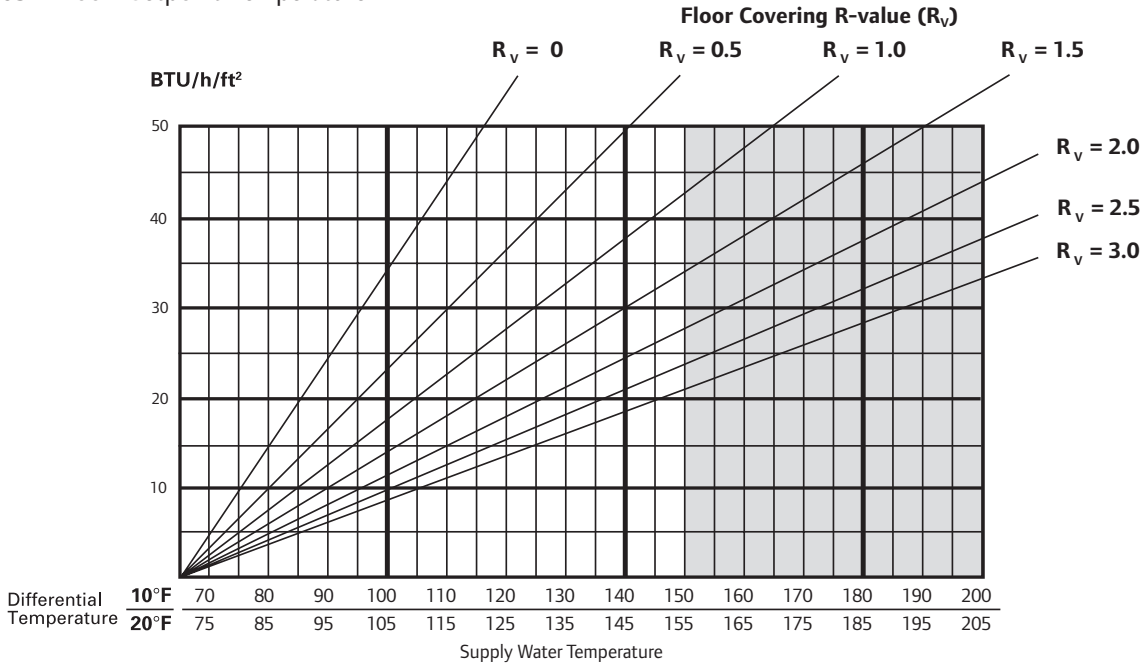


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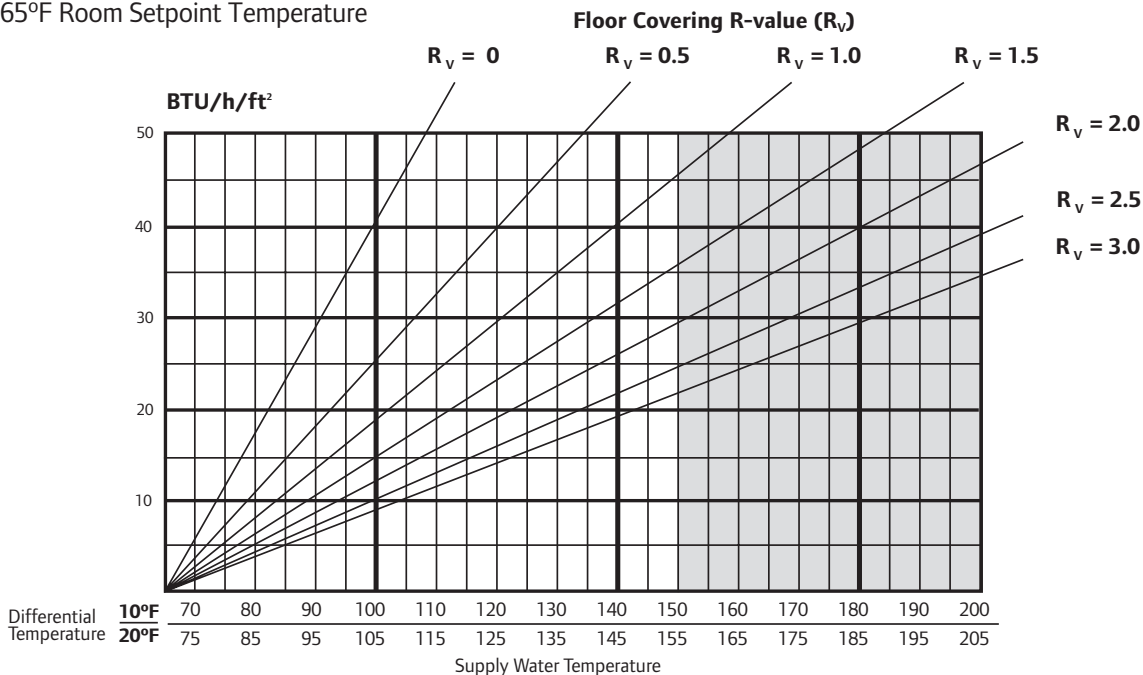
Supply Water Temperature Charts

