

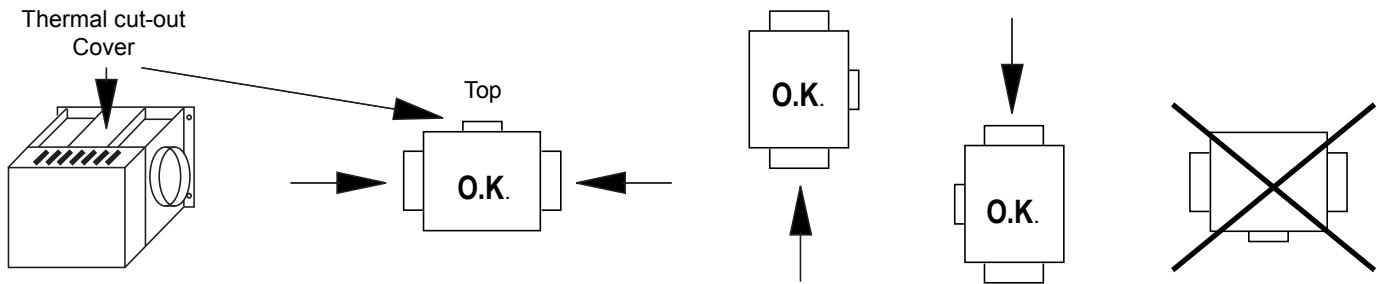


Installation Instructions for **THERMO-AIR** and **THERMO-ZONE** units.

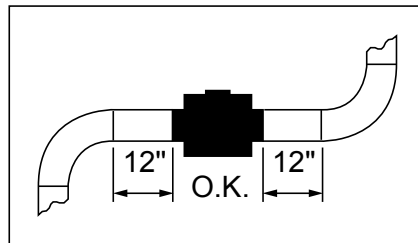
Please read instructions carefully before starting.

Mechanical Installation.

1- The air direction may be either vertical or horizontal, but when the unit is installed horizontally, the cut-out cover **must** be on top.



2- Do not install elbows closer than 12 inches to either the inlet or outlet of the unit.

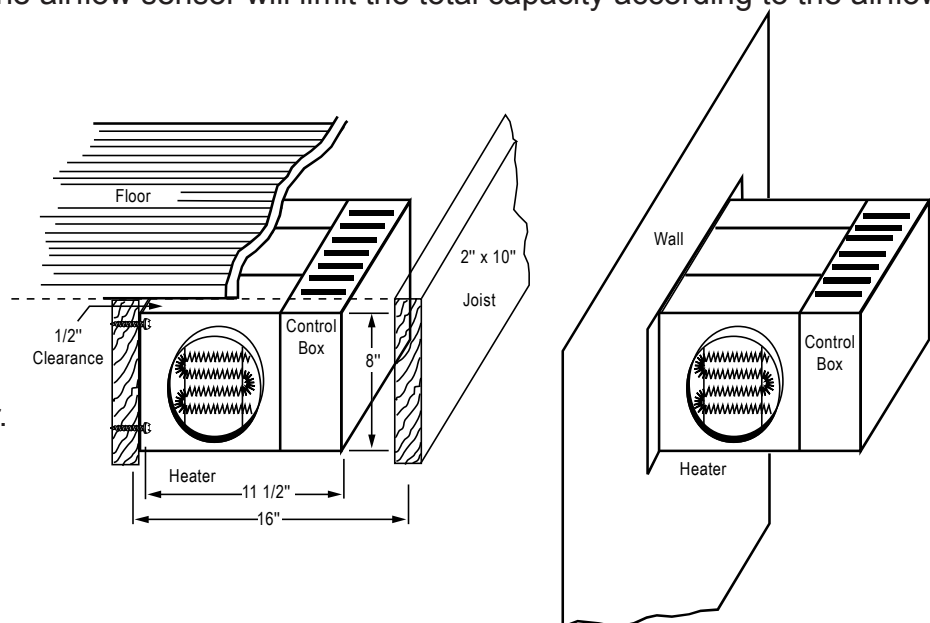


3- The electronic controller shuts down the heater when there is no air flow.

