

3" & 4" MODEL UPP TO DT DIRECT VENT



This Instruction Supplement covers important information for the use/adaptation of Model RT R the use/adaptation of Model DT Direct Vent for pellet fired appliance venting applications. In this application Model DT provides necessary outside combustion air directly to the appliance. It also covers information regarding Model DT's adaptation to Model UPP Vent. It is this adaptation which makes it possible for Model DT to be utilized as a pellet stove venting system.

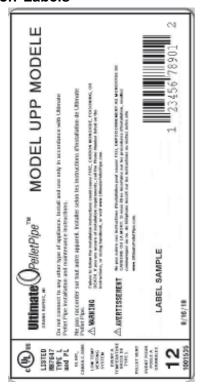
#### Listina

In addition to being Listed as a direct vent system for gas fired direct vent appliances, Model DT Direct Vent has been tested and listed by Underwriters Laboratories, Inc. in accordance with UL641, the Standard for Low Temperature Gas Venting Systems and to CAN/ULC-S609 for Low Temperature Vents Type PL for pellet stoves in which flue gas temperatures does not exceed 570° F (300°C).

NOTE: Refer to the main Model DT Direct Temp installation Instructions for further details on the use of this product. (Flashings, Supports, Offsets, Adjustables ... Etc.) Read the appliance installation instructions for any further installation or layout restrictions.

Selkirk Model DT has a 4" inner liner and a 6-5/8" outer jacket. It is permissible to adapt the Model DT to both a 3" and a 4" pellet stove outlet collar. Model DT can be adapted to Pellet Stoves with specially designed Adapters used in conjunction with one or more components (Tee, Short Length ...etc.) of Model UPP Vent for Pellet Stoves. The installation of Model UPP shall facilitate cleanout and removal of parts for examination, repair and maintenance.

# Certification Labels



# WARNING

Failure to follow the installation instructions could cause FIRE, CARBON MONOXIDE POISONING, OR DEATH. If you are unsure of installation requirements, call the telephone number listed on these instructions, or visit our website www.selkirkcorp.com.

# Minimum Clearance and Framing

Model DT has a 1" minimum airspace clearance to combustibles requirement when used as L Vent. This applies whether DT is being used to bring outside air to the pellet appliance or not. Do not fill this space with insulation or any other material. The airspace is required for the safe operation of the vent. Model UPP has a clearance to combustibles requirement of 1".

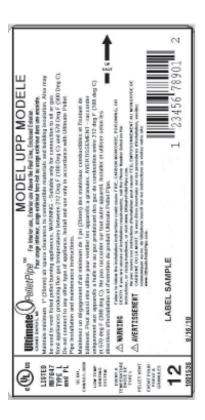
"Combustibles" include framing lumber, drywall, plaster, plywood, paneling and other building materials.

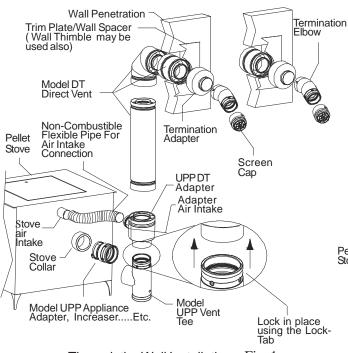
For penetrating walls, ceiling joists or roof joists the required framing dimensions for Model DT are 8-5/8" x 8-5/8". This will provide a 1" clearance for a properly centered vent. A Wall Thimble is available with framing dimensions of 8-3/4".

**NOTE:** While these instructions focus on proper installation of DT when outside air is being drawn to appliance, if other sources of combustion air are provided, DT may be used with the combustion air passageway blocked, still at 1" airspace clearance.

