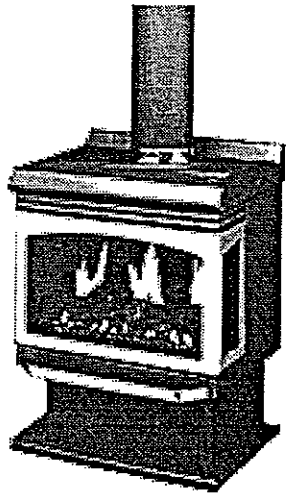
INSTA -FLAME

CFM

INSTALLATION & OPERATING INSTRUCTIONS



DIRECT VENT WALL FURNACE MODEL FSDV 30

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Please Note: In order to comply with applicable codes and product warranties, only CFM Inc. supplied venting components may be used.

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.

FOR YOUR SAFETY

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 your neighbours phone. Follow the gas suppliers instructions.
* If you cannot reach your gas supplier call the fire department.
* Open windows/Extinguish all flames.

FOR YOUR SAFETY

DO NOT STORE
OR USE GASOLINE OR OTHER
FLAMMABLE VAPOURS AND LIQUIDS
IN THE VICINITY OF THIS OR ANY
OTHER APPLIANCE.

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

CFM-USA INC.
2701 S. COLISEUM BLVD., STE1187
FORT WAYNE, INDIANA
46803-2950

CFM INC.
475 ADMIRAL BOULEVARD
MISSISSAUGA, ONTARIO
L5T 2N1

PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE

52010
2/95

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Thank you and congratulations on your purchase of a CFM Insta-Flame Product.
Please read the installation and operating instruction before attempting to install your product.

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INSTALLATION AND OPERATING INSTRUCTIONS

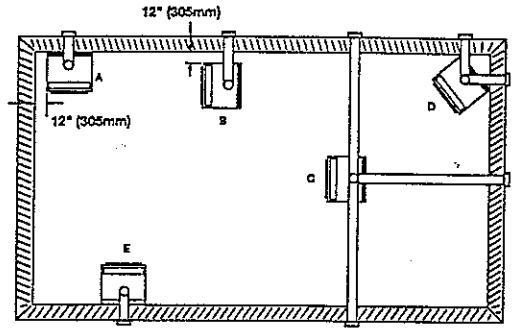
This gas appliance should be installed by a qualified installer in accordance with local building codes and with current CAN / CGA-B149(1 or 2) Installation codes for Gas Burning Appliances and Equipment and CAN/CSA Z 240 .4 Canada.

FOR U.S.A Installations follow local codes and/or the current National Fuel Gas Code. ANSI Z223.1.

FOR SAFE INSTALLATION AND OPERATION PLEASE NOTE THE FOLLOWING:

1. This appliance gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this appliance and should stay away to avoid burns or ignition of clothing.
3. Childern should be carefully supervised when they are in the same room as your appliance.
4. Under no circumstances should this appliance be modified. Parts have to be removed for servicing should be replaced prior to operating this appliance again.
5. Installation and any repairs to this appliance should be carried out by a qualified service person. A professional service person should be contacted to inspect this appliance annually.Make it a practice to have all of your gas appliances checked annually. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc.
6. Control compartments, burners and air passages in this appliance should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this unit.
7. The venting system(chimney) of this appliance should be checked at least once a year and if needed your venting system should be cleaned.
8. Keep the area around your appliance clear of combustible materials, gasoline and other flammable vapour and liquids. This appliance should not be used as a drying rack for clothing,nor should Christmas stockings or decorations be hung in the area of it.
9. Under no circumstances should any solid fuels (wood,coal,paper or cardboard etc.)be used in this appliance.
10. The flow of combustion and ventilation air must not be obstructed in any way.
11. Whether the appliance is installed directly on carpeting, vinyl tile or any combustible material other than wood, the appliance must be installed on a metal or wood panel extending the full width and depth of the appliance
12. This appliance requires adequate ventilation and combustion air to operate properly.

LOCATING YOUR INSTAFLAME FSDV30



A) *Flat on wall corner
B) *Room divider
C) Island
D) Cross corner
E) Flat on wall

* A & B must maintain a 12" (305mm) clearance between the wall and side of appliance.

NOTE: There is a minimum vertical rise required for the venting which varies depending on the application. The maximum horizontal run also has restrictions. Become familiar with the venting instructions before starting the installation.

GAS SPECIFICATIONS

For Altitudes of 0-2000 ft. (0-610m)

Model	Fuel	Gas Control	Max. Input B.T.U.H.	Min. Input B.T.U.H
FSDV30TN	Natural Gas	Thermostatic	30,000	21,000
FSDV30TP	Propane	Thermostatic	21,000	N/A
FSDV30RN	Natural Gas	Millivolt On/Off	30,000	21,000
FSDV30RP	Propane Gas	Millivolt On/Off	21,000	N/A

For Altitudes of 2000-4500 ft. (610-1370m)*

FSDV30TNHA	Natural Gas	Thermostatic	27,000	21,000
FSDV30TPHA	Propane	Thermostatic	21,000	N/A
FSDV30RNHA	Natural Gas	Millivolt On/Off	27,000	21,000
FSDV30RPHA	Propane Gas	Millivolt On/Off	21,000	N/A

For Mobile Home Installations

For Altitudes of 0-4500 ft. (0-1370m)*

FSDV30-RMH	Natural Gas	Millivolt On/Off	27,000	N/A
	Propane	Millivolt On/Off	21,000	N/A

IMPORTANT NOTE: Only models with the suffix "MH" are certified for installation in mobile homes.

***NOTE: Applies to Canadian Models only.**

For Purpose of Adjustment	Natural Gas	Propane Gas
Minimum Supply Pressure	4.5	11.0
Maximum Supply Pressure	7.0	13.0
Manifold Pressure	3.5	10.0

IMPORTANT: Do not use this heater if any part of the heater has been under water. Immediately call a qualified service technician to inspect the heater and replace any control assembly which has been under water.

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OPTIONAL FAN KIT - MODEL FK 30

For model FSDV 30. 120 volts 60 HZ. 0.75 AMPS.

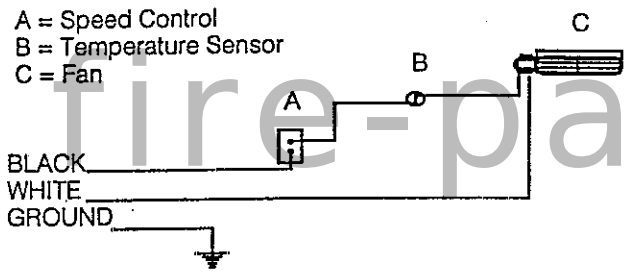
Note:this fan must be electrically connected and grounded in accordance with local code or in the absence of local code with the current CSA C22.1 Canadian Electrical Code.

For U.S.A Installations must conform with local and National Electrical Code ANSI/NFPA #70.

Caution: Should this fan require servicing the power supply must be disconnected.

Periodic cleaning of the fan compartment is definitely required to ensure long satisfactory fan performance. Vacuuming and/or wiping the area around fan should be carried out once a month during the heating season.

Fig. 7



"WARNING"

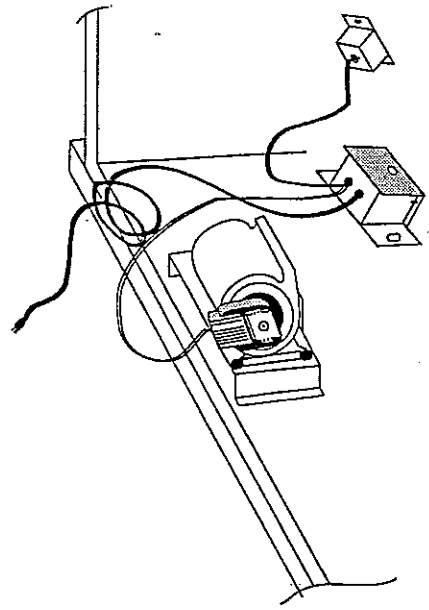
THIS APPLIANCE IS EQUIPMENT WITH A 3 PRONG (GROUNDING)PLUG FOR YOUR PROTECTION AGAINST SHOCK HAZARD AND SHOULD BE PLUGGED DIRECTLY INTO A PROPERLY GROUNDED 3 PRONG RECEPTACLE. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THIS PLUG.

FAN INSTALLATION

The fan assembly, temperature sensor, and speed control are installed by placing the part to be installed on two threaded studs, then fastening them in place with the nuts provided in the fan kit.

The fan goes to the back of the base, and the variable speed control goes on the right hand side of the base just behind the control door, near the front of the unit.

The temperature sensor mounts on the bottom of the firebox floor, directly above the variable speed control.



PREPARATION

Before beginning, remove the glass door from the unit. Also check to make sure there is no hidden damage to the unit. Take a minute and plan out the gas, vent and electrical routes.

FINISHING

Note:
Cold Climate Installation Recommendation:

When installing this unit against a non-insulated exterior wall or chase, it is mandatory that the outer walls be insulated to conform with applicable insulation codes. Do not insulate the unit itself.

The use of wallpaper adjacent to this wall furnace is not recommended, as the heat given off by this appliance may adversely affect the binders in the adhesive used to apply the wallpaper, causing it to discolour and/or peel.

CLEARANCE TO COMBUSTIBLES

Adequate clearances as listed below must be maintained for servicing and proper operation:

Back	0"
Sides	12"
Floor	0"
Top	36"
Corner 0" to Back Edges	
Vent Pipe	1"

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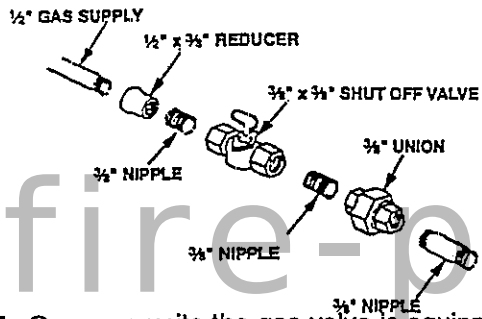
GAS LINE INSTALLATION

WARNING:

hen purging the gas line, especially during initial light up, ne glass front must be removed to avoid any excessive build-up of fuel in the firebox.

The gas piping can be brought into the appliance from either the back or bottom of the unit. There is a cutout located behind the gas valve for bottom entry. The gas line may be of 3/8" rigid pipe, 3/8" copper pipe, or an approved flexible type line. Copper pipe shall be internally tinned when required by local authorities. Copper and flexible lines must use approved fittings.

The gas line must have a union which will allow for the unit to be easily disconnected should servicing be required.



