

Thermo Pride®

CONDENSING GAS FURNACE

USERS INFORMATION MANUAL

MODELS:

SINGLE STAGE

CLQS1-050T36N

CLQS1-075T42N

CLQS1-100T48N

CLQS1-125T60N

WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow safety precautions exactly could result in serious injury, death, or property damage.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

- WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Leave the building immediately.
- 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.

AVERTISSEMENT

RISQUE D'INCENDIE OU D'EXPLOSION

Le non-respect des consignes de sécurité pourrait entraîner des blessures graves, la mort ou des dommages matériels.

- Ne pas entreposer ni utiliser de l'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil, ni de tout autre appareil.

- QUE FAIRE S'IL Y A UNE ODEUR DE GAZ

- Ne pas tenter d'allumer aucun appareil.
- Ne toucher à aucun interrupteur électrique; n'utiliser aucun téléphone dans le bâtiment.
- Évacuer l'immeuble immédiatement.
- Appeler immédiatement le fournisseur de gaz en employant le téléphone d'un voisin. Respecter à la lettre les instructions du fournisseur de gaz.
- Si personne ne répond, appeler le service des incendies.

- L'installation et l'entretien doivent être effectués par un installateur qualifié, un organisme de service ou le fournisseur de gaz.

PLEASE READ THESE INSTRUCTIONS PRIOR TO INITIAL FIRING, OPERATING THE FURNACE, AND BEFORE PERFORMING ANY MAINTENANCE. THESE INSTRUCTIONS MUST BE LEFT WITH THE HOMEOWNER AND SHOULD BE RETAINED FOR FUTURE REFERENCE BY THE HOMEOWNER/USER.



THERMO PRODUCTS, LLC.

P.O. BOX 237

DENTON, NC 27239

PHONE: 800-476-4328

MG-1053

ECN 5580-MA 190515



Intertek
MADE IN USA

All installations and services must be performed by qualified service personnel.

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All installations and services must be performed by qualified service personnel.


I. SAFETY INFORMATION

This and the following page contain reproductions of the various warning and instruction labels placed on the Thermo Pride Condensing Gas Furnaces. Please read and comply with the contents of these labels.

MODEL NO.	CLOS1-125T60N	
SERIAL NO.	00000000	



DIRECT VENT FORCED AIR FURNACE
FOR INDOOR INSTALLATION IN BUILDING
CONSTRUCTED ON SITE.
CONFORMS TO
ANS Z21.47-CSA 2.3-2012 CENTRAL FURN
CATEGORY IV TYPE FSP
115V 1PH 60CY MAX TOTAL INPUT AMPS 15.0
BTUH INPUT OUTPUT
125,000 120,000



Intertek
2000980

FACTORY EQUIPPED WITH #42 ORIFICES FOR NAT GAS.
SUITABLE FOR LP GAS WHEN EQUIPPED WITH 1.5 MM ORIFICES
NORMAL MANIFOLD PRESS 3.5 IN WC(NAT) 10.0 IN WC(LP)
MIN GAS SUPPLY PRESS FOR INPUT ADJUSTMENT 4.5 IN WC(NAT)
MAX GAS SUPPLY PRESS 14.0 IN WC 11.0 IN WC(LP)
AIR TEMPERATURE RISE 45°F TO 75°F
MAX EXTERNAL STATIC PRESSURE 0.50 INCHES WC
MAXIMUM OUTLET AIR TEMPERATURE 175°F
CERTIFIED FOR CLOSET INSTALLATION AT MINIMUM CLEARANCES
TO COMBUSTIBLE CONSTRUCTION AS SHOWN.

(INCHES)	TOP	FRONT	BACK	LS/RS	FLUE PIPE
	1	6	0	0	0

FOR INSTALLATION ON COMBUSTIBLE FLOORING (UPFLOW/HORIZONTAL)
FOR INSTALLATION ON COMBUSTIBLE FLOORING ONLY WHEN INSTALLED
ON SPECIAL BASE PART NO. 125CLO-BASE. (DOWNFLOW)
LINE CONTACT ONLY PERMISSIBLE BETWEEN LINES FORMED BY
INTERSECTIONS OF THE TOP AND TWO SIDES OF THE FURNACE CASING
AND BUILDING JOISTS, STUDS, OR FRAMING.
THIS FURNACE REQUIRES A SPECIAL VENTING SYSTEM. REFER TO
INSTALLATION INSTRUCTIONS NO. MG-1052 FOR PARTS LIST AND
METHOD OF INSTALLATION.
MAX VENT LENGTH 75 FEET EQUIVALENT. MIN VENT LENGTH 15 FEET.
MIN WALL THICKNESS THROUGH WHICH THE VENT/AIR INTAKE
PIPES MAY PASS IS 2 INCHES AND THE MAX IS 18 INCHES.
FILTERS MUST BE INSTALLED EXTERNAL TO THE FURNACE CASING.

THERMO PRODUCTS, LLC.
390425/10_5426_PD P.O. BOX 217 - NORTH JUDSON, IN 46366
1024-1015426-PD

THIS FURNACE MUST BE INSTALLED IN ACCORDANCE WITH THERMO PRODUCTS INSTRUCTIONS AND LOCAL CODES. IN ABSENCE OF LOCAL CODES, FOLLOW THE NATIONAL FUEL GAS CODE - ANSI Z223.1

CETTE FOURNAISE DOIT ÊTRE INSTALLÉE SELON LES INSTRUCTIONS SUR LES PRODUITS THERMO ET LES CODES LOCAUX. EN L'ABSENCE DE CODES LOCAUX, RESPECTER LE NATIONAL FUEL GAS CODE - ANSI Z223.1 - ANSI Z223.1

390003

THIS FURNACE MUST BE INSTALLED SO THERE ARE PROVISIONS FOR VENTILATING AIR.

CETTE CHAUDIÈRE DOIT ÊTRE INSTALLÉE DE MANIÈRE À ASSURER UN AIR DE VENTILATION.

390555

OUTSIDE POWER SOURCE
CONNECT 115v 60Hz TO
L1 HOT AND L2 COMMON.