The minimum amount of air required (in cubic feet per minute) to operate the unit is given in the CFM column of the table (30 CFM per kilowatt).

If CFM is lower than specified, the airflow sensor will limit the total capacity according to the airflow available.

4- Attach the unit to a suitable support.
The 6" model is small enough to be located between standard 16" spaced floor joists.
Always allow a minimum 1/2" clearance above the heater.

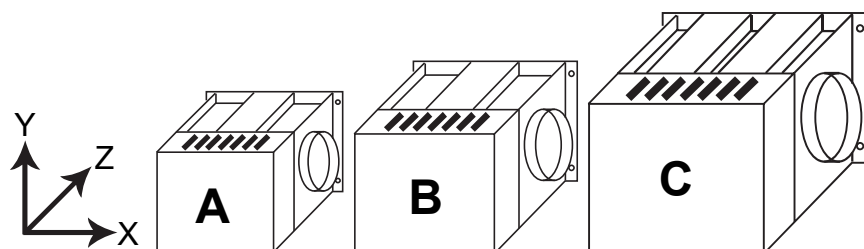


5- Electrical Installation.

Please conform to all local and national electrical codes for wiring. The heater should be supplied by a separate cable, of appropriate gauge and with appropriate protection.

Use wires suited for 75°C. Please refer to the following table Fig. 1.

| Fresh Air and Zone Heaters | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------|-------------------|--------------|----------|------|-------|-------|-------|---------------|-----|-----|
| Recommended wire gauge and protection | | | | | | | | | | |
| Models | | Collar | | Wire | | | | Min. Air Flow | | |
| <i>TERMO-AIR</i> | <i>TERMO-ZONE</i> | SIZE | Dia. | KW | Volts | Amps. | Gauge | Fuses | CFM | |
| TER-6-1120 | & | ZON-6-1120 | A | 6 | 1 | 120/1 | 8.3 | 12 | 15 | 30 |
| TER-6-1208 | & | ZON-6-1208 | A | 6 | 1 | 208/1 | 4.8 | 12 | 15 | 30 |
| TER-6-1240 | & | ZON-6-1240 | A | 6 | 1 | 240/1 | 4.2 | 12 | 15 | 30 |
| TER-6-2120 | & | ZON-6-2120 | A | 6 | 2 | 120/1 | 16.7 | 12 | 20 | 60 |
| TER-6-2208 | & | ZON-6-2208 | A | 6 | 2 | 208/1 | 9.6 | 12 | 15 | 60 |
| TER-6-2240 | & | ZON-6-2240 | A | 6 | 2 | 240/1 | 8.3 | 12 | 15 | 60 |
| TER-8-3208 | & | ZON-8-3208 | B | 8 | 3 | 208/1 | 14.4 | 12 | 20 | 90 |
| TER-8-3240 | & | ZON-8-3240 | B | 8 | 3 | 240/1 | 12.5 | 12 | 15 | 90 |
| TER-8-4208 | & | ZON-8-4208 | B | 8 | 4 | 208/1 | 19.2 | 10 | 30 | 120 |
| TER-8-4240 | & | ZON-8-4240 | B | 8 | 4 | 240/1 | 16.7 | 12 | 20 | 120 |
| TER-8-5208 | & | ZON-8-5208 | B | 8 | 5 | 208/1 | 24.0 | 10 | 30 | 150 |
| TER-8-5240 | & | ZON-8-5240 | B | 8 | 5 | 240/1 | 20.8 | 10 | 30 | 150 |
| TER-8-6240 | & | ZON-8-6240 | B | 8 | 6 | 240/1 | 25.0 | 10 | 40 | 180 |
| TER-10-3208 | & | ZON-10-3208 | C | 10 | 3 | 208/1 | 14.4 | 12 | 20 | 90 |
| TER-10-3240 | & | ZON-10-3240 | C | 10 | 3 | 240/1 | 12.5 | 12 | 15 | 90 |
| TER-10-4208 | & | ZON-10-4208 | C | 10 | 4 | 208/1 | 19.2 | 10 | 30 | 120 |
| TER-10-4240 | & | ZON-10-4240 | C | 10 | 4 | 240/1 | 16.7 | 12 | 20 | 120 |
| TER-10-5208 | & | ZON-10-5208 | C | 10 | 5 | 208/1 | 24.0 | 10 | 30 | 150 |
| TER-10-5240 | & | ZON-10-5240 | C | 10 | 5 | 240/1 | 20.8 | 10 | 30 | 150 |
| TER-10-6240 | & | ZON-10-6240 | C | 10 | 6 | 240/1 | 25.0 | 10 | 40 | 180 |
| TER-10-8240 | & | ZON-10-6240 | C | 10 | 8 | 240/1 | 33.3 | 8 | 50 | 240 |
| TER-10-10240 | & | ZON-10-10240 | C | 10 | 10 | 240/1 | 41.6 | 6 | 60 | 300 |
| TER-10-12240 | & | ZON-10-12240 | C | 10 | 11.5 | 240/1 | 47.9 | 6 | 60 | 345 |
| TER-12-6240 | & | ZON-12-6240 | C | 12 | 6 | 240/1 | 25.0 | 10 | 40 | 180 |
| TER-12-8240 | & | ZON-12-8240 | C | 12 | 8 | 240/1 | 33.3 | 8 | 50 | 240 |
| TER-12-10240 | & | ZON-12-10240 | C | 12 | 10 | 240/1 | 41.6 | 6 | 60 | 300 |
| TER-12-12240 | & | ZON-12-12240 | C | 12 | 11.5 | 240/1 | 47.9 | 6 | 60 | 345 |
| To convert <u>Cubic Feet per Minute</u> to <u>liters per second</u> , multiply the CFM value by 0.47 | | | | | | | | | | |