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NOTE: On some units the gas valve is equipped with a essure test point which can be used to read gas line pressures. Units equipped with valves which do not have this feature will require a pressure test point to be provided upstream of the valve as part of the gas line installation. (eg. 1/8" NPT and a plug).

During any pressure testing of the gas line system, when the test pressures are to exceed 1/2 psig (3.5 kpa) the unit and its gas valve must not be connected to that system.

At test pressures equal to or less than 1/2 psig, the gas valve of the unit may be connected to the gas line, but must be in the closed position.

Since some municipalities have some additional local codes, it is always best to consult your local authority and the CAN/CGA-B149(.1 OR .2) installation code in Canada.

For U.S.A. Installations consult the current National Fuel Gas Code, ANSI Z223.1

IMPORTANT: Always check for gas leaks with a mild soap and water solution. Do not use an open flame for leak testing.

n units equipped with SIT gas valves there are brass plugs in two of the holes. These plugs are not to be removed. The gas inlet hole has a plastic cap in it. Remove the plastic cap and connect your gas supply line at this point.

GENERAL GLASS INFORMATION

Only coated Neoceram or Robax ceramic glass may be used for replacement. See parts list for dimensions and specifications.

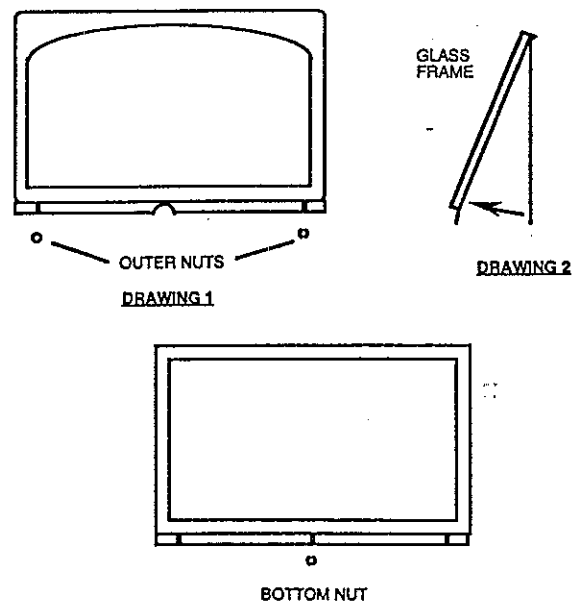
WARNING:

1. The use of substitute glass will void all product warranties.
2. Care must be taken to avoid breaking the glass.
3. Under no circumstances should this appliance be operated without the glass front or with a broken glass front. Replacement should be done by a licenced or qualified service person.

GLASS REMOVAL

1. Remove the front louvre assembly by removing the two screws located at the front behind the louvres.
2. Remove the two 3/8" nuts holding the brass in place, then remove the brass.
3. Remove the three remaining 3/8" nuts holding on the front window. Pull the front window forward and up to remove.
4. To install the glass and frame, follow the above procedure in reverse.

Fig. 3



CLEANING

It will be necessary to clean the glass periodically. During start-up condensation, which is normal, forms on the inside of the glass and causes dust, lint, etc., to cling to the glass surface. Also initial paint on curing can deposit a slight film on the glass. It is therefore recommended that initially the glass be cleaned two or three times with non-abrasive common household cleaners and warm water. Ammonia based cleaners are not to be used. After that the glass should be cleaned two or three times a season depending on the circumstances.

CAUTION: DO NOT CLEAN THE GLASS WHEN IT IS HOT.

BRASS TRIM MAINTENANCE

During normal use, the brass trim on your fireplace will be subjected to dust particles, fingerprints. To clean the brass, special care must be taken to avoid damage to the high temperature coating applied to each piece.

First, do not touch or attempt to clean the brass (or glass) on your fireplace when the brass surface is warm.

Second, to clean the brass, use only lemon oil applied with a lint-free, soft cloth. Cleaning agents other than lemon oil (including water) contain chemicals that may harm the high temperature coating on the brass. Paper towels and other abrasive materials may scratch the surface.

INSTALLATION OF LOGS

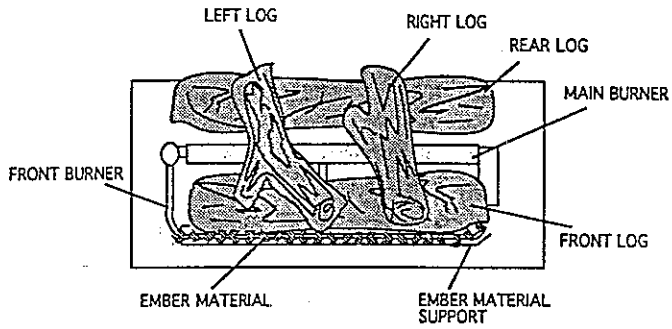
1. Remove glass front window (See Glass Removal) ***Note:*** it is not necessary to remove side glass.
2. Remove logs from the protective bags (as with all plastic these bags are not toys and should always be kept away from children and infants)
3. Place rear log (marked "R")on back log support being careful to align the location pins so that log will not move from side to side.
4. Place front log (marked "F") on log support bracket. Notch in front log holds log in place.
5. Place left log(with branch) on rear log. Align log with detent in front and rear log (note: branch faces towards the front of the unit). Right log installs in the same manner. (See Figure 5).

EMBER MATERIAL PLACEMENT

Separate the ember material in to small pieces roughly 1/2" diameter and place on the front burner as shown in Figure 1.

Do not pack down, leave in fluffy, loose condition for most realistic ember effect.

NOTE: Do not place ember material on main burner.



TOP VIEW

Fig. 5

MAINTENANCE

PLEASE NOTE: It is normal for your Insta-flame fireplace to give off some odour the first few times it is used. To minimize this effect, you must burn this unit for at least SIX(6) hours the first time it is used with the fan in the OFF position (The fan speed control knob is located inside the pedestal behind control door).

CLEANING PROCEDURE

Note take care not to vacuum the ember material from the front burner.

1. Turn off pilot light at gas valve.
2. Remove glass front. (See Glass Removal)
3. Remove logs.
4. Vacuum burner compartment especially around orifice/primary air openings.
5. Reinstall logs. (See Log Set Installation)
6. Check pilot and main burner operation.
7. Reinstall glass front.
8. Recheck pilot and main burner operation.
9. Check visually the flame pattern and compare with pictorial illustration below.

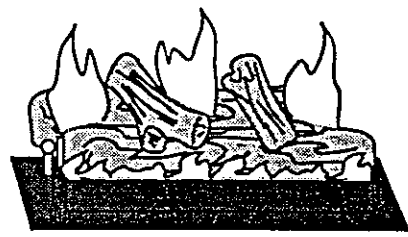


Fig. 6

*It is important to periodically perform a visual check of pilot and burner flame and to compare with picture above.

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LIGHTING AND OPERATING INSTRUCTIONS

FOR UNITS EQUIPPED WITH THE SIT 630 VALVE

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 lit manually 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

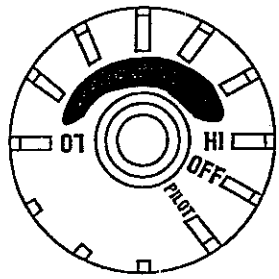
C. Use only your hand to push in or turn the gas control knob Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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

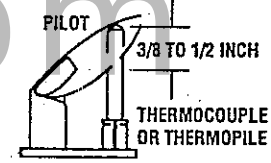
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1. STOP! Read the safety information above on this label.
2. Turn off all electric power to the appliance.
3. Open control access panel
4. Push in gas control knob slightly and turn clockwise to "OFF".



5. Wait sixty (60) 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.

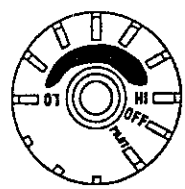
6. The pilot is located by the main burner.



7. Turn knob on gas control counterclockwise to "PILOT".
8. Push in control knob all the way and hold in. Immediately light the pilot by repeatedly depressing the piezo spark igniter until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back into original position. Pilot should remain lit. If it goes out, repeat steps 5 through 8.
   - 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.
10. Turn gas control counterclockwise to "ON", then close access door.
11. Turn on all electric power to the appliance.

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electrical power to the appliance if service is to be perofrmed.
2. Open control access panel.
3. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
4. Close control access panel.



TROUBLE SHOOTING THE GAS CONTROL SYSTEM

SIT 630 GAS VALVE

Note: Before trouble shooting the gas control system, be sure external gas shut off is in the "On" position.

WARNING: BEFORE DOING ANY GAS CONTROL SERVICE WORK, REMOVE GLASS FRONT.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark ignitor will not light	A. Defective or misaligned electrode at pilot.	Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot-should be 1/8" to have a strong spark
	B. Defective ignitor (Push Button)	Push Piezo Ignitor Button. Check for spark at electrode and pilot. If no spark to pilot, and electrode wire is properly connected, replace ignitor.
2. Pilot will not stay lit after carefully following lighting instructions.	A. Defective pilot generator thermocouple.	1. Check pilot flame. Must impinge on thermocouple. Clean and or adjust pilot for maximum flame impingement on thermocouple.
	B. Defective automatic valve operator.	Turn valve knob to "Pilot". Maintain flow to pilot; millivolt meter should read greater than 10 mV. If the reading is okay and the pilot does not stay on, replace the gas valve. Note: An interrupter block (not supplied) must be used to conduct this test.
3. Pilot burning, no gas to burner, Valve knob "ON".	A. Sensing bulb not in proper location.	Make sure sensing bulb is located in bracket on the lower right hand side of unit.
	B. Temperature sensing bulb damaged or tubing to bulb kinked	Carefully examine sensing bulb and capillery tube for damage. If tubing is kinked, replace gas valve.
4. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out	Clean and/or adjust pilot flame for maximum flame impingement on thermocouple.
	B. Possible blockage of the vent terminal.	Check the vent terminal for blockage.

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LIGHTING AND OPERATING INSTRUCTIONS

FOR UNITS EQUIPPED WITH THE ROBERTSHAW VALVE 7000

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 lit 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

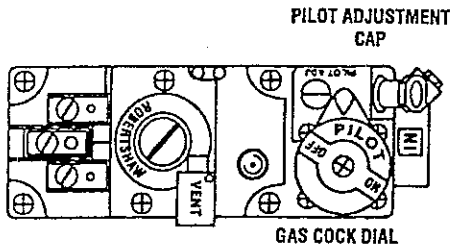
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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

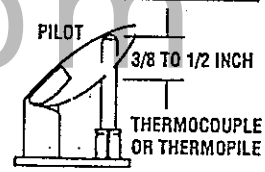
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1. STOP! Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Turn off all electric power to the appliance.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise to "OFF".