390229

All installations and services must be performed by qualified service personnel.

This and the previous page contain reproductions of the various warning and instruction labels placed on the Thermo Pride Condensing Gas Furnaces. Please read and comply with the contents of these labels.

⚠ WARNING
 This compartment must be closed except when servicing.

⚠ AVERTISSEMENT
 Ce compartiment doit être fermé sauf pendant l'entretien.

390553

⚠ WARNING

Hazardous flue gas. Can cause personal injury or loss of life. Inspect rubber hose connecting inducer outlet to PVC tee and all vent system joints for leak free connections before furnace operation.

⚠ ATTENTION

Gaz de combustion dangereux. Peut blesser ou tuer des personnes. Avant de démarrer la chaudière inspecter le tuyau en caoutchouc reliant la boîte de sortie de l'évacuateur au T en PVC et tous les joints du système de ventilation pour éliminer les fuites aux raccords.

390558

CAUTION

Moving parts. Can cause severe personal injury. Shut off furnace before removing this panel.

Filter maintenance: When it becomes necessary to replace or wash filter remove the dirty filter from the racks provided and wash or replace with identical new filters.

Do not remove this label

⚠ WARNING

FIRE, EXPLOSION AND ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance or installation can cause serious injury or death. Read and follow Instructions and precautions in User's Information Manual provided with this furnace. Installation and service must be performed by a qualified service agency or the gas supplier.

SPECIAL HOMEOWNERS INSTRUCTIONS

- For safe operation it is the responsibility of the owner and/or user that the burner, chimney/vent pipe, heat exchanger and controls should be inspected every year by a qualified heating contractor.
- The owner and/or user should also conduct periodic visual inspections. Refer to the users Information manual provided with this furnace for details.
- Any deficiencies noted must be corrected at once by a qualified heating contractor. Do not attempt to make repairs yourself!
- For assistance or additional information consult a qualified installer, service agency or the gas supplier.

FOR YOUR SAFETY

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

⚠ WARNING

FIRE AND EXPLOSION HAZARD

Can result in serious injury or death. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. Storage of or use of gasoline or other flammable vapors or liquids in the vicinity of this or any appliance can result in serious injury or death.

AVERTISSEMENT

Les pièces mobiles peuvent blesser gravement des personnes. Arrêter la chaudière avant d'enlever ce panneau.

Maintenance des filtres : Quand il le faut, retirer les filtres encrassés de leurs boîtiers, les laver ou les remplacer par des filtres neufs identiques.

Ne pas enlever cette étiquette

390553

⚠ ATTENTION

RISQUES D'INCENDIE, D'EXPLOSION ET D'ASPHYXIE

Un mauvais réglage, modification, révision, entretien ou installation peuvent causer des blessures sérieuses ou la mort. Lisez et respectez les instructions et précautions du Manuel d'information de l'utilisateur fourni avec cette chaudière. L'installation et la révision doivent être réalisées par une agence de service qualifiée ou le fournisseur de gaz.

INSTRUCTIONS SPÉCIALES POUR LES PROPRIÉTAIRES

- Pour un fonctionnement en toute sécurité Il est de la responsabilité du propriétaire et/ou de l'utilisateur que le brûleur, le tuyau de l'évent ou de la cheminée, l'échangeur de chaleur et les commandes soient inspectés chaque année par un chauffagiste qualifié.
- Le propriétaire et/ou l'utilisateur doivent aussi effectuer des inspections visuelles périodiques. Pour les détails, ils doivent consulter le manuel d'instructions fourni avec la chaudière.
- Toutes les déficiences doivent être corrigées immédiatement par un chauffagiste qualifié. Ne pas essayer de réparer soi-même!
- Pour toute aide ou informations supplémentaires, consulter un chauffagiste qualifié, une entreprise de service ou le fournisseur de gaz.

POUR VOTRE SÉCURITÉ

QUOI FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ

- N'allumez aucun appareil.
- Ne touchez aucun interrupteur électrique. N'utilisez aucun téléphone du bâtiment.
- Appelez immédiatement votre fournisseur de gaz à partir du téléphone d'un voisin. Suivez les directives de votre fournisseur.
- Si vous ne pouvez pas joindre votre fournisseur, appelez les pompiers.

⚠ AVERTISSEMENT

RISQUES D'INCENDIE ET D'EXPLOSION

Peuvent entraîner des blessures sérieuses ou la mort. Ne pas stocker ou utiliser d'essence ni autres vapeurs ou liquides inflammables à proximité de cet appareil ou tout autre dispositif. Le stockage ou l'utilisation d'essence ou autres vapeurs ou liquides inflammables à proximité de cet appareil ou tout autre dispositif peut entraîner des blessures sérieuses ou la mort.

⚠ WARNING: This product can expose you to chemicals, including Chromium, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠ AVERTISSEMENT: Ce produit peut vous exposer à des produits chimiques, y compris le chrome, qui sont connus dans l'état de Californie pour causer le cancer et des malformations congénitales ou d'autres problèmes de reproduction. Pour plus d'informations, visitez www.P65Warnings.ca.gov.

390341

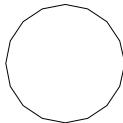
All installations and services must be performed by qualified service personnel.

This and the previous page contain reproductions of the various warning and instruction labels placed on the Thermo Pride Condensing Gas Furnaces. Please read and comply with the contents of these labels.

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- This appliance does not have a pilot. It is equipped with a hot surface igniter that automatically lights the burner. Do not try to light the burner by hand.
- BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell next to the base of unit because some gas is heavier than air and will settle on the floor or ground.
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.
- Use only your hand to move the gas control switch. Never use tools. If the switch will not move by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- Do not use this appliance if any part has been underwater. 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 underwater.



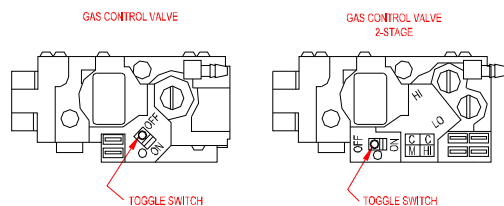
À LIRE, POUR VOTRE SÉCURITÉ, AVANT DE DÉMARRER LA CHAUDIÈRE

ATTENTION ! Si vous ne respectez pas exactement les instructions ci-dessous, un incendie ou une explosion pourraient endommager la propriété, blesser ou tuer des personnes.