Concrete — 4" Slab (12" on center)
65°F Room Setpoint Temperature



Note: Uponor’s recommended maximum fluid temperature for all concrete applications is 150°F, in accordance with the Uniform Building Code (UBC). This data assumes negligible downward loss in accordance with good insulation practices.

Concrete — 4" Slab (9" on center)
65°F Room Setpoint Temperature



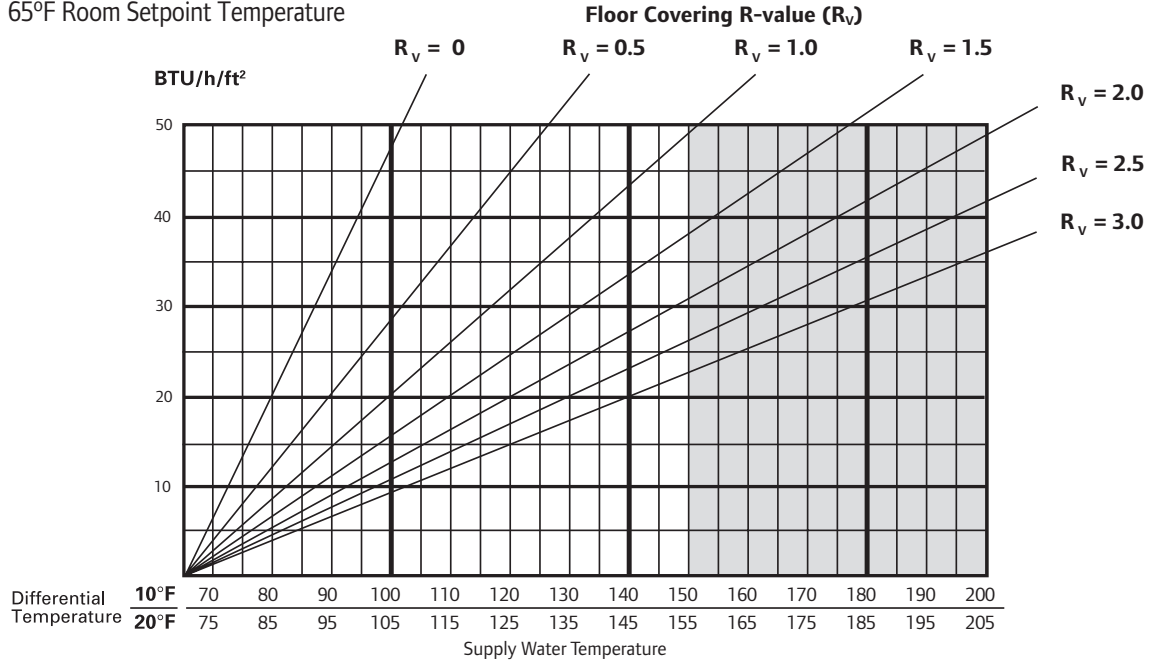
Note: Uponor’s recommended maximum fluid temperature for all concrete applications is 150°F, in accordance with the UBC. This data assumes negligible downward loss in accordance with good insulation practices.

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Supply Water Temperature Charts

Concrete — 4" Slab (6" on center)

