



INSTRUCTION SUPPLEMENT

MODEL 3" & 4" VP TO DT DIRECT VENT FOR PELLET STOVE INSTALLATION

DIRECT-TEMP



GENERAL

This Instruction Supplement covers important information for 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.

Listing

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) of Selkirk Model VP L-Vent for Pellet Stoves. The installation of Model VP shall facilitate cleanout and removal of parts for examination, repair and maintenance.

Certification Labels

⚠ WARNING

Failure to follow the instructions could cause **FIRE, CARBON MONOXIDE POISONING, OR DEATH.** If you are unsure of installation requirements, call the Phone Number listed on the instructions or sizing handbook or visit 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.

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

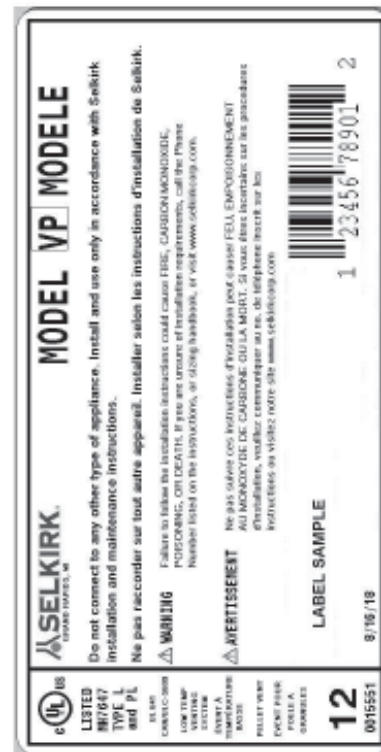
For penetrating walls, ceiling joists or roof joists the required framing dimensions are 8-5/8" x 8-5/8". This will provide a 1" clearance for a properly centered vent.

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. VP Vent has a clearance of 1" in the US and 3" in Canada.

ADAPTERS

Pellet Stove Adapter

The Pellet Stove Adapter comes with an inlet end that will properly connect to Selkirk Model VP L-Vent and a standard Model DT outlet. It can be recognized by the presence of a 3" diameter air intake for bringing combustion air to the stove.



the adapter to the pellet pipe using the three 1/4" #8 sheet metal screws provided. When connecting the Multi-Function Connector (MFC) to the DT Pellet Stove Adapter, a bead of sealant should also be applied to the outside perimeter of the MFC. To install the sheet metal screws, first align the pilot hole in the Stove Adapter with the hole in the MFC and install screw (See Fig. 5). Complete by installing the remaining 2 screws and connecting other sections of Model DT Direct Vent as needed following Model DT main instructions.

Connecting to Stove Air Intake

Connection of the stove air intake to the Pellet Stove Adapter (4DT-VP SA) can be made with the use of Selkirk's Combustion Air Kit (4DT-CAK) which comes with a 3 foot long section of aluminum flexible pipe (3" in diameter) and a hose clamp. Connect the flex pipe by inserting it into the combustion air snout of the Stove Adapter. Tighten by using the adapters integrated clamp tabs. Cut the aluminum flex pipe to the length necessary to reach the pellet stove combustion air inlet. Fit the aluminum flex pipe over the pellet stove combustion air inlet. If the diameter (OD) of the inlet is less than 3", make 4 to 6 three inch long parallel cuts equidistant around the circumference of the flex pipe end. Overlap the cut edges to reduce the flex pipe end diameter to the diameter of the stove combustion air inlet. Secure the flex pipe to the inlet using the hose clamp. (See Fig 2)

Note: The connection can be made as described with most non-combustible 3" flexible pipe and a hose clamp.

Outlet Termination Adapter

The Termination Adapter comes with a standard Model DT Inlet connection and an outlet that will accommodate Selkirk's Decorative Cone Cap (4DT-DCC), Exit Cap (4VP-EC), Termination Elbow (DT-VPTE) and Vertical Cap (VP-VC). It can be recognized by the presence of an extra housing around the outlet end of the adapter which provides an intake air passage way.

NOTE: The intake air passage way must remain free from obstruction at all times.

Connect the adapter to the Model DT by sliding it over the Direct Vent that is either extending through the wall or through the roof depending on the type of installation. For through-the-wall installations using the Termination Elbow (4DT-VPTE), install and attach using one 1/4" stainless steel screw.

Attach the Decorative Cone Cap (4DT-DCC) or Vertical Cap (VP-HC) to complete the system. See Sections on Vertical Termination, Horizontal Termination and Termination Elbow for more detail. Reference Figs 1-6 for guidance.

ENCLOSURES

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 need only be finished well enough to keep insulation and stored furnishings away from the vent system.

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.

MODEL VP 12" LENGTH AT TERMINATION

It is required to install a 12" length of Model VP 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. 6.

VERTICAL TERMINATION CAP (VP-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 VP until the spring clips engage. No additional attachment is required. (See Fig. 6)

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.

HORIZONTAL DECORATIVE CONE CAP (4DT-DCC)

The Decorative Cone Cap is designed specifically for use on installations in which the vent terminates in a horizontal orientation on the outside of a structure.

To Install: Slide the Cone Cap onto the Outlet Adapter or Termination Elbow (if using) until fully seated. Using the screw and nut provided, tighten the Cone Cap clamp band around the adapter outlet until a snug fit is achieved.

EXIT CAP (VP-EC)

The Exit Cone Cap is designed to direct flue gases perpendicular to the wall and to increase their velocity, projecting them further away from the building.

Note: When using the Exit Cone Cap, 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: Slide the Exit Cone Cap onto the Termination Adapter until fully seated. While holding cap in place, drill two holes into the adapter using the holes near the inlet end of Exit Cap as a guide. Secure with screws provided.

TERMINATION ELBOW (4DT-VPTE)

The Termination Elbow is used in through-the-wall installations and provides for redirection of exhaust gases if needed or desired. (See Fig. 1 and Fig.3)

To install: insert the inlet end of the elbow into the outlet end of the Termination Adapter until fully seated. Attach with one stainless steel, #8, 1/4" screw.

RULES FOR DISTANCES FROM HORIZONTAL EXIT TERMINATIONS

General VENT layout is shown in Figures 1 through 4. 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 within 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 apply:

- 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 through-the-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 build 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 side-wall 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 by removing any screws, then rotating and pulling until it disengages. Remove the tee cap(s) by removing the stop screw and pulling the cap off. 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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