- Cet appareil n'a pas de veilleuse. Il comporte une surface d'allumage chaude qui allume automatiquement le brûleur. N'essayez pas d'allumer le brûleur manuellement.
- AVANT DE DÉMARRER** la chaudière, humez l'air autour de l'appareil pour détecter une éventuelle odeur de gaz. Humez aussi l'air près de la base de la chaudière puisque le gaz étant plus lourd que l'air, il pourrait s'accumuler près du sol ou du plancher.
QUOI FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ
? N'allumez aucun appareil.
? Ne touchez aucun interrupteur électrique; n'utilisez aucun téléphone dans l'immeuble.
? Appelez immédiatement votre fournisseur de gaz à partir du téléphone d'un voisin. Suivez ses instructions.
? Si vous ne pouvez pas joindre votre fournisseur de gaz, appelez les pompiers.
- Manipulez l'interrupteur de commande de gaz seulement à la main. N'utilisez jamais des outils pour cela. Si vous ne pouvez pas manipuler cet interrupteur manuellement, n'essayez pas de le réparer, appelez un technicien de service qualifié. Forcer l'interrupteur ou tenter de le réparer, pourraient provoquer un incendie ou une explosion.
- N'utilisez pas la chaudière si l'une de ses pièces a été sous de l'eau. Appelez immédiatement un technicien de service qualifié pour qu'il inspecte la chaudière et remplace toute pièce du système de commande et tout interrupteur de commande de gaz qui ont été sous de l'eau.

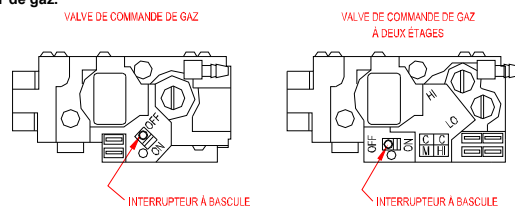
OPERATING INSTRUCTIONS

- STOP!** Read the safety information above on this label.
- Set the thermostat to the lowest setting.
- Turn off all electric power to the appliance.
- This appliance is equipped with a hot surface igniter that automatically lights the burner. Do not try to light the burner by hand.
- Move the gas control switch to the "OFF" position.
- Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor or ground. 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.
- Move the gas control switch to the "ON" position.
- Turn on all electric power to the appliance.
- Set thermostat to desired setting, and, if equipped, set the operating mode to "HEAT".
- If appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



INSTRUCTIONS POUR LE FONCTIONNEMENT

- STOP !** Lisez l'information sur la sécurité au haut de cette étiquette.
- Réglez le thermostat à sa position la plus basse.
- Coupez toute l'alimentation électrique la chaudière.
- Cette chaudière est équipée d'une surface d'allumage chaude qui allume automatiquement le brûleur. N'essayez pas d'allumer le brûleur manuellement.
- Placez l'interrupteur de commande de gaz à la position «OFF».
- Attendez cinq (5) minutes pour que tout le gaz soit évacué. Humez l'air pour détecter une éventuelle odeur de gaz, sans oublier de l'humer aussi près du sol ou du plancher. Si vous sentez une odeur de gaz, **STOP !** Suivez le point «B» de l'information sur la sécurité au haut de cette étiquette. Si vous ne sentez aucune odeur de gaz, passez à l'étape suivante. Move the gas control switch to the "ON" position.
- Placez l'interrupteur de commande de gaz à la position «ON».
- Appliquez toute l'alimentation électrique à la chaudière.
- Réglez le thermostat à la position désirée et, le cas échéant, mettez le mode de fonctionnement à la position «HEAT».
- Si la chaudière ne fonctionne pas, suivez les instructions de « POUR COUPER L'ALIMENTATION EN GAZ DE LA CHAUDIÈRE » et appelez votre technicien de service ou votre fournisseur de gaz.



TO TURN OFF GAS TO APPLIANCE

- Set thermostat to lowest setting, and, if equipped, set the operating mode to "COOL" or "OFF".
- If service is to be performed, turn off all electric power to the appliance.
- To turn off gas control valve, remove the burner compartment cover.
- Move the gas control switch to the "OFF" position.
- Replace the burner compartment cover.

POUR COUPER L'ALIMENTATION EN GAZ DE LA CHAUDIÈRE

- Réglez le thermostat à sa position la plus basse et, le cas échéant, réglez le mode de fonctionnement à la position «COOL» ou «OFF».
- S'il faut accomplir une certaine tâche, coupez toute alimentation en électricité de la chaudière.
- Pour fermer la valve de commande de gaz, enlevez le couvercle du compartiment du brûleur.
- Mettez l'interrupteur de commande de gaz à la position «OFF».
- Remplacez le couvercle du compartiment du brûleur.

All installations and services must be performed by qualified service personnel.

This page contains various warnings and cautions found throughout this manual. Please read and comply with the statements below.

⚠WARNING: IF YOU DO NOT FOLLOW THE SAFETY PRECAUTIONS BELOW AND IN THIS MANUAL, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

⚠WARNING: Property damage, personal injury, or loss of life could result from repair or service of this furnace by anyone other than a qualified heating contractor. Only the routine maintenance described in this manual may be performed by the user.

⚠WARNING: To avoid injury from moving parts, shut off the power to the furnace before removing blower compartment door.

⚠WARNING: Keep furnace free and clear of combustible materials, gasoline, and other flammable liquids and vapors.

⚠WARNING: Do not use this furnace if any part has been under water. Immediately call a qualified heating contractor to inspect the furnace and to replace any part of the control system and any gas control which has been under water.

⚠WARNING: If you suspect there is a problem with the furnace, its venting system or any other related problem, immediately contact a qualified service agency.

⚠WARNING: In the event your furnace fails to operate, do not attempt to put the furnace into operation. Contact a qualified heating contractor to service the furnace.