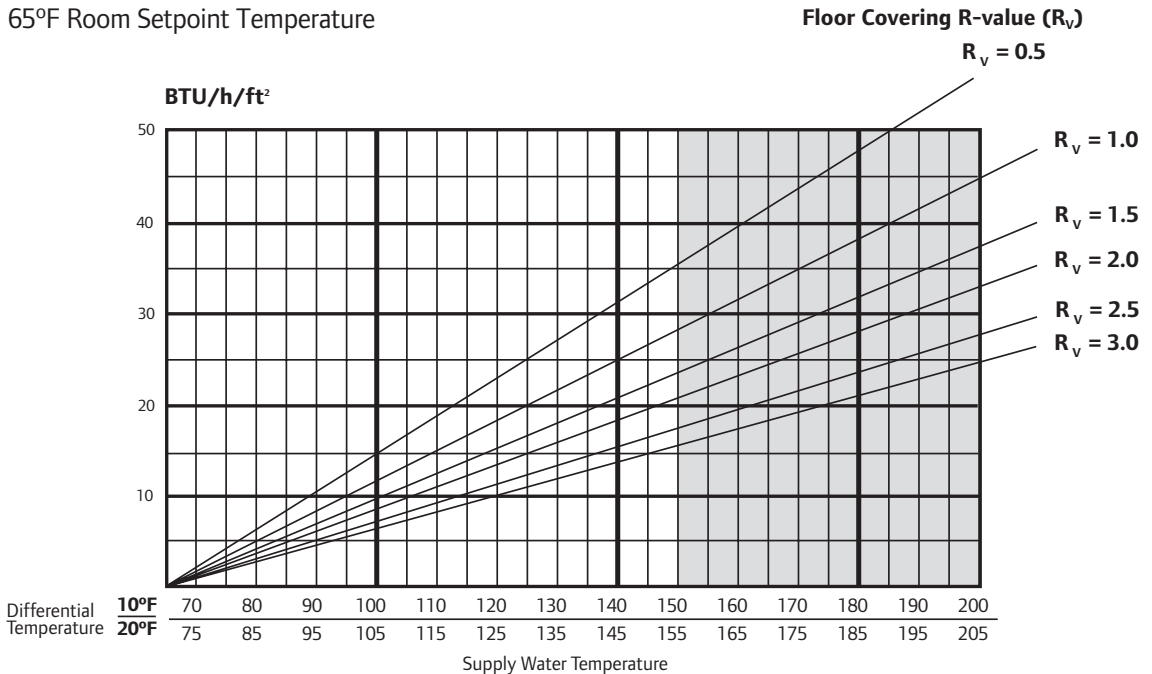
65°F Room Setpoint Temperature



Note: Uponor's recommended maximum fluid temperature for all concrete applications is 150°F, in accordance with the UBC. This data assumes negligible downward loss in accordance with good insulation practices.

1½" Poured Floor Underlayment (12" on center)

65°F Room Setpoint Temperature

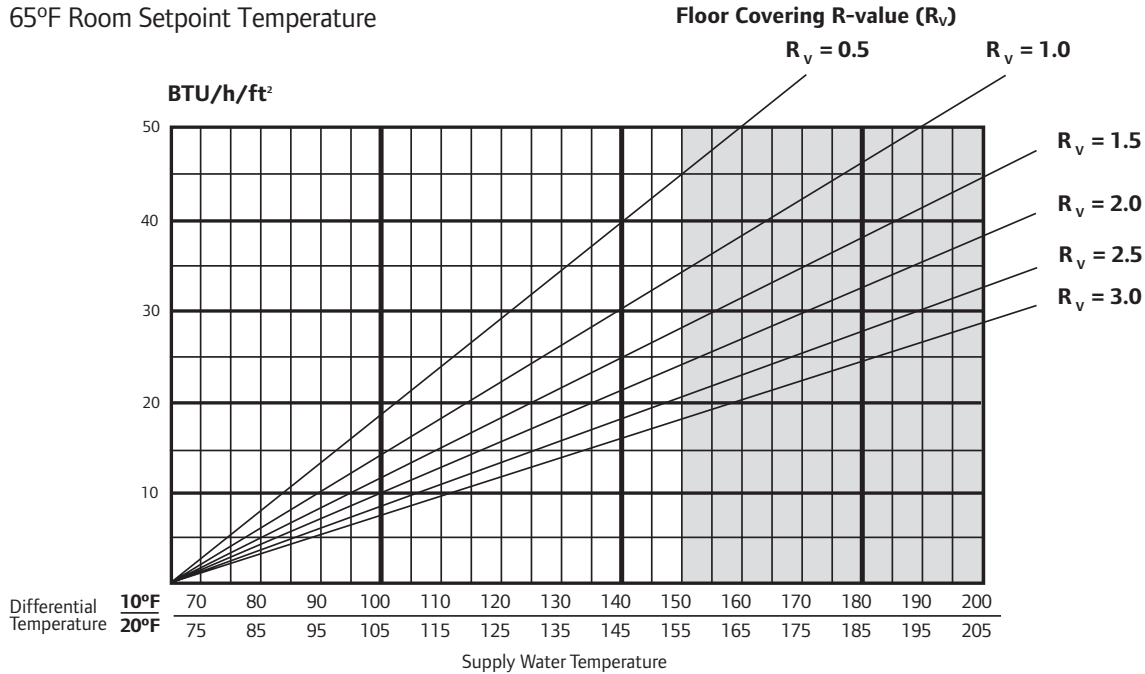


Note: Uponor's recommended maximum fluid temperature for all concrete applications is 150°F, in accordance with the UBC. Consult underlayment manufacturer's recommended temperature limitations. This data assumes negligible downward loss in accordance with good insulation practices.

