

Job Name: _____

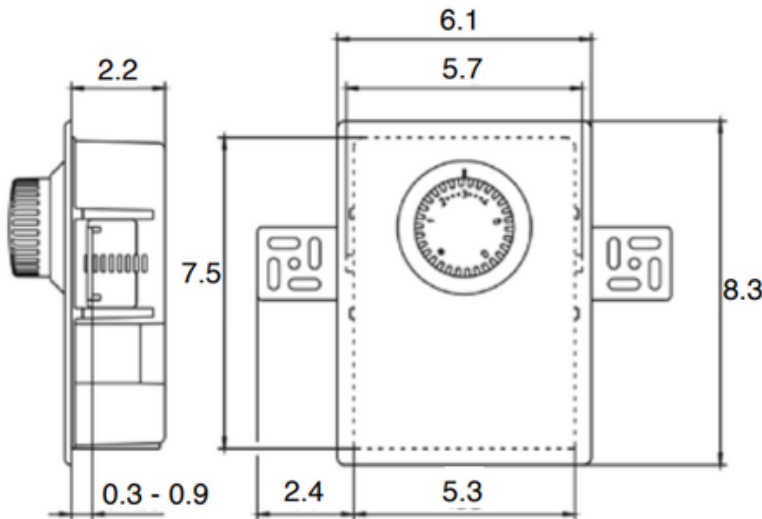
Submitted by: _____ Date: _____

Spec Section: _____

Job Location: _____

Engineer/Architect: _____

Approval: _____ Date: _____



Dimensions in inches

Thermostat temperature dial

- 0 = Complete isolation
- * = About 44°C frost protection
- 1 = About 53°F
- 2 = About 60°F
- 3 = About 68°C
- 4 = About 76°C
- 5 = About 82°C

Return Hot Water Temperature Limiter Dial

- 0 = Valve closed
- 10 = Frost protection
- 20 = About 68 °F
- 25 = About 77 °F
- 30 = About 86 °F
- 35 = About 95 °F
- 40 = About 104 °F

Product Description:

The "Unibox E Plus" is a non-electric radiant floor thermostat and return water temperature limiter. The "Unibox E Plus" is a wall box unit with presettable thermostatic valve and integrated return temperature limiter, venting and flushing valve and cover plate, thermostat with "0" setting, and a connection for Oventrop "euroconus" compression fittings.

The "Unibox E Plus" requires no auxiliary energy. The "Unibox E plus" allows the individual room temperature control with a thermostat and with temperature limitation of the heated surfaces with a return temperature limiter. Installation may be carried out in combination with radiator heating and a maximum design water temperature of 158 °F. The "Unibox E plus" can be operated without an additional radiator, provided the heat design output of the surface heating system is sufficient.

Specifications

Item no.: 102 26 33
 White cover, powder white thermostat.
 Maximum working pressure: 150 psi.
 Maximum differential pressure: 14 psi.
 Room temperature control range: 44 °F to 82 °F.
 Control temperature limiter range: 68 to 104 °F.
 Graduation on control cap 0 to 40. The figures indicate the maximum return temperatures in Celcius.
 Depth: 2.2 inches



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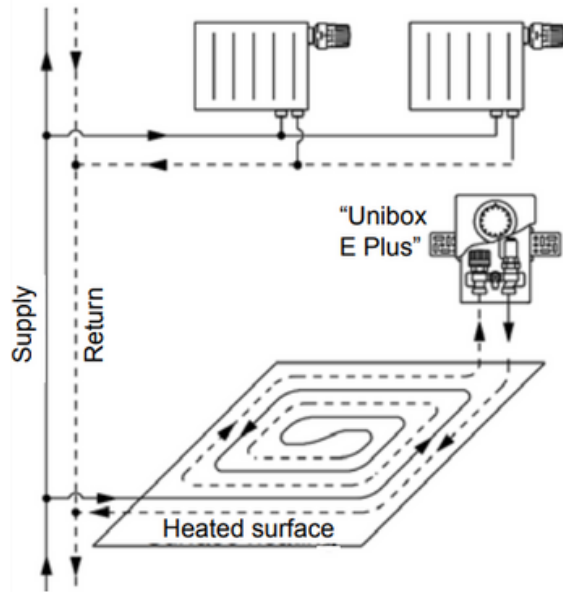
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Function

The "Unibox E Plus" serves as a thermostat and also to limit the return water temperature flowing through radiant floor tubing. The "Unibox E Plus" should be installed in such a position that the heating medium passes through the heating circuit first and then through the valve. The hot water medium cools down after the heated fluid is passed through the floor tubing. The flow through the "Unibox E Plus" is automatically controlled by a capillary tube thermostat and a sensor element in contact with the heating fluid. The return temperature limit is set at the hand wheel. Please observe guidelines regarding heating up and initial operation. The temperature of the surface heating can be adjusted by turning the hand wheel. Normally, the "Unibox E Plus" is used to control radiant floor heating in a room with an additional radiator. The "Unibox E Plus" can be operated without an additional radiator, provided the design output of the surface heating is sufficient for the room.



Direct flow from supply pipe to the radiant tubing in the floor first, then return through "Unibox E Plus" before piping to the return.

Recommended Application

- Rooms and heating surfaces up to 250 ft²
- Loop circuit with a pipe length up to 300 ft. (pipe size 1/2")
- The recommended temperature range of the return temperature limiter is between 77 to 104 °F
- The maximum permissible concrete temperature near the heating pipes may not exceed 131 °F for concrete, 113 °F for mastic asphalt concrete, or according to the instructions of the underfloor manufacturer.