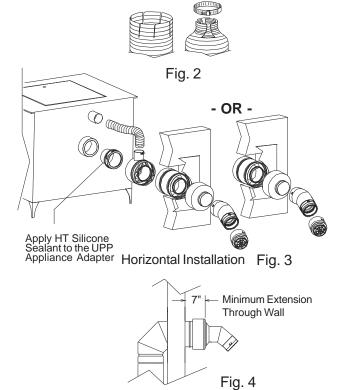
# Planning and Layout

• Refer to the appliance installation instructions for proper layout requirements and restrictions.

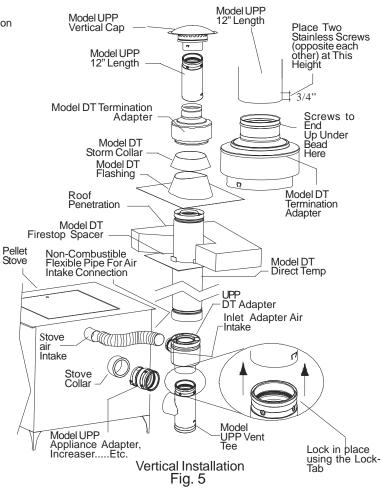




Through the Wall Installation Fig. 1



- When locating appliance, consider building structure so that the vent will not interfere with ceiling joists, wall studs, electrical wiring or water pipes.
- Determine the type of installation and termination (vertical or horizontal) that will be installed and obtain the necessary parts to complete the installation (See Figs. 1, 3, and 5 for installation examples and their required parts).



# To Install

- Connect the UPP APPLIANCE ADAPTER onto the flue collar of the appliance. Use high temperature RTV silicone on the joint to ensure a good seal.
- 2) Connect the UPP DT Adapter to the UPP Vent (See Fig 1.). The UPP DT Adapter comes with an inlet end that will properly connect to Selkirk Model UPP Vent and adapt to standard Model DT. It can be recognized by the presence of a 3" diameter air intake snout for bringing combustion air to the stove.
  - a) If the vent planning was to include a vertical rise, a tee section must be used to turn the vent vertical (See Fig. 1).
  - b) The built-in silicone gasket will provide an air tight seal for positive pressure venting.
  - Prior to engaging UPP parts, determine the desired finished orientation of the part. Consider this orientation before engaging the Lock-Tab.
  - d) Engage segments, and lock together with Lock-Tab.

- 3) Connect the stove air intake to the air intake on the DT Adapter. The connection can be made using Selkirk's Combustion Air Kit (CAK) or with other non-combustible 3" diameter flexible pipe and hose clamp.
  - Engage the flex pipe into the combustion air snout of the Stove adapter and secure by tightening the integrated clamp tabs on the snout.
  - b) Cut the flex pipe to the length necessary to reach the combustion air inlet of the pellet stove.
  - c) Fit the flex pipe over the pellet appliance combustion air inlet and secure with a hose clamp. If the combustion air inlet on the appliance is less than 3" in diameter it may be necessary to reduce the diameter of the flex to ensure a secure connection. This can be done by making parallel cuts around the circumference of the flex pipe. Overlap the cut edges to reduce the end diameter of the flex down to the diameter of the outlet on the appliance and secure with hose clamp (See Fig. 2).
- 4) Connect remaining DT vent parts as needed. Refer to main Model DT Direct Temp installation instructions for proper procedure of joint assembly and installation of other necessary parts (Wall and Roof penetrations, Flashings, Supports, Offsets, Adjustable lengths, etc.).
- 5) Connect Termination Adapter. The Termination Adapter (VPTA) can be recognized by the presence of an extra housing around the outlet end of the adapter which provides a passage way for intake air. This intake air passage way must remain free from obstruction at all times.
  - a) Connect the inlet end of the VPTA to the DT vent extending through the roof or wall. Join parts using the standard DT joint connection method. Note: For Horizontal installation, the VPTA must be at least 7" from the wall (See Fig 4.), and 12" from the Roof in vertical installations.
  - Depending on type of installation or termination option selected (Vertical or Horizontal) refer to the corresponding section below.