Appendix E

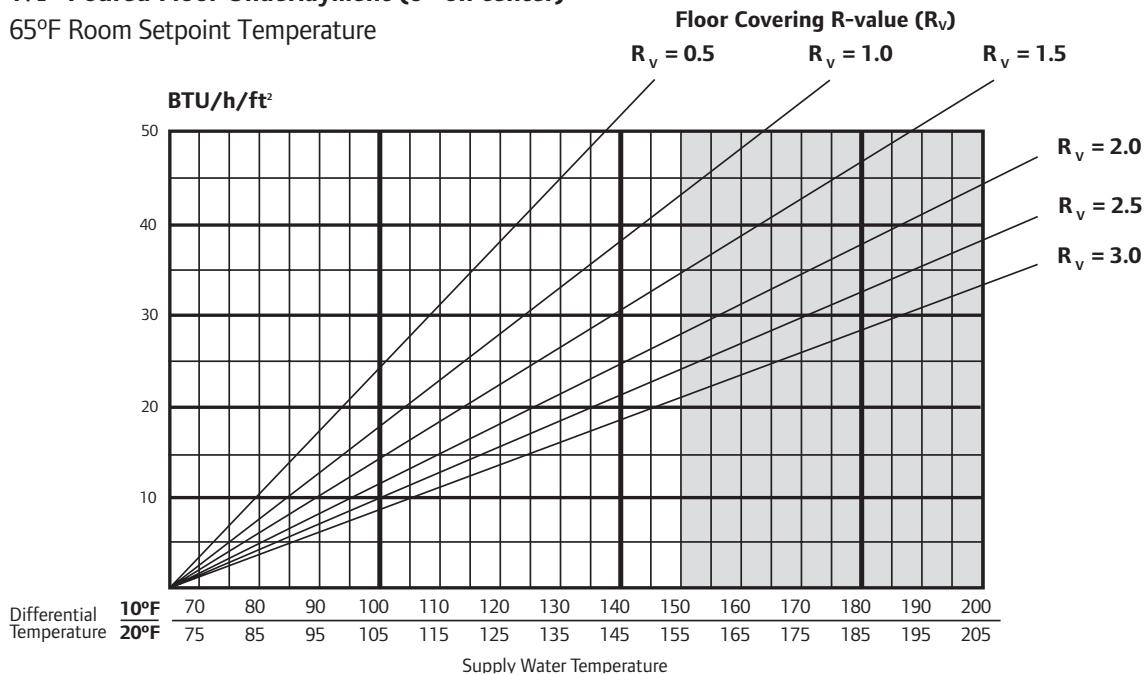
Supply Water Temperature Charts

1½" Poured Floor Underlayment (9" on center)
65°F Room Setpoint Temperature



Note: Uponor’s recommended maximum fluid temperature for all concrete applications is 150°F, in accordance with the UBC. Consult underlayment manufacturer’s recommended temperature limitations. This data assumes negligible downward loss in accordance with good insulation practices.

1½" Poured Floor Underlayment (6" on center)
65°F Room Setpoint Temperature



Note: Uponor’s recommended maximum fluid temperature for all concrete applications is 150°F, in accordance with the UBC. Consult underlayment manufacturer’s recommended temperature limitations. This data assumes negligible downward loss in accordance with good insulation practices.

