

## ⚠ IMPORTANT INSTRUCTIONS

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to person, including the following:

1. Read all instructions before using this linear convector.
2. Heater and controls should be installed by a qualified contractor. Wiring procedures and connections should be in accordance with the National Electric Code (CEC & NEC) and local codes.
3. A linear convector has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are used or stored.
4. This linear convector is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this linear convector. Keep combustible materials such as: furniture, pillows, bedding, papers, clothes and curtains away from linear convector.
5. To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces like a bed where openings may become blocked.
6. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the linear convector.
7. Do not install these linear convectors against combustible, low density cellulose fibre surfaces.
8. Do not locate these linear convectors below any electrical convenience receptacles.
9. Check linear convector nameplate ratings to be sure linear convector voltage is the same as the service supply. (The nameplate is located below the right side of the heating element.)
10. **HIGH TEMPERATURES:** Keep electrical cords, furniture, draperies or any other blocking material away from the linear convector.

## SAVE THESE INSTRUCTIONS

### ✂ Installation Instructions

#### PLACEMENT OF THE LINEAR CONVECTOR

Linear Convectors are high performance heaters designed to operate at higher outlet temperatures than conventional baseboard heaters. They can be directly mounted onto plaster, wood or concrete walls. Due to the higher outlet temperature, the wall surface can reach temperatures of 167° F (75° C) or above and some materials may discolor or deform at these temperatures, e.g. vinyl. In these cases the heater can be mounted with an offset from the wall and floor to reduce the temperature being applied to those materials. By installing the heater 5/8" (1.6 cm) off the wall and 1/4" (0.6 cm) off of the floor, the temperature of the wall above the heater can be reduced to 149° F (65° C).

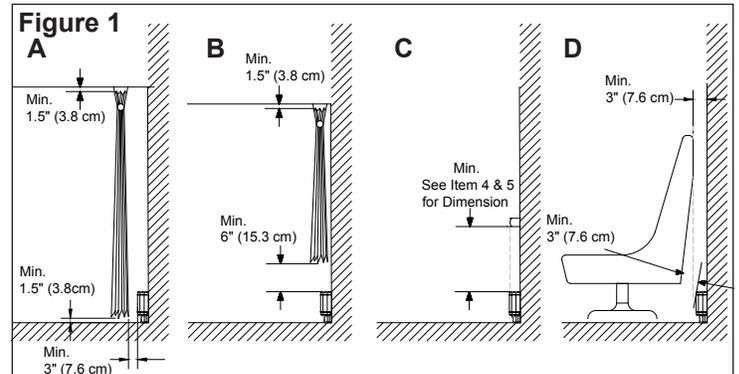
⚠ **NOTE:** If the unit is being installed on a newly constructed wall, ensure that all products that have been applied are fully cured according to manufacturer's instructions, before operating the unit.

#### RECOMMENDATIONS FOR LOCATING DRAPES AND FURNITURE NEAR HEATER (FIGURE 1)

⚠ **NOTE:** For objects located at specified distances (see below) from the heater, their materials should not discolor, nor distort dimensionally (stretch or shrink) upon extended exposure (1000 hrs.) to a temperature of 200° F (93° C).

For most satisfactory operation of the heaters and minimum effect on drapes, furniture and objects in close proximity, the following recommendations should be observed:

1. **Full Length Drapes:** Hang drapes so there is at least 1.5" (3.8 cm) between the top of the drapes and the ceiling, at least 1.5" (3.8cm) between the bottom of the drapes and the finished floor covering (such as carpet, if used) AND at least 3" (7.6 cm) between the front vertical surface of the heater and the nearest fold



of the drapes (opened drape). (Figure 1A)

2. **Shorter Length Drapes:** Hang drapes so there is at least 1.5" (3.8 cm) between the top of the drapes and the ceiling, and at least 6" (15.3 cm), preferably more, between the bottom of the drapes and the top horizontal surface of the heater. (Figure 1B)
  3. **Furniture:** Place furniture no closer than 3" (7.62 cm) from the front of the Linear Convector. (Figure 1D)
  4. **Overhanging Solid Objects (Except Plastic):** Position Linear Convector so there is at least 14" (35.6 cm) between the top of the heater and any solid object that obstructs or redirects the vertical air flow out of the top of the unit. (Figure 1C)
  5. **Overhanging Plastic Objects:** All Plastic items that cannot withstand extended exposure to temperatures 60° C or higher should be kept a minimum of 20" (50.8cm) above the unit. (Figure 1C)
- ⚠ **NOTE:** Ensure that when 2 Linear Convectors are installed near the same corner they are both a minimum of 6" (15.3 cm) from the corner.

#### FACTORY WIRING OF THE LINEAR CONVECTOR

All linear convectors have provisions for connection to either end of the linear convector. The lead wires at either end are factory spliced with wire nuts as a closed circuit. The circuit may be opened at either wire nut connection to make connections to the power supply and/or to the desired controls. (See Wiring Diagrams)

#### CONTROLS (not included)

A thermostat control (wall mounted or built-in) is required to operate this unit. Typical Dimplex controls:

- Built-in thermostat kits: DTK-SP, DTK-DP, DTKT-SP or DTKT-DP
- External line voltage thermostats: TSxx or TDxx
- Built-in low voltage relay: BLLVCxx or BLLVD

#### INSTALLATION

⚠ **WARNING:** Disconnect power supply before installation to prevent electric shock.