DIMENSIONS IN INCHES

| SIZE | X | Y | Z |
|------|------|------|------|
| A | 11.5 | 8.0 | 11.5 |
| B | 11.5 | 10.0 | 13.5 |
| C | 15.5 | 12.0 | 15.5 |

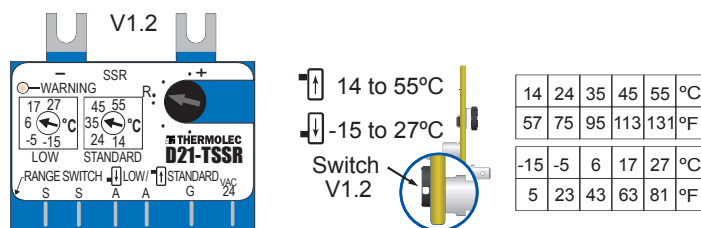
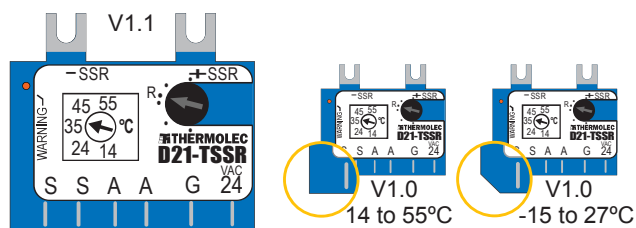
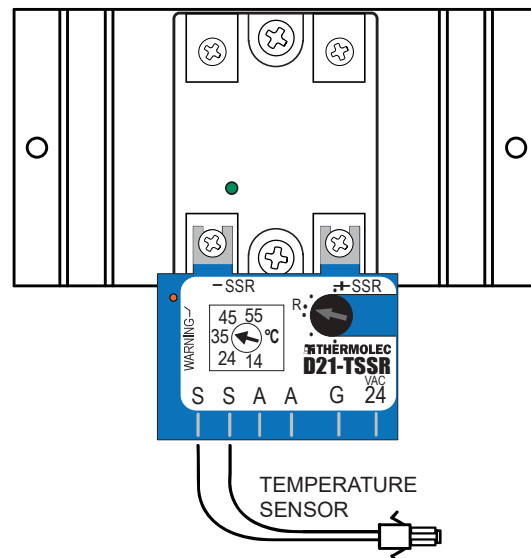