# HORIZONTAL INSTALLATION TERMINATION OPTIONS

**Termination Elbow (UPP-45E)** - The Termination Elbow in conjunction with the Screen Cap is used in an horizontal through-the-wall installation. This design will direct flue gases away from the wall and increase their velocity, projecting them further away from the building (See Fig. 1 and Fig.3).

**Note:** When using the Termination Elbow make sure it will be installed so that the hot flue gases do not overheat any of the surrounding area or pose any burn hazard to humans.

To Install: Insert the inlet end of the Termination Elbow over the outle Figs. 1 and 3). Secure with two #8 x 1/4" stainless steel screws (oppend of the Termination Elbow.

**Screen Cap (UPP-SC) -** Used in conjunction with the Termination Elbow it is design to keep debris from entering the system.

To install: Ensure the outlet end of the Termination Elbow is facing down. Slide the Screen Cap over the onto the Termination Elbow until fully seated. The Locktab is then depressed (with thumb or blunt object) into the lock channel of the male end.

# VERTICAL INSTALLATION TERMINA-TION OPTIONS

**Model UPP 12" Length at Termination -** It is required to install a 12" length of Model UPP at the Termination Adapter. Push pipe length down onto the adapter until fully seated. Attach by drilling two holes (opposite each other and approximately 3/4" up from inlet end of pipe) through outer wall and secure with two 1/4" long #8 stainless steel sheet metal screws. See Fig. 5.

**Vertical Termination Cap (UPP-VC)** - The Vertical Termination Cap is intended for use in all installations in which the vent terminates in a vertical orientation. The cap provides necessary protection of the vent system from rain and other elements.

To Install: Push the cap down onto the section of Model UPP until fully engage. The Locktab is then depressed (with thumb or blunt object) into the lock channel of the male end of the UPP Length (See Fig. 5).

# TERMINATION HEIGHT ABOVE ROOF

The termination of Model VP should be located a sufficient distance from the roof so that the discharge opening is at least three (3) feet above the roof surface, or nearby structure or as specified by the appliance manufacturer.

#### **ENCLOSURES**

away from the vent system.

The vent system should be enclosed in occupied areas, closets, storage rooms, and accessible attics. This does not apply to the portion of the system that is in the same room as the Pellet Stove. Enclosures may be built of ordinary drywall or plywood at the required minimum of 1 INCH AIRSPACE CLEARANCE. There are no special parts to maintain clearance to inside surfaces of walls or enclosures. Therefore, the vent installer should take all necessary precautions to assure that this 1 inch minimum airspace is maintained. In unoccupied attics, it is very important to be sure that blown-in or other insulation does not come in contact with the vent system. A full enclosure in the attic should extend to the roof. However, it only needs to be finished well enough to keep insulation and stored furnishings

NOTE - Enclosures maintaining the minimum airspace clearance are especially important in attics insulated with CELLULOSE type insulation which may be composed of old newspapers and other cellulose materials which are very susceptible to ignition of a fire.

Also the enclosure, by protecting the vent from cold outdoor temperatures, may improve appliance operation. A vent system enclosure is also recommended for any exterior systems and portions extending through unheated areas. This enclosure is helpful in reducing internal condensation, residue buildup from products of combustion and metal deterioration.

# RULES FOR DISTANCES FROM HORIZONTAL EXIT TERMINATIONS

General VENT layout is shown in Figures 1 through 5. In selecting the location for the appliance and the vent, it is necessary to take into account the rules of CAN/ULC-S609 (Canada) and NFPA 211 (USA).

The termination of a sidewall vent serving a pellet-burning appliance shall be located to avoid personal burn injury, fire hazard and interference with or damage to adjacent properties.