⚠WARNING: A fire or explosion may result causing property damage, personal injury or loss of life if you do not follow these instructions exactly.

⚠WARNING: Homeowners attempting maintenance other than that covered as homeowner/user maintenance may cause conditions which could result in personal injury or property damage.

⚠WARNING: Shut off the power to the furnace before removing blower compartment door to avoid injury from moving parts.

⚠WARNING: This furnace is not to be used for temporary heating of buildings or structures under construction.

⚠WARNING: Call a qualified heating contractor to report suspected deficiencies (Do not attempt to make repairs yourself!)

1. The furnace area must be kept clear and free of combustible materials, gasoline and other flammable vapors and liquids.

All installations and services must be performed by qualified service personnel.

2. The furnace must be kept free and clear of insulating material. The furnace area should be examined when the furnace is installed or when insulation is added. Insulating materials may be combustible.
3. For proper and safe operation the furnace needs air for combustion and ventilation. Do not block or obstruct air openings on the furnace, air openings to the area in which the furnace is installed, or the spacing around the furnace.
4. This furnace is equipped with a blocked vent shut off system. In the event that an obstruction or restriction occurs in the vent pipe or termination, the furnace will shut off and the control will flash an error code. This prevents the formation of hazardous gas products and prevents any release of exhaust gas into the home. If the furnace fails to operate, contact a qualified service agency.
5. Should the gas supply fail to shut off or if overheating occurs, shut off the gas valve to the furnace before shutting off the electrical supply.
6. Do not use this furnace if any part has been under water. A flood damaged furnace is extremely dangerous. Attempts to use the furnace can result in fire or explosion. A qualified service agency should be contacted to inspect the furnace and to replace all gas controls, control system parts, electrical parts that have been wet or the furnace if deemed necessary.
7. Visually examine the furnace at the start of the heating season and monthly during the heating season.
 - (a.) All flue gas carrying areas external to the furnace (i.e chimney, vent connector) are clear and free of obstructions.
 - (b.) The vent connector is in place, slopes upward and is physically sound without holes or excessive corrosion.
 - (c.) The return air duct connection is physically sound, is sealed to the furnace casing, and terminates outside the space containing the furnace.
 - (d.) The physical support of the furnace is sound without sagging cracks, gaps, etc., around the base so as to provide a seal between the support and the base.
 - (e.) There are no obvious signs of deterioration of the furnace.
 - (f.) The pilot and burner flames are in good adjustment (by comparison with pictorial sketches or drawings of the main burner flame and, if applicable, the pilot burner flame).

All installations and services must be performed by qualified service personnel.

II. GENERAL INSTRUCTIONS

1. **⚠WARNING:** Property damage, personal injury, or loss of life could result from repair or service of this furnace by anyone other than a qualified heating contractor. Only the routine maintenance described in this manual may be performed by the user.
2. The following diagrams show a typical furnace installation and the typical position of the components referenced in these instructions.

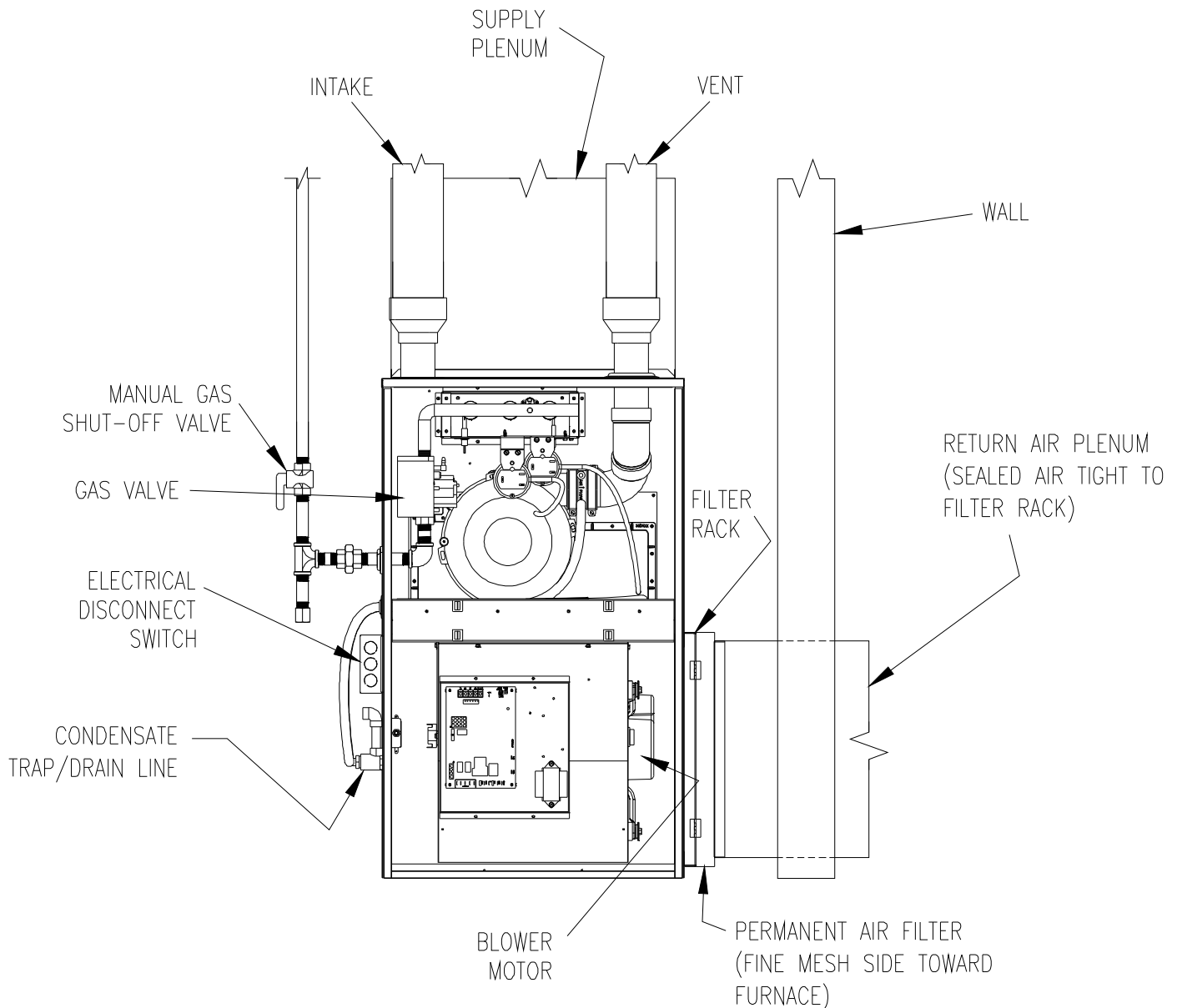


Figure 1A: Upflow

All installations and services must be performed by qualified service personnel.