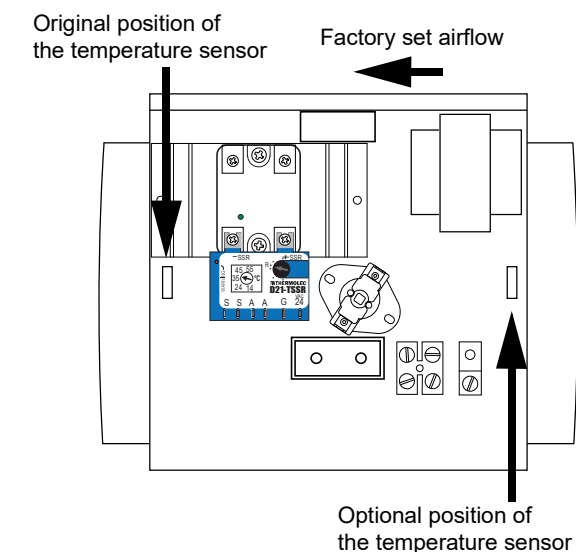
Note: Sizes are approximate and may change without notice

6- Special Instructions for each type of unit.

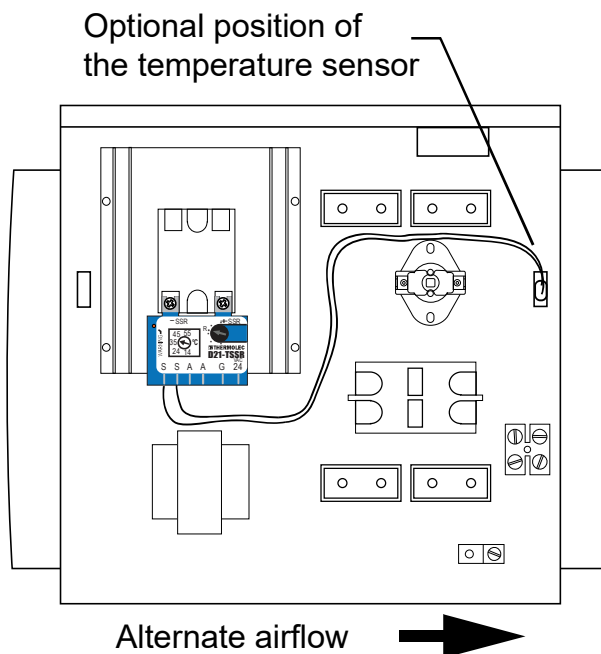
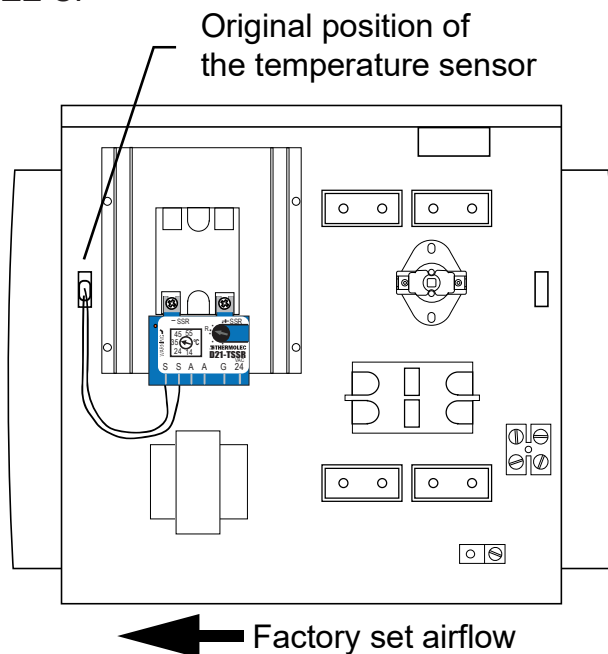
THERMO-AIR (TER models in Fig. 1)