6. Wait sixty (60) 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.

7. The pilot is located by the main burner.



8. Turn knob on gas control counterclockwise to "PILOT".
9. Push in control knob all the way and hold in. Immediately light the pilot by repeatedly depressing the piezo spark igniter until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.
   - 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.
10. Turn gas control counterclockwise to "ON", then close access door.
11. Turn on all electric power to the appliance
12. Set thermostat to desired setting.
13. If valve is equipped with a Hi/Lo feature, set the input as desired

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the appliance if service is to be performed.
2. Open control access panel.
3. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
4. Close control access panel.



TROUBLE SHOOTING THE GAS CONTROL SYSTEM

ROBERTSHAW MVRLC MILLIVOLT VALVE

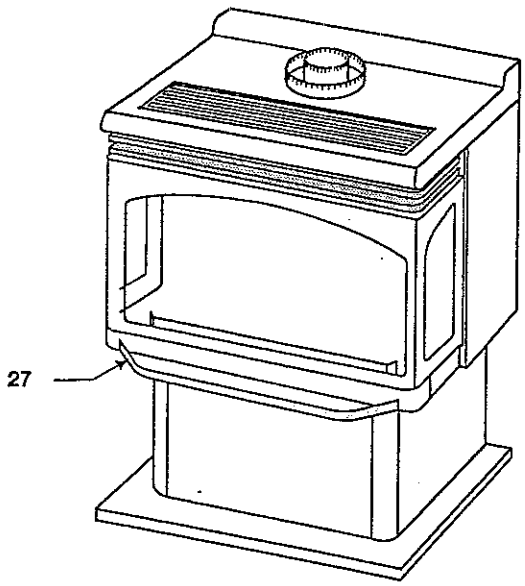
Note: Before trouble shooting the gas control system, be sure external gas shut off is in the "On" position.

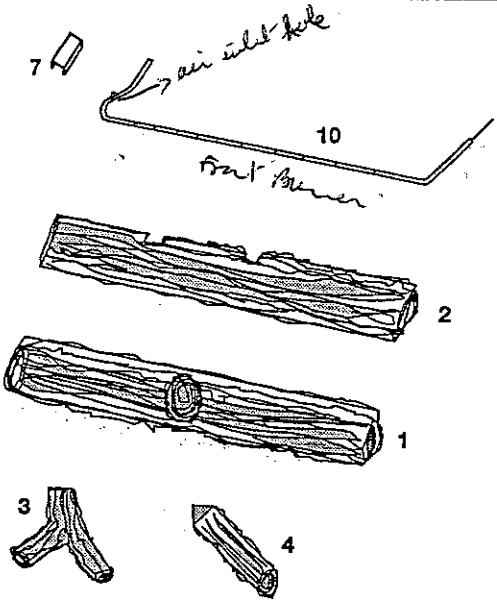
WARNING: BEFORE DOING ANY GAS CONTROL SERVICE WORK, REMOVE GLASS FRONT.

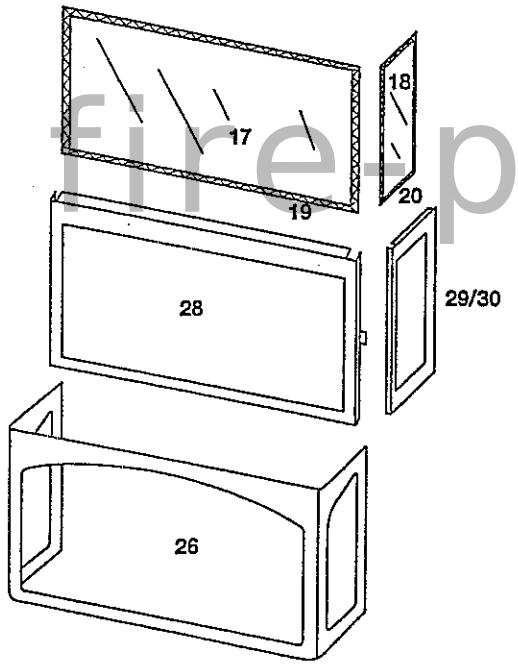
PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark ignitor will not light	A. Defective or misaligned electrode at pilot.	Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot-should be 1/8" to have a strong spark.
	B. Defective ignitor (Push Button)	Push Piezo Ignitor Button. Check for spark at electrode and pilot. If no spark to pilot, and electrode wire is properly connected, replace ignitor.
2. Pilot will not stay lit after carefully following lighting instructions.	A Defective pilot generator (thermopile), remote wall switch.	1. Check pilot flame. Must impinge on thermopile. Clean and or adjust pilot for maximum flame impingement on thermopile. 2. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket. 3. One of the wall switch wires may be grounded. Remove wall switch wires from valve terminals if pilot now stays lit, trace wall switch wiring for ground. May be grounded to appliance or gas supply. 4. Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 325 milli-volts minimum while holding valve knob depressed in pilot position and wall switch "Off". Replace faulty thermopile if reading is below specified minimum.
	B. Defective automatic valve operator.	Turn valve knob to "On", place wall switch to "On" millivolt meter should read greater than 100 M.V. If the reading is okay and the burner does not come on, replace the gas valve.
	C. Defective flame switch (Direct Vent Fireplaces Only)	1. Check all connections and try. 2. If still not operating, disconnect lead between flame switch and valve operator. Then disconnect lead to pilot magnet and connect to valve operator terminal (TP, TH). If pilot remains lit fault lies with flame switch. Check that bulb is in proper location. If still not working replace flame switch (see drawing in manual for additional information).
3. Pilot burning, no gas to burner, Valve knob "ON", Wall Switch "ON".	A. Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage.	Re-check Symptom #2.
	C. Plugged burner orifice.	Check burner orifices for debris and remove.
4. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermopile.

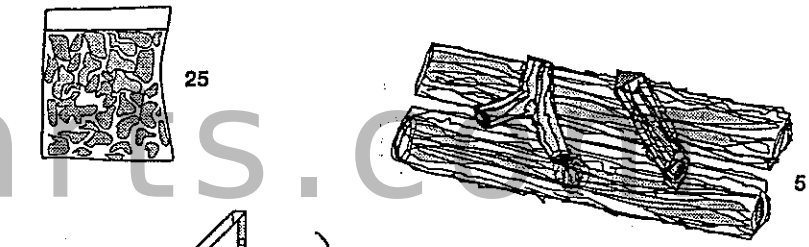
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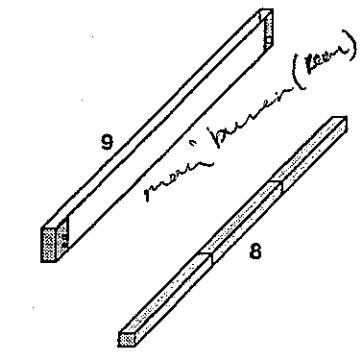
FSDV30 - REPLACEMENT PARTS



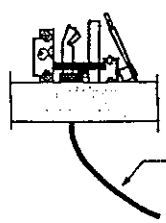


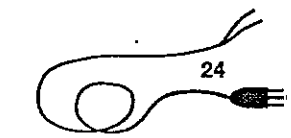


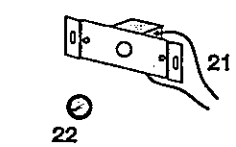


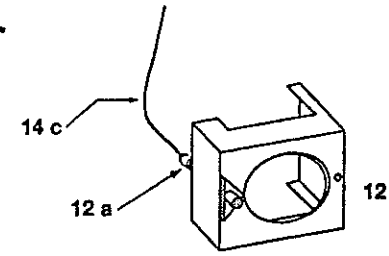












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REPLACEMENT PARTS LIST - FSDV30

All repair parts will be available from your local dealer. When ordering, always give the following information.

a) Item b) Part Number c) Description d) Serial Number

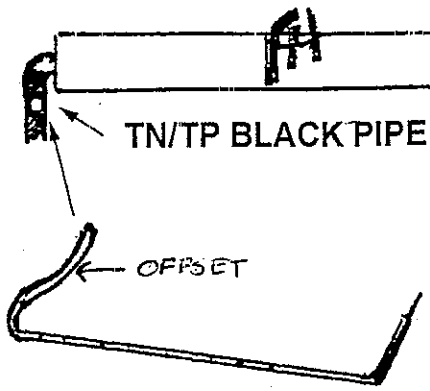
ITEM	PART	DESCRIPTION
1	52012	Log Front
2	50423	Log Rear
3	06498	Log Left
4	17429	Log Right
5	52003	Log Set Complete
6a	52041-1	Burner TN Assembly (Not Shown)
6b	52041-2	Burner TP Assembly (Not Shown)
6c	52041-5	Burner TN HA Assembly (Not Shown)
6d	52041-4	Burner RMH Assembly (Not Shown)
7	50403	Front Burner Hood Assembly
8	52122	Ceramic Burner Set
9	52862	Main Burner c/w Ceramics
10	52113	Front Burner
11a	50993	Orifice - Main Burner Nat.
11b	50999	Orifice - Main Burner ~~Nat.~~ LP
11c	50994	Orifice - Main Burner Nat. HA
12a	50932	Piezo Ignitor Channel Products
12b	51851	Cover, Valve c/w Piezo Ignitor
13a	51930	Orifice, Front Burner Nat.
13b	52980	Orifice, Front Burner LP
14a	50931	Ignitor, Electrode c/w Cable Robertshaw (Not Shown)
14b	52465	Ignitor, Electrode c/w Cable SIT (Not Shown)
14c	51850	Ignitor Cable, SIT
15a	53211	Pilot Supply Line SIT c/w Fittings
15b	53309	Pilot Supply Line c/w Fittings Robertshaw
16	52057	Control Door Latch (Not Shown)
17	52035	Front Glass and Gasket
18	52032	Side Glass and Gasket
19	52949-4	Front Glass Gasket
20	52949-1	Side Glass Gasket
21	51738	Fan Speed Control
22	51882	Fan Control Knob
23	51704	Temperature Sensor (Fan) (Not Shown)
24	51865	Electrical Cord HPN 18/3 Wire - 6 ft.
25	51915	Ember Material
26	52027-PB	Trim, Arch Door
27	52031-PB	Trim, Handle Access Door
28	52048	Frame, Window Front
29	52860	Frame, Window Right
30	52145	Frame, Window Left
31	53315	Fan c/w Mounting Bracket (Not Shown)