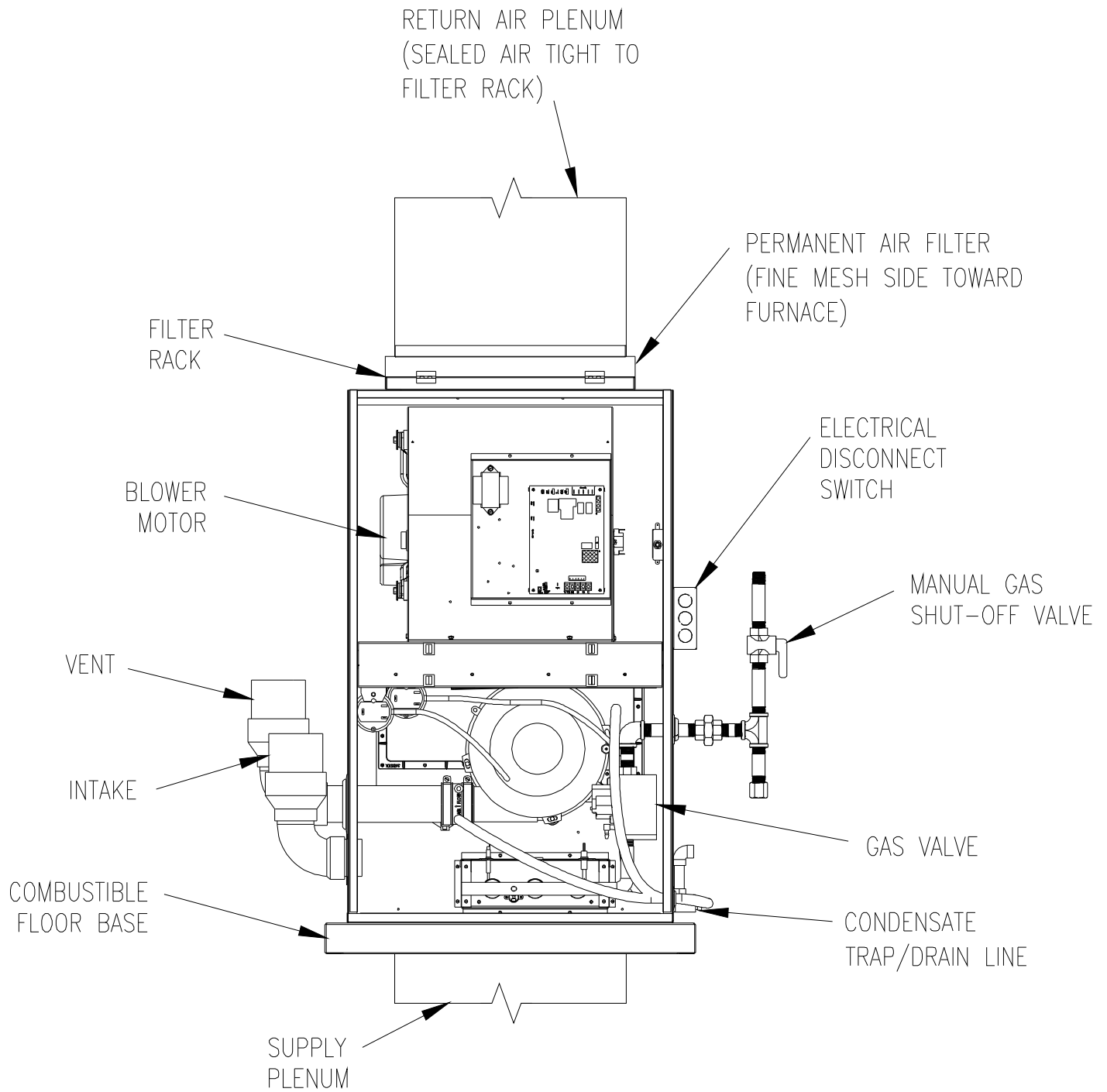


Figure 1B: Downflow

All installations and services must be performed by qualified service personnel.