1. Unpack and place Linear Convector on floor face up, use packaging to protect floor if required. Remove front covers.
  - ⚠ **NOTE:** Remove the center cover, by releasing the top first.
  - ⚠ **NOTE:** Heater fins can be easily bent. For optimal performance ensure that they remain vertical.
2. Orient unit in desired location and mark pilot holes - top and bottom at both ends and at least one set in middle.
3. Wire unit as per diagrams on page 3 and National and Local Electrical Codes.
  - ⚠ **CAUTION:** Connect heaters to a branch circuit used only for permanently installed heater and protected by over current devices rated or set at no more than 30 amperes. The total connected load should not be more than 80% of the rating of the over current devices. It may cause a fire hazard if not installed and maintained in accordance with these instructions.
4. Position Linear Convector, pushing cable back into wall (or conduit), run screws through pre-selected mounting holes and spacers (if applicable), using appropriate wall anchors, if necessary.
  - ⚠ **NOTE:** Screw should be backed off 1/2 turn from snug posi-

tion to allow free expansion and contraction of housing and to ensure quiet operation.

5. Replace covers on unit.

**! NOTE:** Install the center cover first, by installing the top first, then the bottom.

### CONNECTING MULTIPLE LINEAR CONVECTORS TOGETHER

The linear convectors can be connected end to end to form a continuous length of linear convector section. When units are installed end to end, join the linear convectors to ensure ground continuity between.

## Operation

1. This linear convector must be properly installed before it is used.
2. Prior to energization remove all construction dirt (plaster, sawdust, etc.) from interior and exterior of linear convector.

Dimplex linear convectors are designed and tested for safe and trouble-free operation. All Dimplex linear convectors are protected against overheating by a built-in thermal cutout. Free airflow throughout the linear convector is extremely important for the most efficient operation of the linear convector. Restricted airflow may cause the thermal overload protector to cycle the linear convector "ON and OFF". A cycling linear convector will not supply sufficient heat to the room.

**⚠ CAUTION:** Avoid direct contact of paper, fabric, or furniture with linear convector, to prevent a possible fire.

## Maintenance

**⚠ CAUTION:** Before removing the front cover for cleaning, make certain the power has been turned off at the circuit breaker panel, to prevent electric shock.

**⚠ CAUTION:** To avoid burns, allow adequate time for the element and body casing to cool before attempting to work on the linear convector.

The LC series contain no moving parts. Since the appliance contains no moving parts little maintenance is required beyond vacuum cleaning. It is however essential that the linear convector is not operated with an accumulation of dust or dirt on the element, as this can cause a build up of heat and eventual damage. For this reason the linear convector must be inspected regularly, depending upon conditions and at least at yearly intervals. Once cleaning is complete replace the front cover and restore power.

**! NOTE:** The user can perform cleaning ONLY. All other servicing should be performed by qualified service personnel.

## Warranty

The Manufacturer warrants the linear convector and components of the enclosed product against any defect in material or workmanship for a period of one year from the date of purchase, with the exception of the elements which are warranted to be free from defect in material and workmanship for ten years. In full satisfaction of any claims under this Warranty the Manufacturer will repair or replace without charge, in its factory or in the field as it alone may decide, any parts which in its opinion are defective.

The Manufacturer shall not be responsible for any transportation or shipping costs in relation to such repair or replacement except as specifically assumed by it. Misuse of this product or repairs by persons other than the Manufacturer's authorized personnel without the Manufacturer's written approval, will void this Warranty.

This Warranty is in lieu of all other warranties or conditions whether expressed or implied including but not limited to those of merchantability or fitness for purpose and shall constitute the sole remedy of the Purchaser and the sole liability of the Manufacturer in respect of the sale of the product, whether in the nature of breach or breach of fundamental term, or of negligence or otherwise.

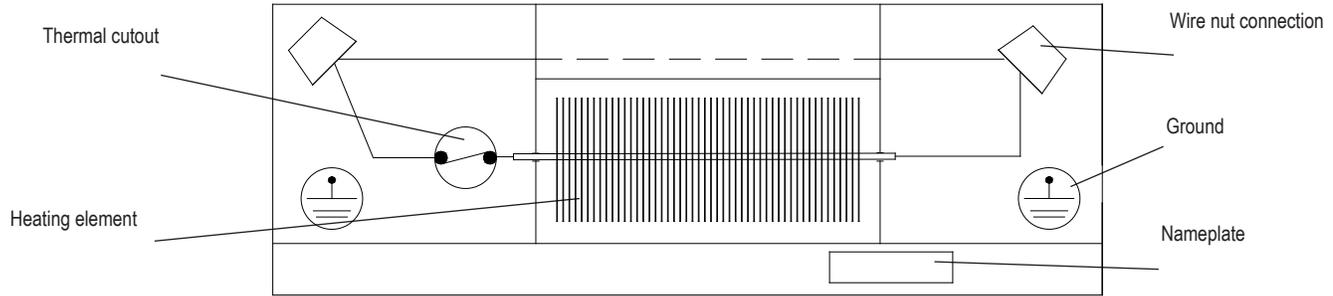
The Manufacturer shall not be liable for any special, indirect or consequential damages or for any damages resulting from removal or replacement of a linear convector subject to warranty claim without the Manufacturer's authorization.