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MODEL	VALVE	THERMOPILE/THERMOCOUPLE	PILOT	FLAME SENSOR
FSDV30TN	51844 / 53448	51848 / 53373	51849	N/A
FSDV30TP	51845	51848 / 53373	51911	N/A
FSDV30TN HA	51844	51848	51849	N/A
FSDV30RMH(lp)	51835	51827	51826	51834

FRONT STAINLESS STEEL BURNERS FOR FSDV30

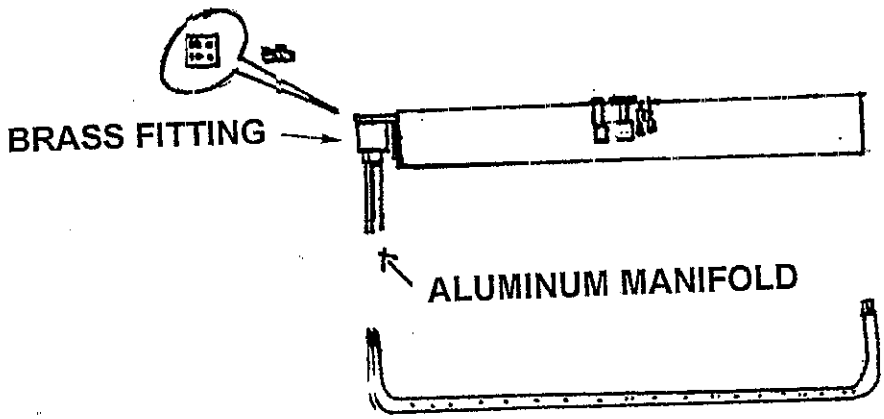
The FSDV30 had two types of front burners The first version had a series of bends in conjuntion with the black maleable manifold to bring the burner down to the required lower level.



FRONT BURNER (OFFSET) FOR BLACK PIPE MANIFOLD

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The second version had a brass block manifold and two bends only as the burner was level with the burner surface. The part number is 52113.



FRONT BURNER (NO OFFSET) USED FOR ALUMINUM MANIFOLD

The part numbers did not change, so to get the correct part you must specify the shape of the front burner or the type of manifold.

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GENERAL VENTING INFORMATION

The Model FSDV30 is approved to be vented either ough the side wall, or vertically through the roof.

Only venting components specifically approved and labelled for this appliance may be used.

- Minimum clearances between vent pipes and combustible materials is one (1") inch (25 mm).
- Venting terminals shall not be recessed into a wall or siding.

SIDE WALL VENTING

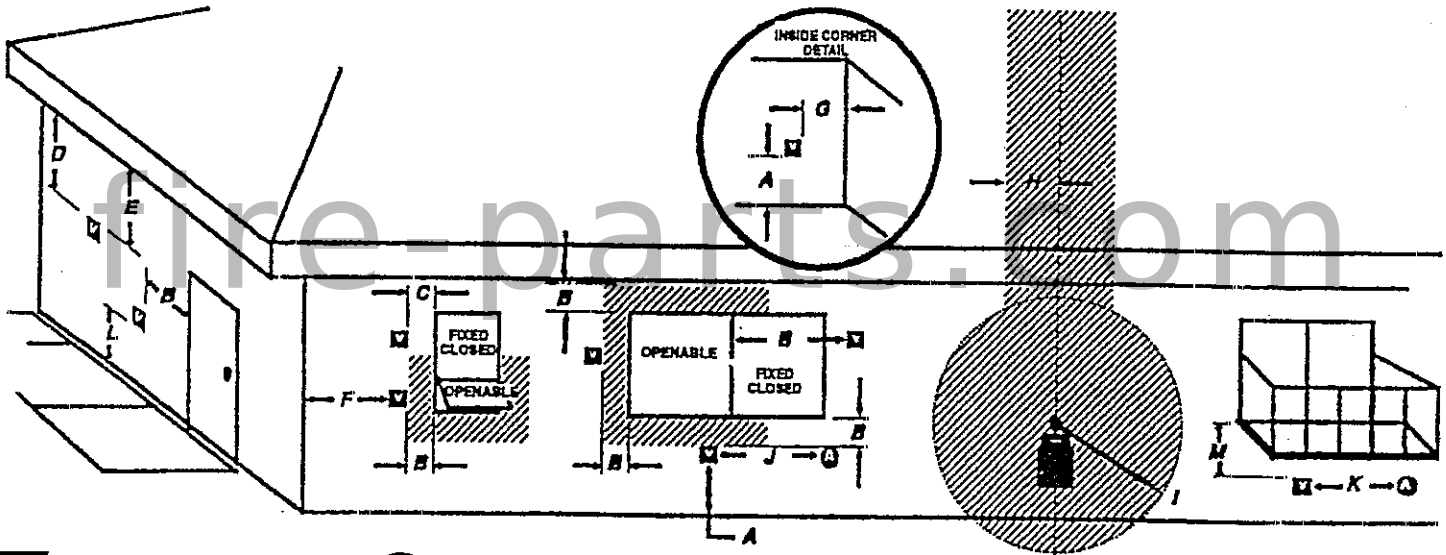
Location of Vent Termination

It is imperative that the vent termination be located observing the minimum clearances as shown on this page.

There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination hood.

Do not locate termination hood where excessive snow or ice build up may occur. Be sure to check vent termination area after snow falls, and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area

*Check with local codes or in the absence of same, with CAN/CGA 1-8149 (.1 or .2) installation codes regarding special vent termination clearances.



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V = *vent terminal* (A) = *air supply inlet* = area where terminal is not permitted

A = clearance above grade, veranda, porch, deck, or balcony [12 inches (30 cm) minimum]*

B = clearance to window or door that may be opened [12 inches (30 cm) minimum on top and sides and 24 inch (60 cm) below.*

C = clearance to permanently closed window [minimum 12 inches (30 cm) recommended to prevent condensation on window]

D = vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the centre-line of the terminal [18 inches (46 cm) minimum]

E = clearance to unventilated soffit [12 inches (30 cm) minimum

F = clearance to outside corner see page 3

G = clearance to inside corner see page 3

*H = * not to be installed above a meter/regulator assembly within 3 feet (90 cm) horizontally from the centre-line of the regulator*

*I = clearance to service regulator vent outlet [*6 feet (1.8 m) minimum]*

*J = clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance [*12 inches (30 cm) minimum]*

K = clearance to a mechanical air supply inlet [6 feet (1.8 m) minimum]*

*L = † clearance above paved side-walk or a paved driveway located on public property [*7 feet (2.1 m) minimum]*

*M = clearance under veranda, porch, deck, or balcony [*18 inches (46 cm) minimum ‡]*

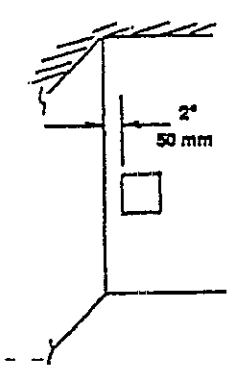
*† a vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings **

*‡ only permitted if veranda, porch, deck, or balcony, is fully open on a minimum 2 sides beneath the floor **

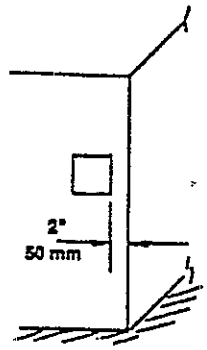
** as specified in CAN/CGA B149 (.1 or .2) Installation Codes (1991) Note: local Codes or Regulation may require different clearances*

** For U.S.A. Installations follow the current National Fuel Gas Code, ANSI Z223.1.*

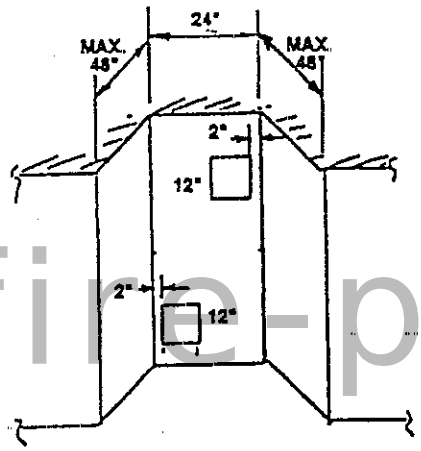
If the exterior of the building is non-combustible the following minimum clearances are applicable:



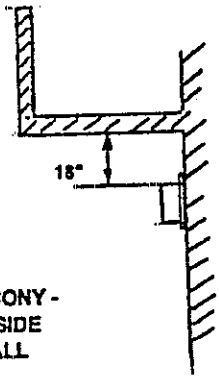
INSIDE CORNER



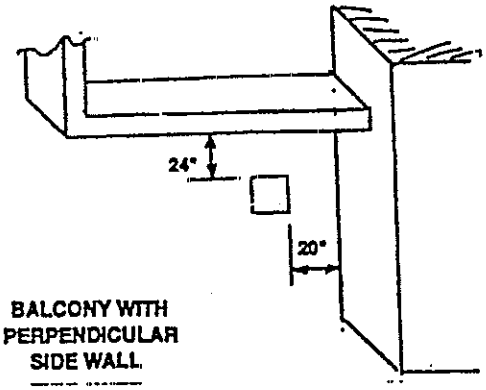
OUTSIDE CORNER



RECESSED LOCATION

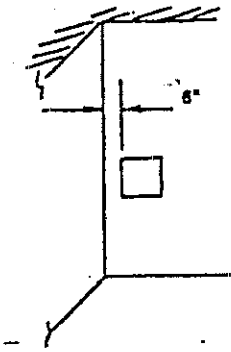


BALCONY - NO SIDE WALL

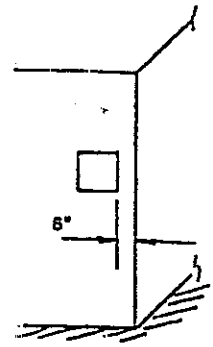


BALCONY WITH PERPENDICULAR SIDE WALL

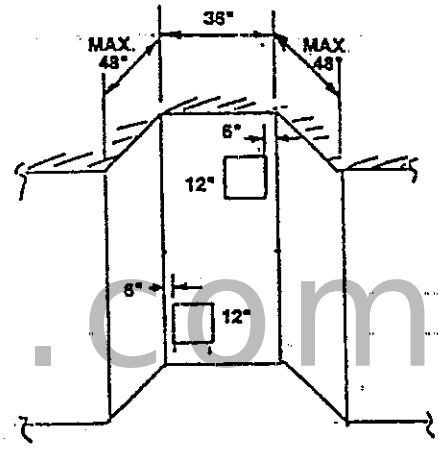
If the exterior of the building is combustible the following minimum clearances are applicable:



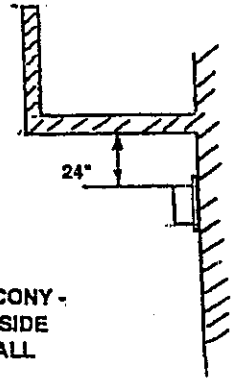
INSIDE CORNER



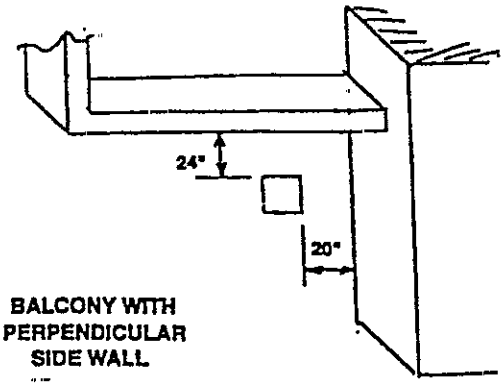
OUTSIDE CORNER



RECESSED LOCATION



BALCONY - NO SIDE WALL



BALCONY WITH PERPENDICULAR SIDE WALL

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VERTICAL SIDEWALL APPLICATIONS

Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The graph showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths allowable.