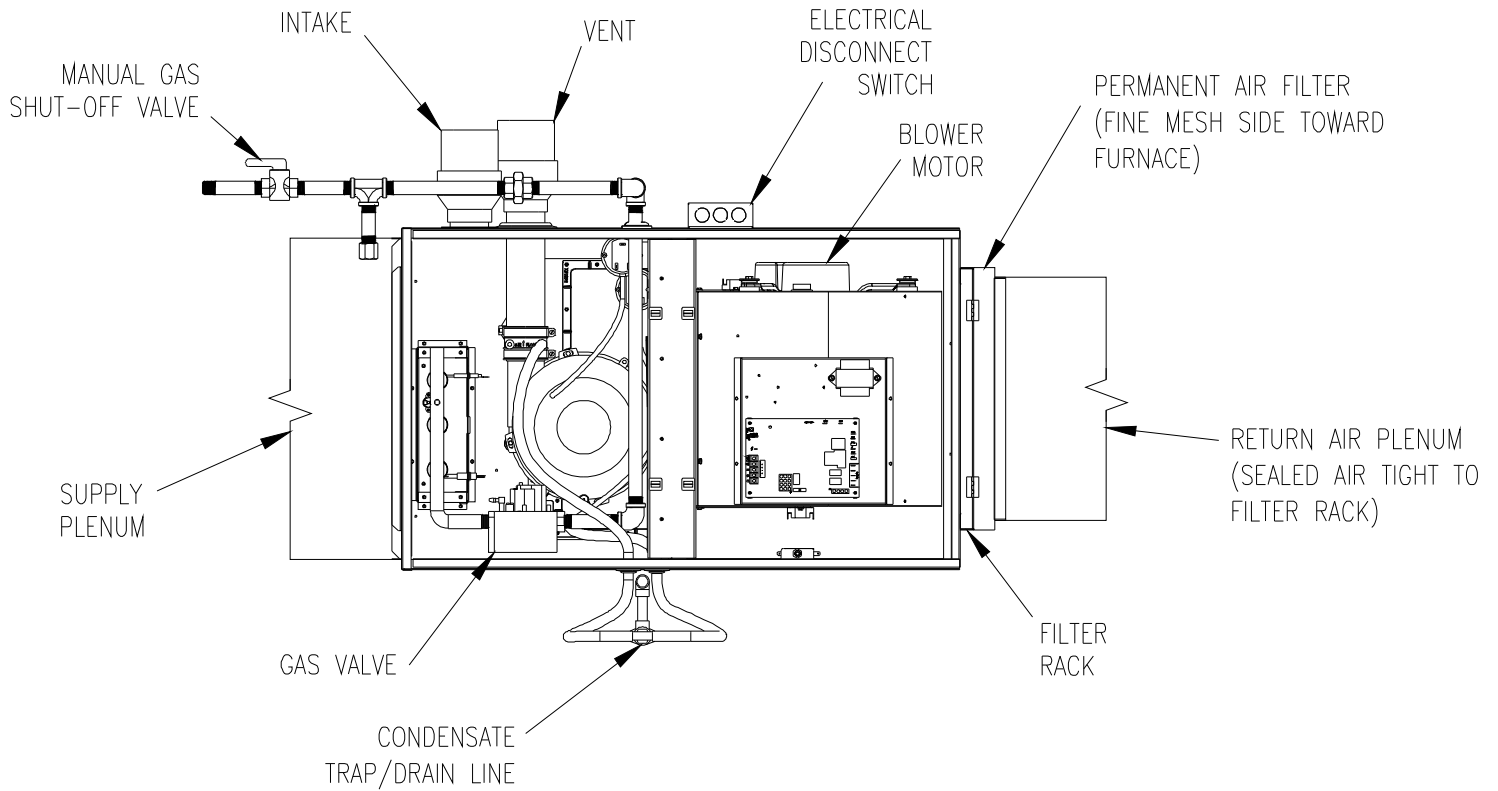


Figure 1C: Horizontal Left

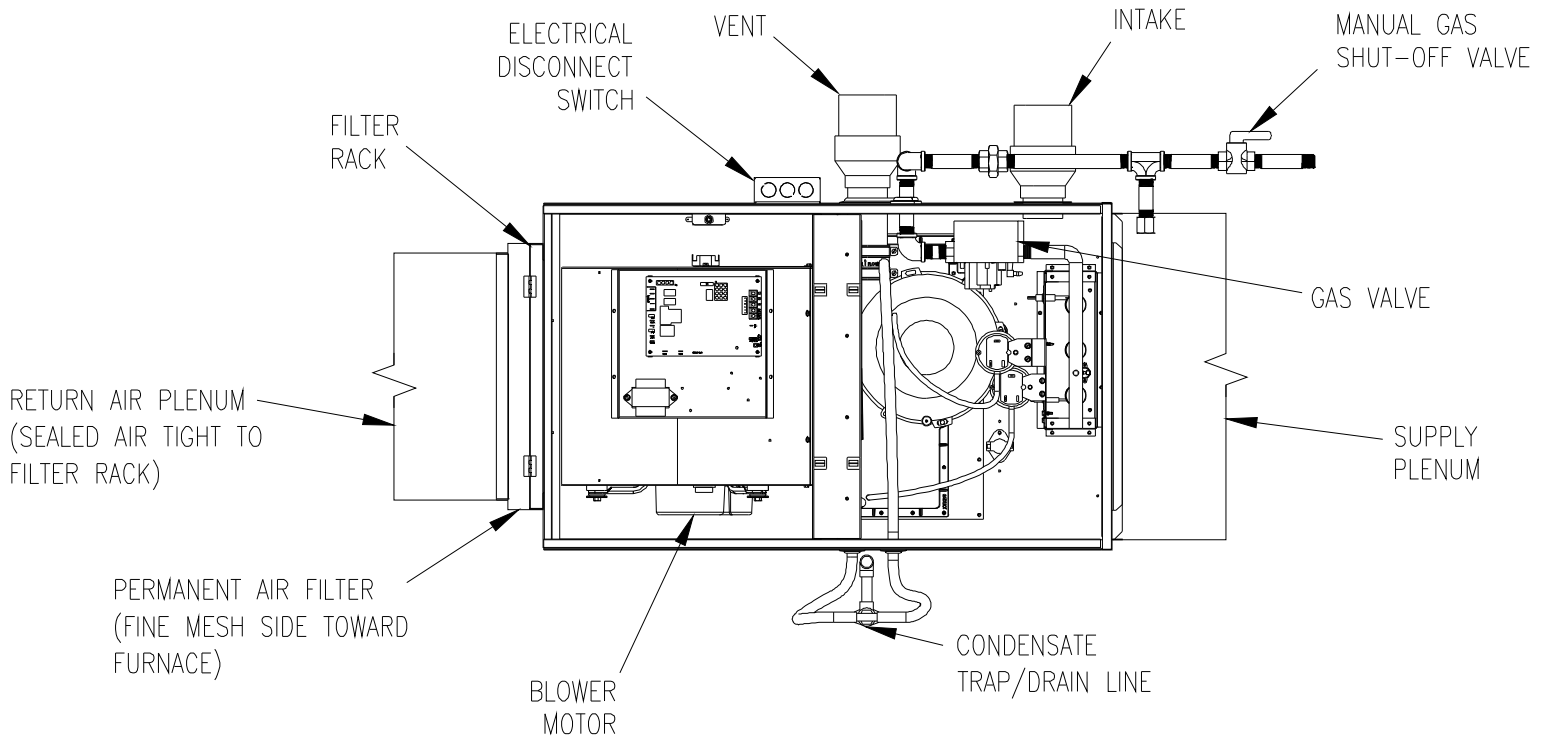


Figure 1D: Horizontal Right

All installations and services must be performed by qualified service personnel.