### When installed in the USA:

In the absence of overriding local requirements, use the following National Fire Protection Association Standard 211 guidelines for distances from the exit termination to doors, windows, air inlets, etc.:

The exit terminal of a mechanical draft system, other than a direct vent appliance (sealed combustion system appliance), the Termination shall be located in accordance with the following:

- A. Not less than 4 ft. (0.91 m) above any forced air inlet located withing 10 ft. (3 m);
- B. Not less than 4 ft. (1.2 m) below, 4 ft. (1.2 m) horizontally from, or 1 ft. (305 mm) above any door, window or gravity inlet into any building;
- C. Not less than 2 ft. (0.6 m) from adjacent building and not less than 7 ft. (2.1 m) above grade when located adjacent to public walkways.

#### When installed in Canada:

The Termination of a side-wall vent shall be located to avoid personal burn injury, fire hazard, and interference with or damage to adjacent properties. The following restrictions applies:

- A. Vent Length must not exceed 1200 mm (48") or the maximum length specified by the manufacturer;
- B. The minimum and maximum equivalent length of the throughthe-wall venting system shall be in accordance with the certified appliance manufacturer's instructions:
- C. Within 1.8m (6 ft) of a mechanical air supply inlet to a building;
- D. Above a gas meter/regulator within 900 mm (36") horizontally of the vertical centre of the regulator;
- E. Within 1.8m (6 ft) of a gas service regulator vent outlet or within 1 m (3 ft) of an oil tank vent or an oil tank fill inlet;
- F. Less than 300 mm (12") above grade level or any adjacent surface that might support snow, ice, or debris;
- G. Within 1 m (3 ft) of a building opening (windows and doors) or air inlet of another appliance;
- H. Not less than 600 mm (24 ft) from adjacent building and not less than 7 ft. (2.1m) above grade when located adjacent to public walkways, lane, street, right-of-way, stairway, or landing;
- I. Directly above a paved sidewalk or paved driveway that is located between two single-family dwellings and serves both dwellings;
- J. Within 1.8 m (6 ft) of the property boundary;
- K. Within 1 m (3 ft) horizontally of the vertical centre line of a gas service regulator;
- L. In any enclosed or semi-enclosed areas such as a carport, garage, attic, crawlspace, narrow walkway, closely fenced area, under a sundeck or porch, or any location that can built up a concentration of fumes such as stairwells, covered breezeway, etc.;
- M. Underneath a veranda, porch or deck, where the veranda, porch or deck is not fully open on a minimum 2 sides beneath the floor and the distance measured between the top of the vent to the underside of the veranda, porch or deck is greater than 300 mm (12");
- N. Less than 1200 mm (48") beside or below any door or window that may be opened, or less than 450 mm (18") if outside fresh air is installed;
- O. Less than 300 mm (12") above any door or window that may be opened, or less than 230 mm (9") if outside fresh air is installed;
- P. Less than 600 mm (24") below any ventilated eave or roof overhang, or less than 450 mm(18") below any unventilated eave or roof overhang;
- S. Less than 300 mm (12") to an outside corner, and less than 300 mm(12") to an inside corner of a combustible wall;
- T. Guards shall be provided around the termination of the sidewall venting system to prevent contact and physical damage.

### **MAINTENANCE REQUIREMENTS**

Refer to the appliance manufacturer's maintenance instructions for recommendations relative to required maintenance of your appliance.

- —Model DT, when used as an L-Vent system, requires periodic inspection and cleaning with an appropriately sized brush which will not scratch the inside surface of the flue. DO NOT USE chemical cleaners to clean your venting system
- —Frequency of necessary vent system cleaning will vary with the appliance, vent system configuration and climate. Certain pellet burning appliances or pelletized fuels may give off more fine dust than others.
- —In any case it is recommended that the complete assembly be inspected and cleaned (if any buildup has occurred) at the beginning of each heating season and at least monthly thereafter.
- —TO INSPECT AND CLEAN . . . Remove the Termination Cap and/or Tee Cap by prying the LockTab with a flathead screwdriver and twisting and pulling until it disengages from the vent. Inspect system. If necessary clean by running a brush through the system several times in each direction. NOTE Be sure that Tee and Termination caps are reinstalled and secured when Inspection/Cleaning is completed and before the system is put back in use.



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