The maximum horizontal vent run with the 90 degree elbow installed above the mandatory 12 inch vent rise is 3 feet (91 cm) Fig. 1.

The maximum horizontal vent run is 10 feet (305 cm) when the vertical vent rise is 8 feet (from the bottom of the fireplace). Fig. 2.

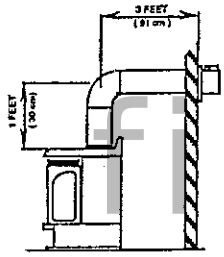


Fig. 1

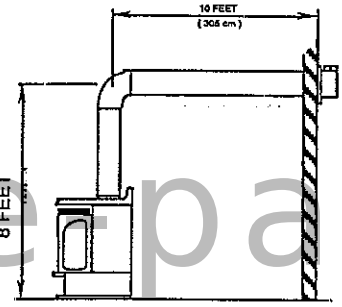


Fig. 2

The maximum number of 90 degree elbows permitted per side wall installation is one (1).

The maximum number of 45 degree elbows permitted per side wall installation is two(2). These elbows can be installed in either the vertical or horizontal run.

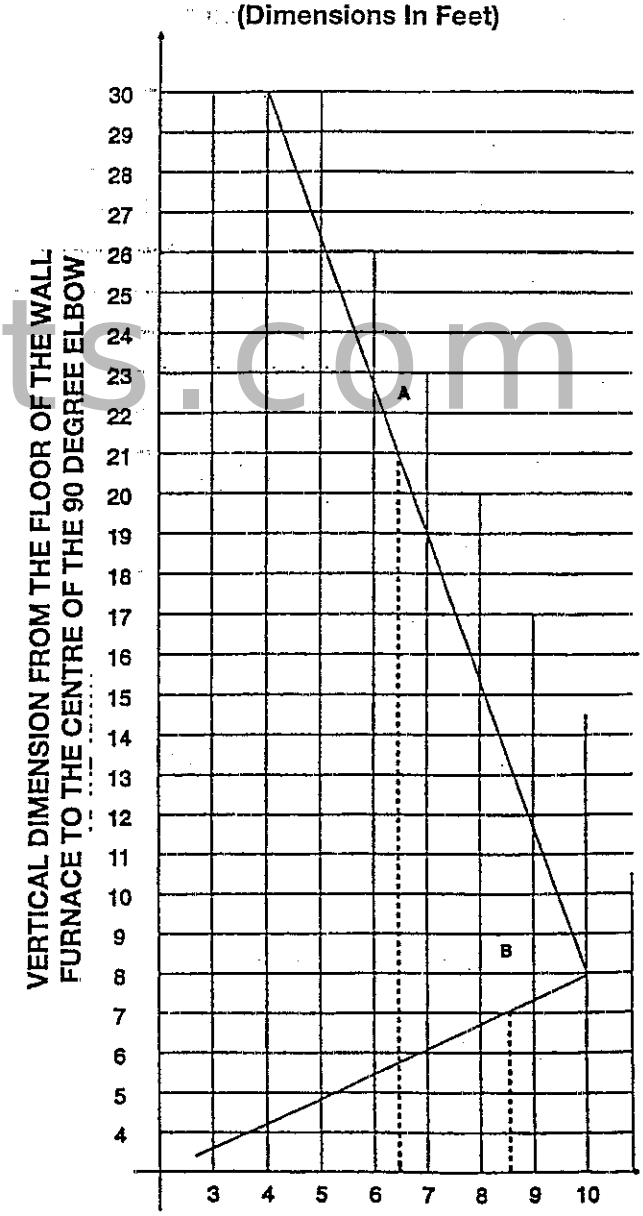
NOTE: Two 45 degree elbows may be used when incorporating a 90 degree elbow.

SPECIAL NOTE: For each 45 degree elbow installed in the horizontal, the maximum horizontal run MUST be reduced by 18" (45cm).This does not apply to 45 degree elbows in the vertical vent.

Example: According to the chart the maximum vent length is 10' and two 45 degree elbows are required the horizontal vent length must be reduced to 7'.

IMPORTANT:
It is always best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length

SIDEWALL VENTING GRAPH
(Dimensions In Feet)



HORIZONTAL VENT RUN FROM THE CENTRE OF THE FLUE OUTLET TO FACE OF EXTERIOR WALL

See Section Titled:
"How To Use The Vent Graph"

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HOW TO USE THE VENT GRAPH

1. Determine the height of the centre of the vent termination 7" elbow and mark a horizontal line until it intersects with the slanted graph line.

2. From the point of this intersection, draw a vertical line to the bottom of the graph.

3. Select the indicated dimension, and position the unit in accordance with same.

EXAMPLE A:
If the vertical dimension from the floor of the unit is 21 feet, the horizontal run to the outer wall flange of the vent termination must not exceed 6.5 feet.

EXAMPLE B:
If the vertical dimension from the floor of the fireplace is 7 feet, the horizontal run to the outer wall flange must not exceed 8.5 feet

VENTING INSTALLATION

The final location of the unit must be such that the horizontal vent dimensions fall within those stated on the vent graph.

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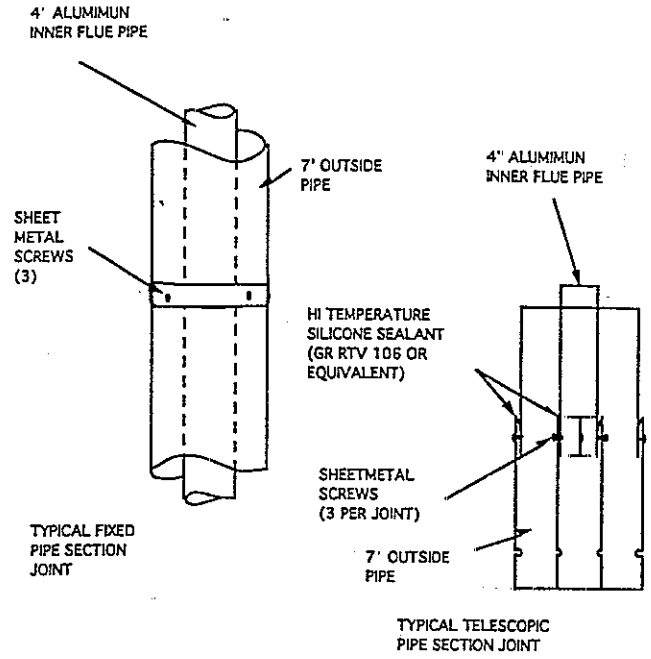
***IMPORTANT** THE MINIMUM CLEARANCE BETWEEN THE VENT PIPE AND COMBUSTIBLE MATERIALS IS ONE INCH (25MM)*

GENERAL INFORMATION ON ASSEMBLING THE VENT PIPES

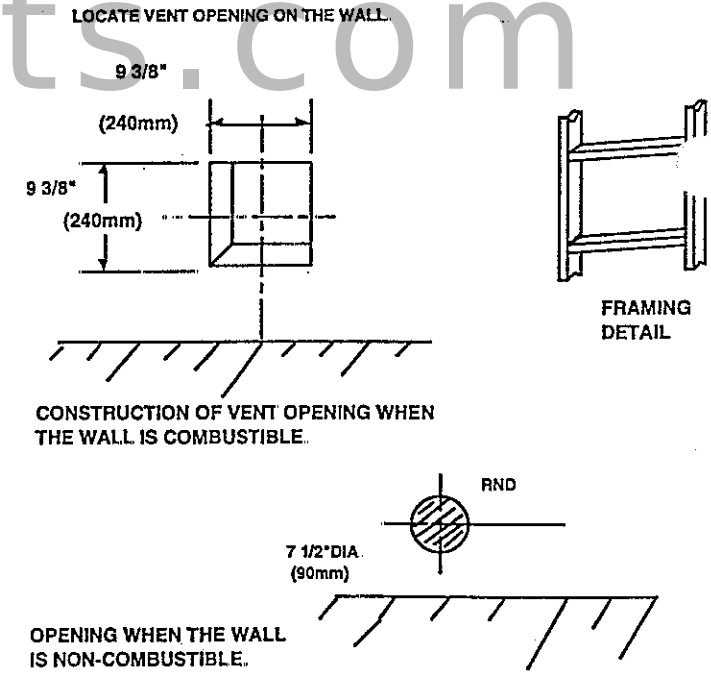
Before joining elbows and pipes apply a bead of hi temp. silicone sealant(GE RTV 106/LOCTITE RTV 81585) to crimped end of elbow or pipe.Ensure that all excess sealant is carefully cleaned off the exterior 7" pipes as these pipes are visible once the installation is complete. **NOTE:** there are polished brass decorative rings provided to hide the joints of the exposed piping. Join the pipes and secure with three sheet metal screws provided.

NOTE: Should it be necessary to disassemble the venting, proper care must be used to reassemble and reseal the vent air intake assembly.

If the venting is going through a siding material such as aluminum or vinyl siding, the vent termination standoff (DVS)) will prevent the termination from being recessed into the siding. If the siding material could be adversely affected by heat, the siding shield (DVSS) should also be used.



STEP 1



COMBUSTIBLE WALLS: Cut a 9-3/8" x 9 -3/8" (240 mm x 240 mm) hole through the exterior wall and frame as shown.