3. **⚠WARNING:** To avoid injury from moving parts, shut off the power to the furnace before removing blower compartment door.
4. The furnace uses outside air for combustion and ventilation for safe and proper operation.
5. **IMPORTANT:** Do not allow the outside vent terminal or air intake to be blocked or obstructed by vegetation, ice, snow or any other materials.
6. This furnace is equipped with a safety feature which will not allow the furnace to be operated if either the inlet or outlet vent to the appliance is blocked.
7. No attempt should be made to restart the unit in the event that gas to the main burner has been shut off. Contact a qualified heating contractor before restarting the furnace.
8. The furnace should be inspected annually by a qualified heating contractor.
9. Should overheating occur or the gas supply fail to shut off, shut off the manual gas valve to the furnace before shutting off the electrical supply.
10. **⚠WARNING:** If you suspect there is a problem with the furnace, its venting system or any other related problem, immediately contact a qualified service agency.
11. Your furnace should be described by the model number and serial number when contacting a qualified heating contractor. This important information is located on the rating plate behind the front door.
12. **⚠WARNING:** In the event your furnace fails to operate, do not attempt to put the furnace into operation. Contact a qualified heating contractor to service the furnace.

III. FURNACE OPERATION

A. WARNINGS BEFORE OPERATING

⚠WARNING: A fire or explosion may result causing property damage, personal injury or loss of life if you do not follow these instructions exactly.

A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

All installations and services must be performed by qualified service personnel.

B. BEFORE OPERATING - Smell all around the appliance area for gas. Be sure to smell next to the floor because some gases are heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

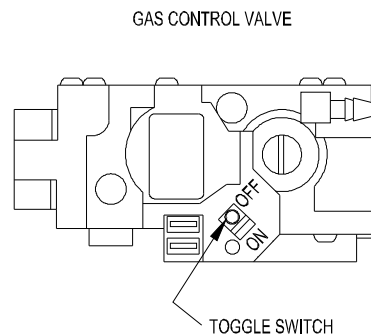
- * Do not try to light any appliance.
- * Do not touch any electric switch, do not use any phone in your building.
- * Leave the building immediately.
- * Immediately call your gas supplier from outside.
- * Follow the gas supplier's instructions.
- * If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to move the gas control switch/valve. Never use tools. If the switch will not move by hand, don't try to repair it, call a qualified heating contractor. Force or attempted repair may result in a fire or explosion.

B. OPERATING INSTRUCTIONS

TO START THE FURNACE:

1. Please read the safety information in this book before operating furnace.
2. Set the thermostat to the lowest setting.
3. Turn off all electric power to the appliance.



4. Remove the combustion burner door. (This is the door which does not have a view window.)
Gas Control Valve
5. Move gas control switch to the "OFF" position.
6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow Step B in the previous safety information. Go to the next step if you don't smell gas.
7. Move gas control switch to the "ON" position.
8. Replace combustion burner door.
9. Turn on electric power to the appliance.
10. Set thermostat to desired setting.

All installations and services must be performed by qualified service personnel.

11. Follow the instructions “To Turn Off Gas To Appliance” and call a qualified heating contractor or gas supplier if the appliance will not operate.

C. SHUTDOWN PROCEDURE

TO TURN OFF GAS TO FURNACE:

1. Set the thermostat to lowest setting.
2. Turn off the electric power to the appliance if service is to be performed.
3. Remove combustion burner door.
4. Move gas control switch to the “OFF” position.
5. Replace combustion burner door.

IV. HOMEOWNER/USER MAINTENANCE INSTRUCTIONS (ROUTINE MAINTENANCE)

The following maintenance procedures should be performed by the homeowner/user during the heating season.

⚠WARNING: Homeowners attempting maintenance other than that covered as homeowner/user maintenance may cause conditions which could result in personal injury or property damage.

⚠WARNING: Shut off the power to the furnace before removing blower compartment door to avoid injury from moving parts.

A. ANNUAL INSPECTION

The homeowner must have this furnace professionally inspected at the beginning of each heating season by a qualified heating contractor to ensure proper operation.

NOTICE: This furnace has been shipped from the factory with a permanently lubricated circulating air blower motor. Any maintenance to this blower motor is to be performed only by a qualified heating contractor.

B. FILTER MAINTENANCE PROCEDURE

1. The return air filter provided with this unit is a re-useable type filter. This filter should be inspected monthly. When dirty, the filter must be cleaned or replaced, if necessary, to assure proper furnace operation. Follow the cleaning, removal and replacement procedure below.

All installations and services must be performed by qualified service personnel.

NOTICE: If the furnace is installed in a home or structure being remodeled, dust levels may be much higher than normal. The filter must be inspected daily and cleaned as needed until dusty conditions have been eliminated.

⚠WARNING: This furnace is not to be used for temporary heating of buildings or structures under construction.

2. The filter rack or drop chute will be located between the return air plenum and the return air opening of the furnace (See Figure 3). Slide dirty filter out of the filter rack. Clean the filter by vacuuming, rinsing with tap water, hosing or dipping in an ordinary detergent solution. Replace the completely dry filter in the rack. The mesh side of the filter must be installed towards the furnace after cleaning.