When the unit is installed and connected, set the potentiometer on the controller to the desired temperature.

Please check the air direction carefully. The temperature sensor must be located on the air outlet side. The sensor is factory installed on the left side, so the air moves from the right to the left. It has to be moved to the right if the air outlet is on the right side. A pre-punched rectangular hole is provided on the right side to accommodate this change.



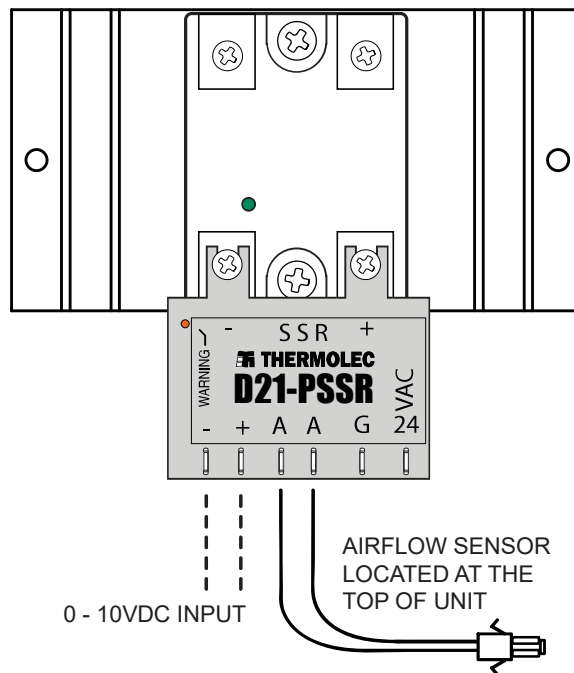
SIZE C:



THERMO-ZONE

(ZON models in Fig. 1)

The Thermo-Zone unit uses a different controller which works with a 0-10VDC Thermostat. Connect the thermostat wires as indicated in the wiring diagram.



If you don't find the exact model you need in the table, please order a standard Thermolec heater equipped with SCR control.

Remember: In case of trouble or for technical assistance, please use our free Help Line:

1-800-336-9130

THERMOLEC *Limited Warranty*

1 - THERMOLEC LTD guarantees its heater resistance elements against any defects for a period of two years and other built-in components for a period of one year, starting from the date of shipment from its factory. This warranty is limited to equipment and components supplied by THERMOLEC LTD.

2 - Improper installation, misuse of this product, or repairs made by others without THERMOLEC LTD's authorization, will void this warranty.

3 - THERMOLEC LTD will repair or replace without charge, in its factory or in the field at its own discretion, the heater or part, which upon manufacturer examination, is considered to be defective.

4 - THERMOLEC LTD shall not be held responsible for damage or delay and shall not be held liable for any charges resulting from the removal or replacement of the allegedly defective heater.

5 - THERMOLEC LTD shall not be held responsible for any incidental or consequential damage or delay due to workmanship or material. No additional charge will be accepted for repair, replacement or modification if prior written authorization was not obtained from THERMOLEC LTD

6 - Any control device or accessory, supplied with the heater, to be mounted or connected remotely, will only be guaranteed by the manufacturer per conditions stated in paragraph 5.

7 - Components supplied for repairs are guaranteed for the balance of the original warranty or 90 days, whichever is longer.

8 - All repairs made at THERMOLEC LTD's factory after the warranty period, is guaranteed for 30 days from the date of the repair.