WALL THICKNESS: Min. = 4" (102 mm)
Max. = 20" (510 mm)

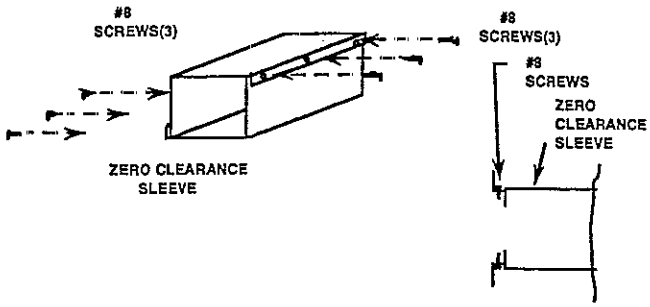
NON-COMBUSTIBLE WALLS: Hole opening must be 7.5" (190 mm) in diameter.

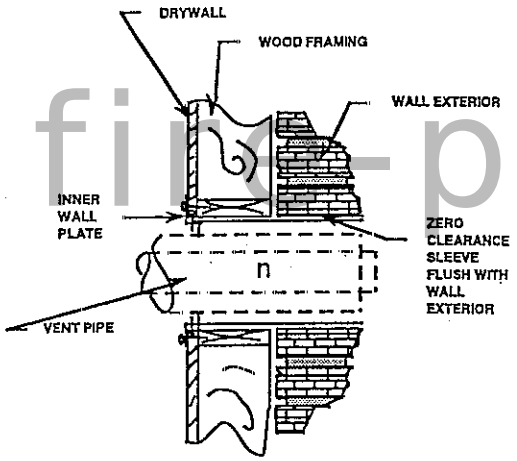
****DIMENSIONS ARE FROM THE FLOOR OF THE UNIT.**

STEP 2

Measure wall thickness and cut zero clearance sleeve ts to proper length, Assemble sleeve and attach to ner wall plate with #8 sheetmetal screws (supplied). Install inner wall plate assembly.

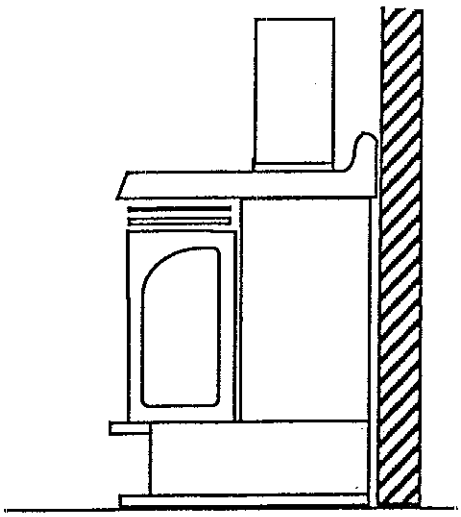
NOTE: Zero clearance sleeve is only required for combustible walls.





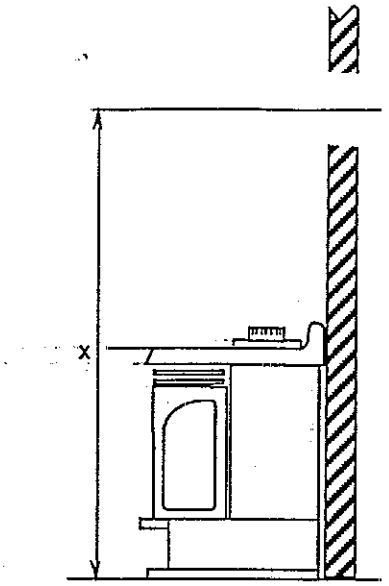
STEP 3

Place unit into position.



STEP 4

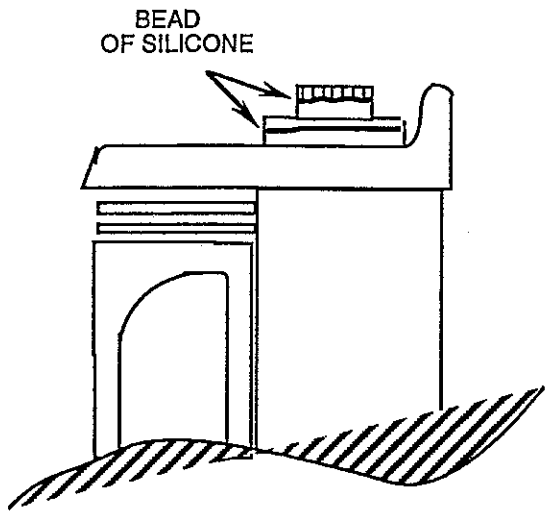
Measure height from unit vent outlet to centre of wall opening.



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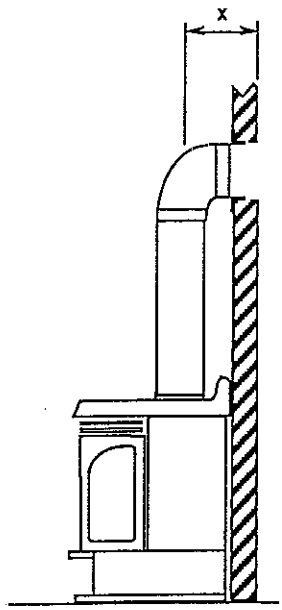
STEP 5

Apply a bead of silicone to the inner and outer flue collars of the unit and using appropriate length of pipe section(s) attach to furnace with three (3) screws. Follow with the installation of the inner and outer elbow, again secure joints with three (3) sheetmetal screws.



STEP 6

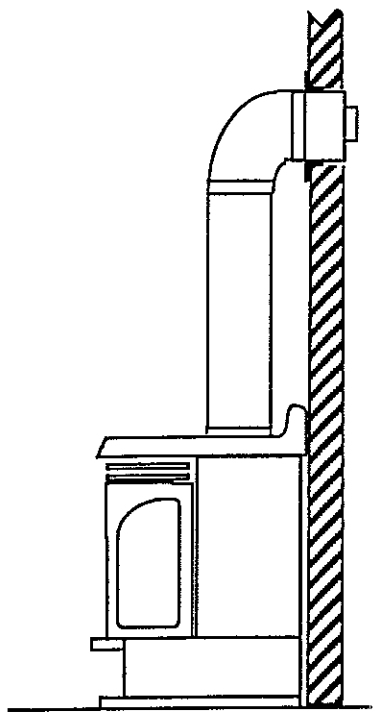
Measure the horizontal length requirement, i.e. from the elbow to the outside wall finish.



STEP 7

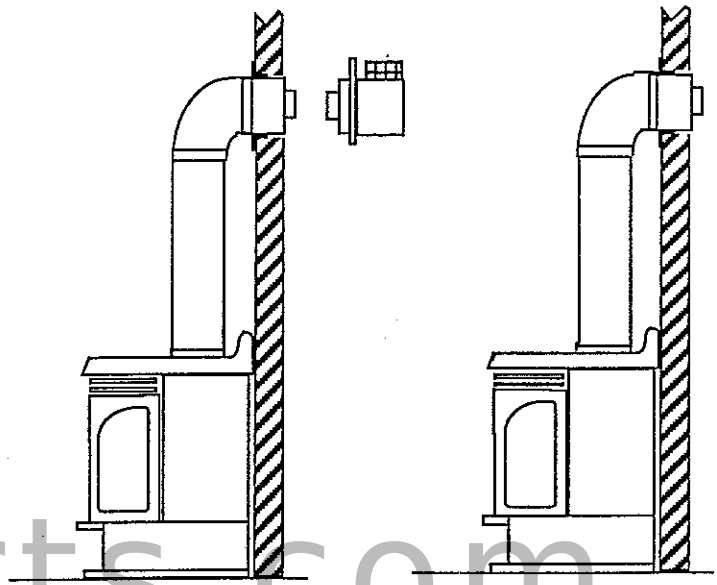
Use appropriate length of pipe sections - telescopic or fixed - and install. The sections which go through the wall are packaged with the FSDVSK kit, and can be cut to suit if necessary.

Note: If using the charcoal wall plate, Part #52202-CG, and collar, Part #52203-CG, put them in place before putting the pipe sections through the wall.



STEP 8

Mount vent termination, proper side up - note label on deflector plate - and seal to the wall. Use caulking around the wall plate to weatherproof. After having installed the vent termination, double check to make sur the pipe extends properly into the vent termination.



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STEP 9

Support horizontal pipes every (3) feet (91 cm) with metal pipe straps.

STEP 10

Check unit to make sure it is levelled and properly positioned.

BASEMENT INSTALLATIONS

When it is not possible to meet the required vent terminal clearances of 12 inches (305 mm) above grade level a model FSDV SKS Snorkel Vent Kit is recommended. It allows installation depth of down to 7 inches (178 mm) below grade level. The 7 inches is measured from the centre of the horizontal vent pipe as it penetrates through the wall.

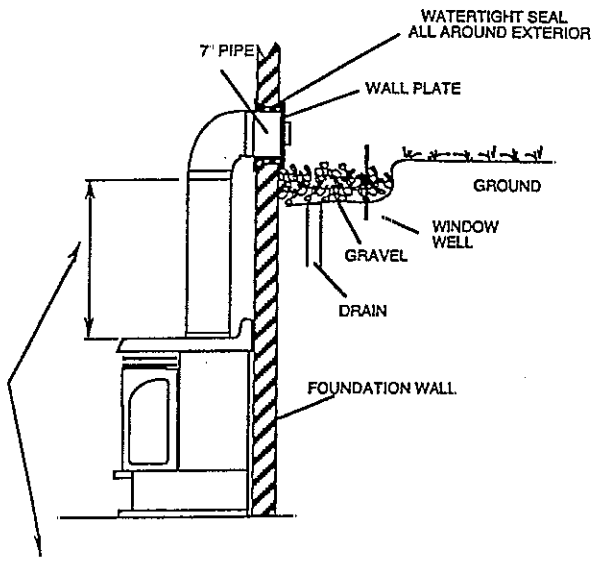
NOTE: If venting system is installed below ground, we recommend a window well with adequate and proper drainage.

INSTALLATION

Make sure all sidewall venting clearances are observed, (See section titled "Sidewall Venting").

1. Establish vent hole through the wall. (See Section titled "Venting Installation").
2. Remove soil approximately 12 inches deeper than required, and refill with gravel so as to provide proper drainage.
3. Install vent system. (See Section titled "Venting Installation").
4. Install exterior aluminum wall plate and caulk to provide a watertight seal.

NOTE: DO NOT BACK FILL AROUND FSDV SKS.