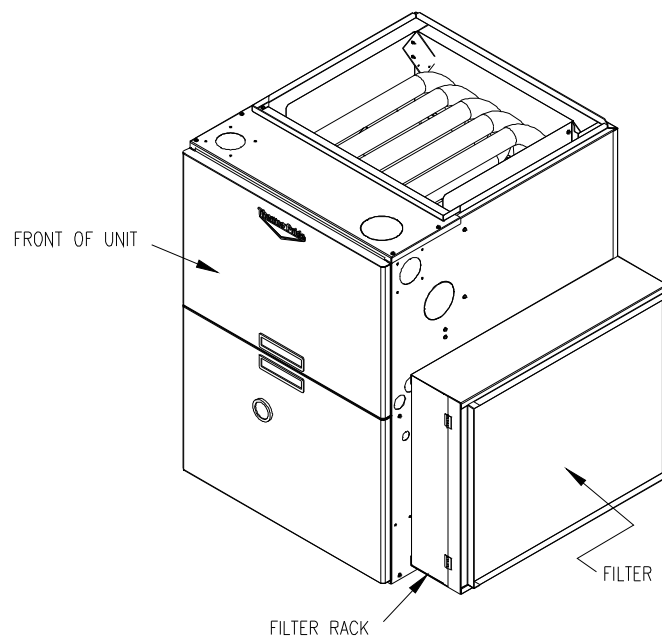


Figure 3 (Upflow example)

FILTER REPLACEMENT

See Table 1 for minimum heating filter areas required for the different types of filters available should the filter used require replacement.

If the unit is equipped with cooling, contact your installer or a qualified service person to determine the minimum filter area required for the different filter types and your cooling system.

All installations and services must be performed by qualified service personnel.

MINIMUM FILTER AREA REQUIRED

FILTER TYPE	MAX. RATED VELOCITY	FILTER AREA FOR HEATING (LENGTH X WIDTH, SQ. IN.)			
		-050	-075	-100	-125
THERMO PRIDE * SUPPLIED PERMANENT FILTER	600 FT/MIN	176 IN ²	264 IN ²	352 IN ²	440 IN ²
STANDARD PERMANENT FILTER	500 FT/MIN	211 IN ²	317 IN ²	422 IN ²	528 IN ²
DISPOSABLE TYPE FILTER	300 FT/MIN	352 IN ²	528 IN ²	704 IN ²	880 IN ²

TABLE 1

* The Thermo Products supplied filter can be cut to size to fit other filter retention systems as long as the minimum size requirement is met.

NOTICE: Any internal stiffeners used in the filter must not be removed, although they can be cut to the length required.

C. VISUAL INSPECTION PROCEDURE

It is recommended that the homeowner/user conduct the following periodic visual inspection of the furnace at the start of the heating season and monthly during the heating season.

⚠WARNING: Call a qualified heating contractor to report suspected deficiencies (Do not attempt to make repairs yourself!)

1. Turn off power to furnace.
2. Vent pipe, air intake pipe, and condensate system: Visually check the vent and intake pipe as well as condensate lines both inside and outside the furnace to make sure that vent intake joints and the condensate system are sealed. There should be no sign of water leakage at any vent intake or condensate joints or anywhere inside the furnace. Make sure that horizontal runs of vent pipe slope upward towards the outside. The inlet pipe should slope slightly downward to prevent condensate build up. Any signs of damage, leakage, deterioration, or possible blockage should be immediately reported to your dealer or the local gas company.

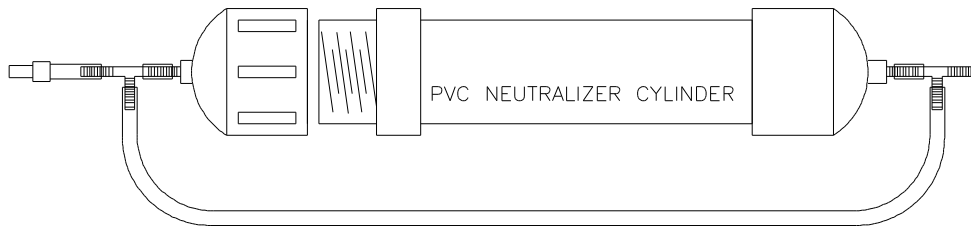
It is recommended that the condensate removal system be cleaned annually by a qualified service agency to insure its proper and continued operation.

Outside vent and outside combustion air termination: the outside vent terminations should be inspected to insure that they are clear and free of obstruction by ice, snow, debris, of vegetation. Any obstruction of the terminal should be carefully removed without damaging the vent terminal. If ice has formed on the outside terminals themselves, it should be removed.

All installations and services must be performed by qualified service personnel.

3. If the furnace is equipped with a Thermo Products, LLC. condensate neutralizer kit, (See Figure 4) it should be inspected at the start of every heating season. Remove the 2” PVC cap from the neutralizer kit and replace dissolved filter material with #9 limestone. Keep instructions for neutralizer kit in plastic pouch on the inside of the furnace blower door.

Figure 4



4. Return Air Duct Connection: Check to see if it is (1) physically sound; (2) sealed to the furnace casing; and (3) terminates outside the space containing the furnace.

5. Examine the entire furnace, including removing the vestibule door and inspect the control compartment and the furnace for signs of damaged or unusually worn wiring, condensation, sooting or other damage or deterioration.

6. Restore power to the furnace. Follow the operating instructions to light furnace.

7. Make sure the gas is burning properly (See Figure 5). Burner flames should not impinge or fire against the side of the tube opening.

NOTICE: It is not unusual to have orangish flames visible in the tube for LP gas.

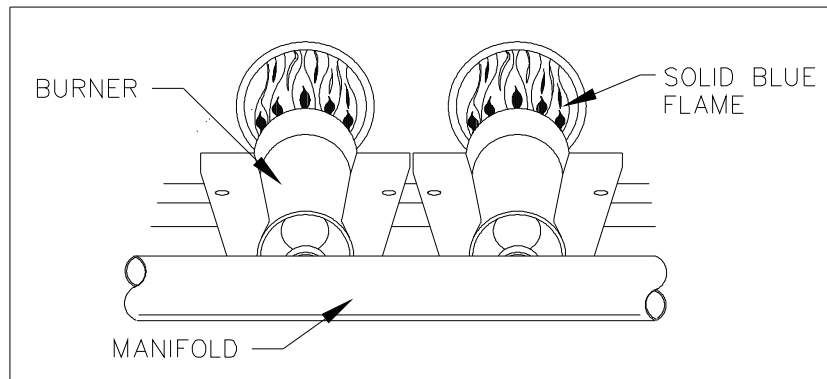


Figure 5

WARNING: Call a qualified heating contractor to report suspected deficiencies (do not attempt to make repairs yourself!)