMEDIES AVAILABLE TO THE USER AND ARE IN LIEU OF ALL OTHER REMEDIES.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

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

TABLE A

	<u>Warranty</u>	Period
Product	Heat Exchanger/Tubes	Burners
Cozy Gas Fired Floor Furnace	10 Years	10 Years
Cozy Gas Fired Wall Furnace	10 Years	10 Years
Cozy Gas Fired Vented Console Heater	10 Years	10 Years
Cozy Gas Fired Direct Vent Heater	10 Years	10 Years
Cozy Gas Fired Counterflow Furnace	10 Years	10 Years
Cozy Gas Fired Counterflow Direct Vent Furnace	10 Years	10 Years
Cozy Gas Fired Mobile Home Direct Vent Furnace	10 Years	10 Years
Cozy Gas Fired Hi-Efficient Direct Vent Wall Furnace	10 Years	10 Years
Cozy Gas Fired Direct Vent Baseboard Heater	10 Years	10 Years
Cozy Fan-Type, Direct Vent Through-The-Wall Gas Heater	10 Years	10 Years
Cozy Blue Flame Vent Free Heater	N/A	10 Years
Cozy Infra-Red Vent Free Heater	N/A	N/A

LOUISVILLE TIN & STOVE COMPANY

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