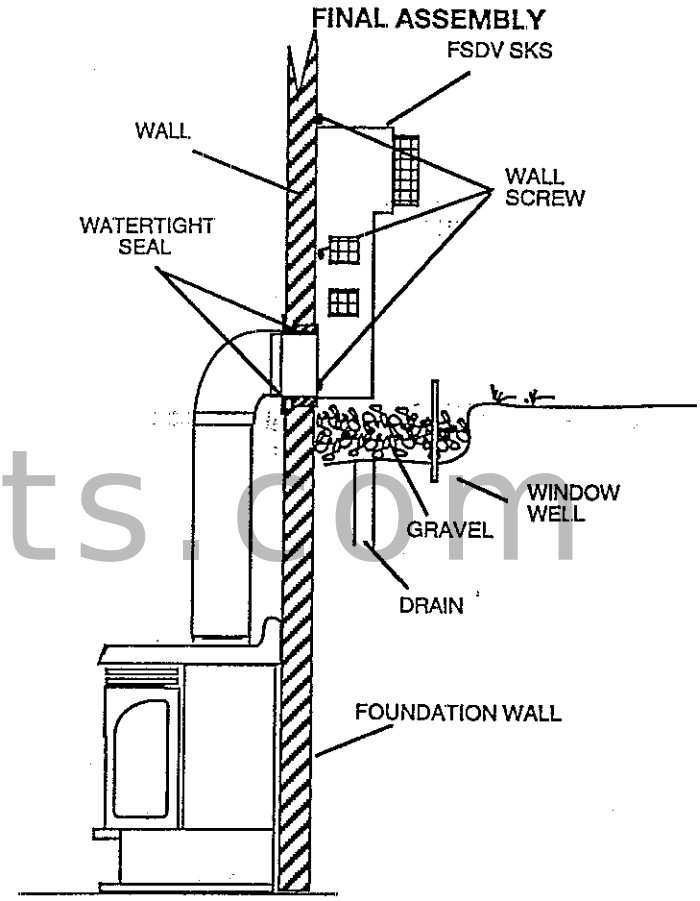


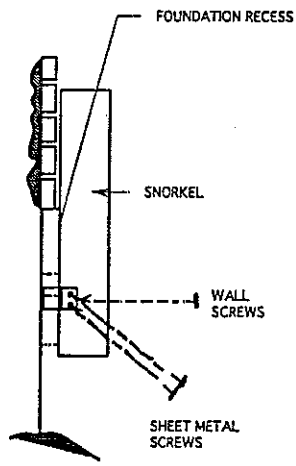
A MINIMUM OF 24" (608 MM) VERTICAL PIPE MUST BE INSTALLED WHEN USING THE DVSKS KIT.

A MINIMUM OF 24" (606 MM) VERTICAL PIPE MUST BE INSTALLED WHEN USING THE FSDV SKS KIT.

NOTE: The maximum horizontal run with the 24" vertical pipe is 36" (915 mm) to the face of the exterior wall. See vent graph for extended horizontal run if the vertical exceeds 24".

5. Apply high heat silicone caulking (supplied) around the 7 inch FSDVSK'S collar.
6. Slide into vent pipe and secure to the wall.
7. Smoothen out the soil so as to keep the vent system totally exposed.

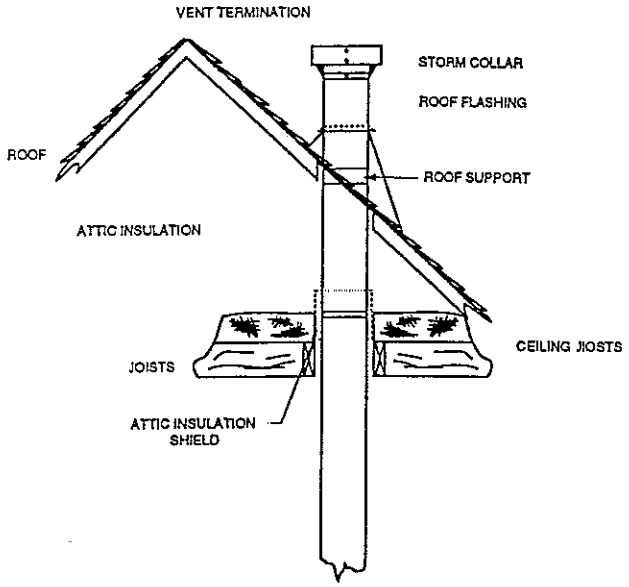




If the foundation is recessed, use recess brackets for securing lower portion of the snorkel. Fasten brackets to wall first and then secure to snorkel with self drilling #8 x 1/2 sheet metal screws.

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VERTICAL THRU THE ROOF APPLICATIONS

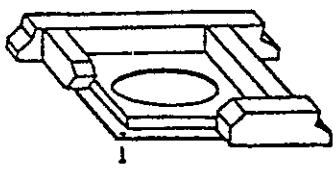


TYPICAL VERTICAL INSTALLATION THROUGH INSULATED ATTIC SPACE

INSTALLATION

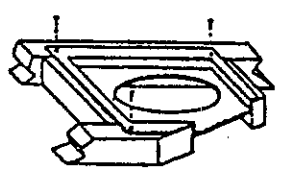
1. Locate your wall unit.
2. Plumb to centre of the flue collar from ceiling above and mark position.
3. Cut opening equal to 9" x 9" (230 mm x 230 mm).
4. Proceed to plumb for additional openings or through the roof. In all cases, the opening must provide a minimum of 1 inch clearance to the vent pipe, i.e., the hole must be at least 9" x 9" (230 mm x 230 mm).
5. Place fireplace into position.
6. Place firestop(s) #FS into position and secure.
7. If using the charcoal wall plate and collar (Part # 52202, 52203 respectively) put them in place before passing the vent through the floor/ceiling.

NOTE: If there is a room above ceiling level, firestop spacer must be installed on the bottom side of the ceiling. If an attic is above ceiling level, firestop must be installed on top side of ceiling joist.



FIRESTOP SPACER

ATTIC ABOVE

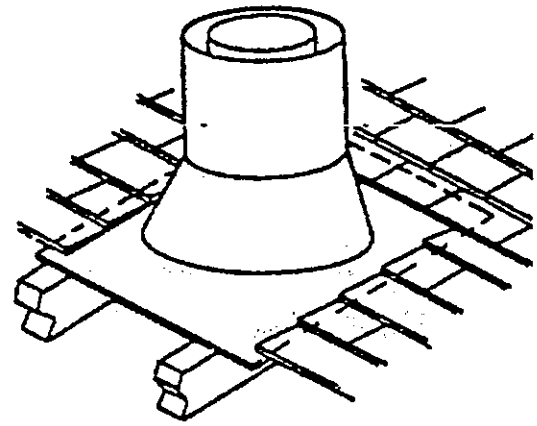


FIRESTOP SPACER

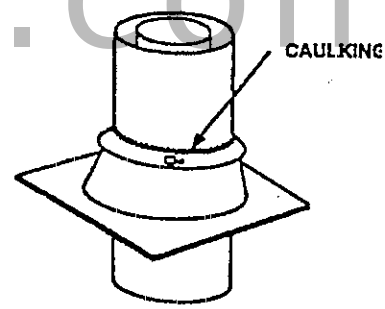
8. Install appropriate chimney section until just above the roof line - see section on joints, page 8.**

** **NOTE:** The enlarged ends of the vent section always face downward.

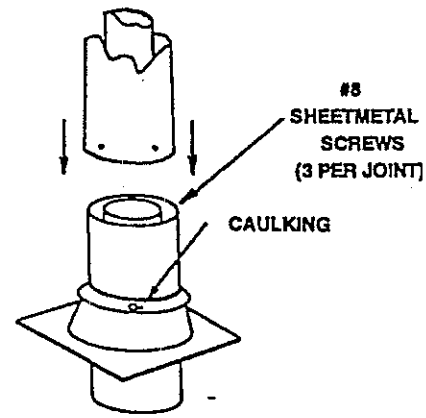
9. Install roof support and roof flashing making sure upper flange of flashing is below the shingles.



10. Install storm collar and caulk around the pipe.



11. Add additional vent lengths for proper height.



12. Install vent termination.

NOTE: If the installation requires an offset, the upper 45 degree elbow must be properly secured with an offset support.

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VERTICAL THROUGH THE ROOF INSTALLATIONS

Your unit fireplace has been approved for;

a) Vertical installations up to 40 feet (10.5 m) in height, and
b) Two sets of 45 degree elbow offsets within these vertical installations.

GENERAL INFORMATION

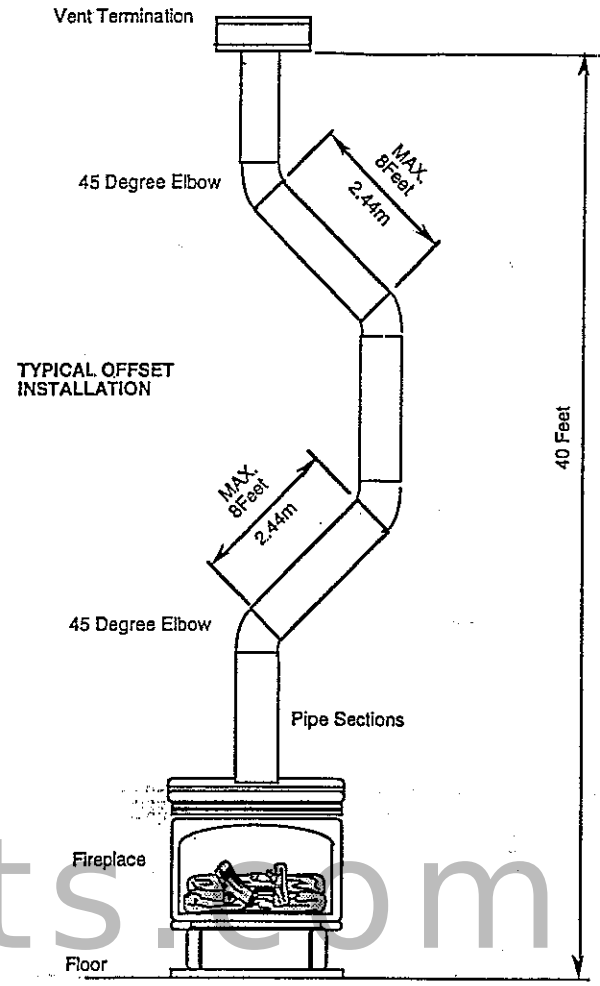
CANADIAN INSTALLATIONS:
The vertical venting system must be installed in accordance with the current CAN/CGA-B149 (.1 or.2) installation code.