This Warranty is transferable by the original consumer purchaser of the product. Any claims under this Warranty must be submitted in writing to the Service Manager, Dimplex North America Ltd., 1367 Industrial Rd., Cambridge, Ontario N1R 7G8, Canada.

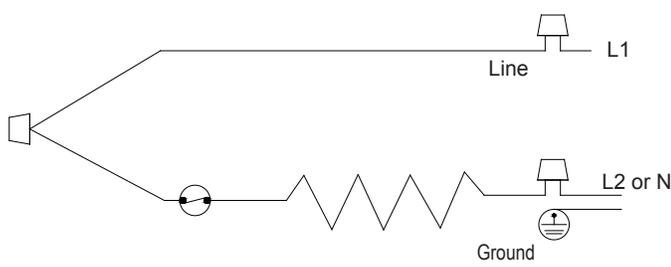
# Wiring Instructions

- ⚠ CAUTION:** Do not bypass or eliminate thermal cutout from the circuit.
- ⚠ CAUTION:** Check tightness of all electrical connections and wire nuts.
- ⚠ CAUTION:** Grounding connection is required.

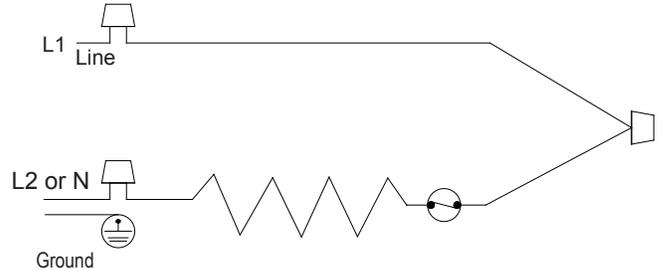
## FACTORY WIRING



### Right Side Power Connection

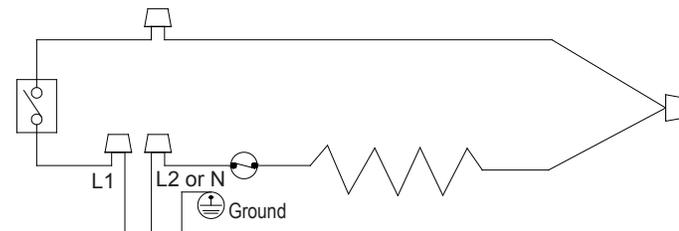


### Left Side Power Connection



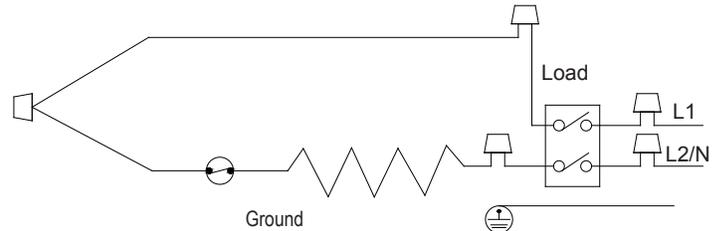
**! NOTE:** When control accessories are installed, use wiring diagram supplied with the accessory. Following are examples of wiring diagrams with thermostat.

### Single Pole Thermostat



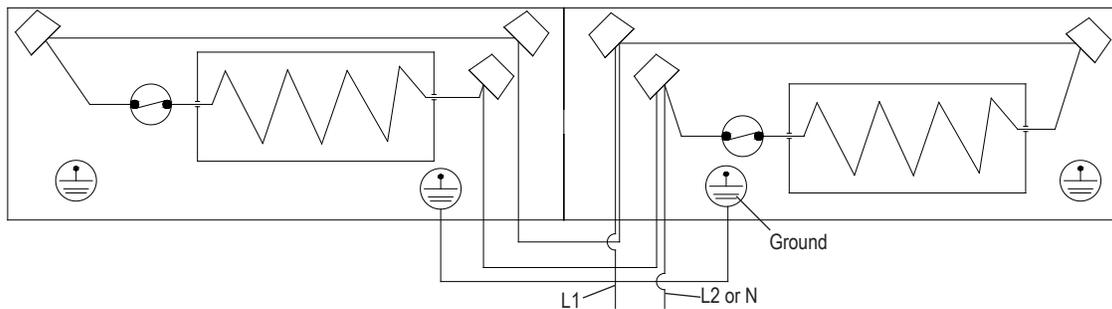
For right hand side connection use same logic.

### Double Pole Thermostat



For Left hand side connection use same logic.

### Connecting Multiple Linear Connectors Together



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In keeping with our policy of continuous product improvement, we reserve the right to make changes without notice.