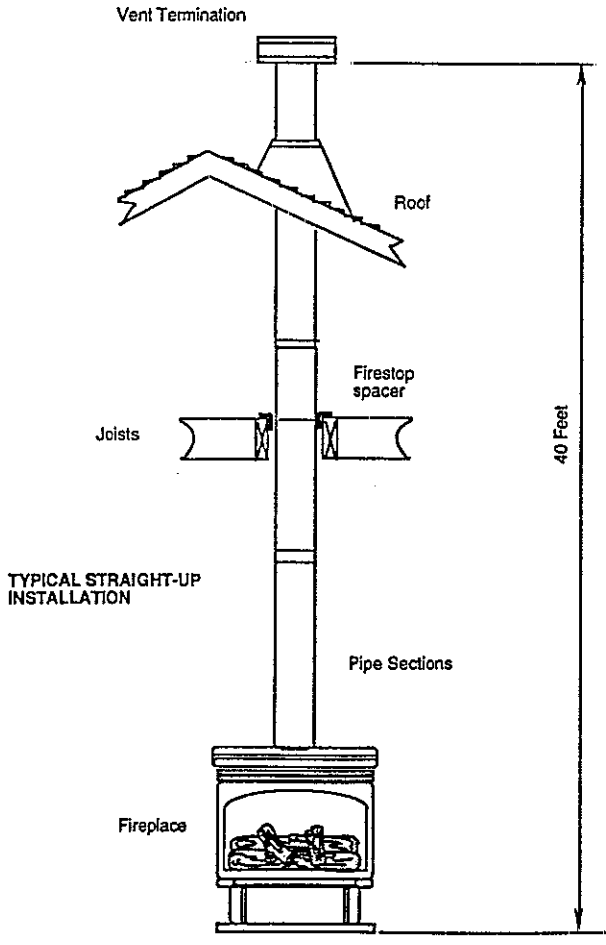
U.S.A. INSTALLATIONS:
The venting system must conform with local codes and/or the current National Fuel Gas Code, ANSI Z223.1.

Minimum clearances to combustible materials is 1 inch (25 mm).

Only approved venting components can be used.

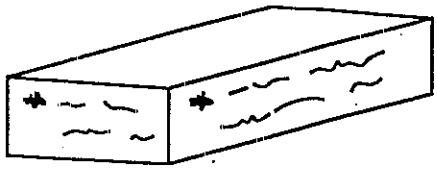
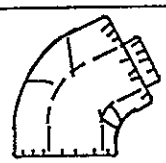
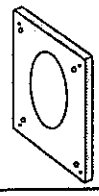
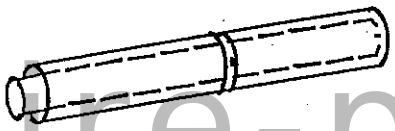
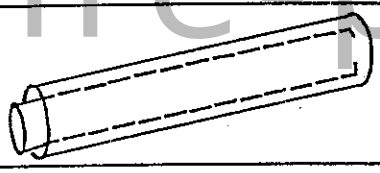
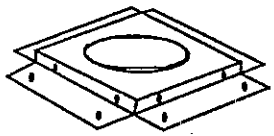
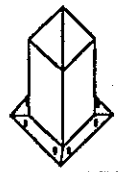
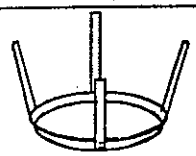
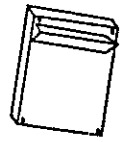
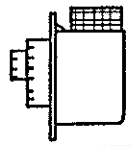
The minimum height of the vent above the roof is 2 feet (610 mm).





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FSDV30 VENTING COMPONENTS

	Starter Kit -Model DVSK - Sidewall Venting Starter Kit - Model DVSKV - Vertical Venting for DVSKV-A order 1/12 to 7/12 roof pitch for DVSKV-B order 7/12 to 12/12 roof pitch for DVSKV-F order flat roof Starter Kit - Model DVSKS Snorkel Kit- for installation below grade
	45º elbow kit - DV36-45
	Vent Termination Standoff - Model DVSO
	Telescopic vent sections DV6-10 - 6" to 10" adjustable length DV10-18 - 10" to 18" adjustable length DV18-34 - 18" to 34" adjustable length DV34-66 - 34" to 66" adjustable length
	Pipe sections for vertical or horizontal venting Model DVP-36" long section
	Firestop Spacer Model DV-FS
	Attic Insulation Shield Model DV-AIS
	Vertical/Horizontal Combination Offset Support Model DV-CS
	DVSS Siding Shield (to protect siding)
	DVS3RVT - Rear Vent Terminal
	52202-CG Wall Plate - Charcoal 52203-CG Collar, 7" - Charcoal

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FOR USE IN MOBILE HOMES - MODEL FSDV30 RMH

This gas appliance should be installed by a qualified installer in accordance with local building codes and with current CAN / ?A-B149 (. 1 or .2) Installation codes for Gas Burning Appliances d Equipment and CAN/CSA Z 240 .4 Canada.

A manufactured home (mobile home) installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or when such a standard is not applicable, the Standard for Manufactured Home installations, ANSI A225..1/NFPA 501A..

FOR U.S.A Installations follow local codes and/or the current National Fuel Gas Code. ANSI Z223.1..

FOR SAFE INSTALLATION AND OPERATION PLEASE NOTE THE FOLLOWING:

1. This appliance gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this appliance and should stay away to avoid burns or ignition of clothing..
3. Childern should be carefully supervised when they are in the same room as your appliance..
4. Under no circumstances should this appliance be modified..Parts have to be removed for servicing should be replaced prior to operating this appliance again..
5 Installation and any repairs to this appliance should be carried out by a qualified service person. A professional service person should be contacted to inspect this appliance annually..Make it a practice to have all of your gas appliances checked annually.. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc..
6. Control compartments, burners and air passages in this appliance should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this unit..
7, The venting system(chimney) of this appliance should be checked at least once a year and if needed your venting system should be cleaned..
8. Keep the area around your appliance clear of combustible materials, gasoline and other flammable vapour and liquids. This appliance should not be used as a drying rack for clothing,nor should Christmas stockings or decorations be hung in the area of it..
9. Under no circumstances should any solid fuels (wood,coal,paper or cardboard etc)be used in this appliance.
10. The flow of combustion and ventilation air must not be obstructed in any way..
11. Whether the appliance is installed directly on carpeting, vinyl tile or any combustible material other than wood, the appliance must be installed on a metal or wood panel extending the full width and depth of the appliance
12. This appliance requires adequate ventilation and combustion air to operate properly..
. The Insta-Flame FSDV30MH must be firmly attached to the building..

NOTE: **The Insta-Flame FSDV30-MH must be firmly attached to the building.**

CONVERSION INSTRUCTIONS

1. Disconnect power to the unit and shut off the gas supply.
2. Remove the glass (see section entitled "Glass Removal"..
3. Carefully remove the logs and glowing embers.
4. Remove the screws in front of the main burner which are holding the main burner in place. Next, remove the 3/8" nut which secures the front burner tube to the main burner.. Now remove the two screws holding the pilot to the main burner.. Remove the main burner by sliding to the right unitl the housing is past the end of the orifice, and then shift the left side of the housing back and to the left to disengage the housing stud from the front burner tube.
5 Remove front burner tube.
6 Remove front and main burner orifice and replace them with the orifices supplied in the conversion kit..
7 Remove the compression fitting which holds the aluminum tubing in the pilot assembly.. This will reveal the pilot orifice which must be replaced with the one provided in the conversion kit
8. The valve is equipped with a convertible pressure regulator.. With a slotted screwdriver; turn the regulator cap clockwise or counter-clockwise 90 degrees to change from one gas to the other.
9. Reassemble the fireplace in the reverse order, except for the front glass.. Leave this off until the unit has been checked for leaks and the gas supply line has been bled.
10 After bleeding the line and checking for leaks, replace the front glass.. Fire the unit up, check for flame impingement on thelogs, adjusting them is necessary.. Check your manifold and supply pressures.. If the rear burner flame requires an adjustment to the primary air, it can be adjusted by moving the main burner to the right to increase it or to the left to decrease it in order to achieve a clean, decorative flame.. Tighten down all screws once adjustments are made..

Refer to the Troubleshooting and Parts List in the manual if further assistance is required.

GAS SPECIFICATIONS

Altitude* 0-1370 meters 0-4500 feet
Models equipped with Robertshaw 7000 series MVRCLC controls..

	Model	Max. Input Fuel	Max. Output** B.T.U.H.
B.T.U.H			
FSDV30-MH	Natural Gas	27,000	21,000
FSDV30-MH	Propane	21,000	14,700

NOTE: ****Altitude conditions apply to Canadian Models only..***
***** Output capacities apply to Canadian Models only.***

For Purpose of Adjustment	Natural Gas	Propane Gas
Minimum Supply Pressure	4 5	11.0
Maximum Supply Pressure	7 0	13.0
Manifold Pressure	3 5	10.0

IMPORTANT: Do not use this heater if any part of the heater has been under water.. Immediately call a qualified service technician to inspect the heater and replace any control assembly which has been under water.

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LIGHTING AND OPERATING INSTRUCTIONS

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 lit 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

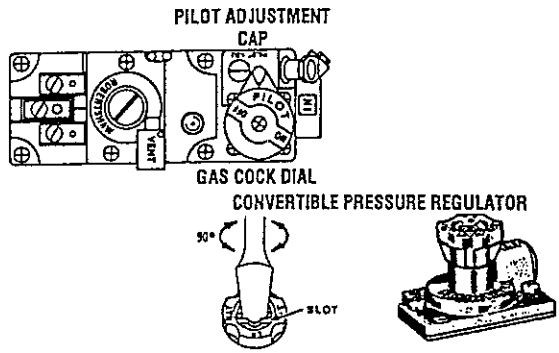
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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

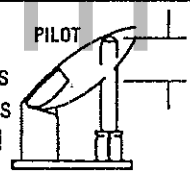
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1. STOP! Read the safety information above on this label.
2. Turn off all electric power to the appliance.
3. Open control access panel.
4. Push in gas control knob slightly and turn clockwise to "OFF".



5. Wait fifteen (15) 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

7. Find pilot - follow metal tube from gas control. The pilot is between the two burner tubes behind the pilot access panel



8. Turn knob on gas control counterclockwise to "PILOT".
9. Push in control knob all the way and hold in. Immediately light the pilot with a piezo spark igniter Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.
   - 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.
10. Turn gas control counterclockwise to "ON", then close access door.
11. Turn on all electric power to the appliance.

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the appliance if service is to be performed.
2. Open control access panel.
3. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
4. Close control access panel.