Appendix E

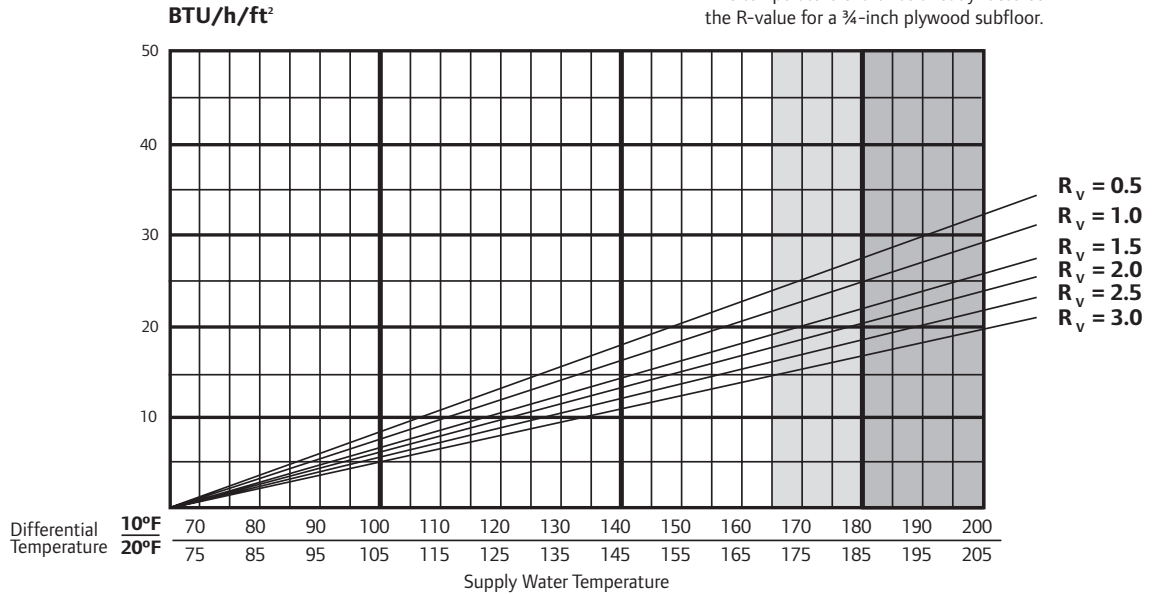
Supply Water Temperature Charts

Joist Heating — No Plates (8" on center)

65°F Room Setpoint Temperature

Floor Covering R-value (R_v)

This temperature chart has already factored in the R-value for a 3/4-inch plywood subfloor.



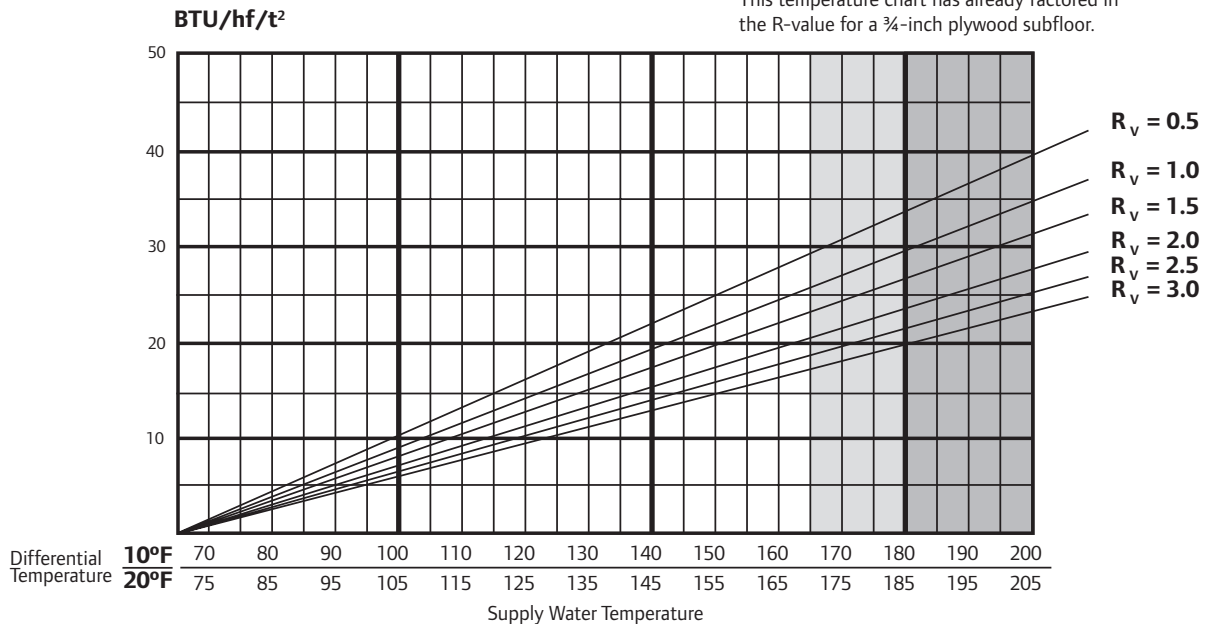
Note: The maximum fluid temperature for all joist applications is 180°F. Uponor’s recommended maximum design temperature is 165°F. This data assumes negligible downward loss in accordance with good insulation practices.

Joist Heating — Double-groove Aluminum Plates (8" on center)

65°F Room Setpoint Temperature

Floor Covering R-value (R_v)

This temperature chart has already factored in the R-value for a 3/4-inch plywood subfloor.



Note: The maximum fluid temperature for all joist applications is 180°F. Uponor’s recommended maximum design temperature is 165°F. This data assumes negligible downward loss in accordance with good insulation practices.

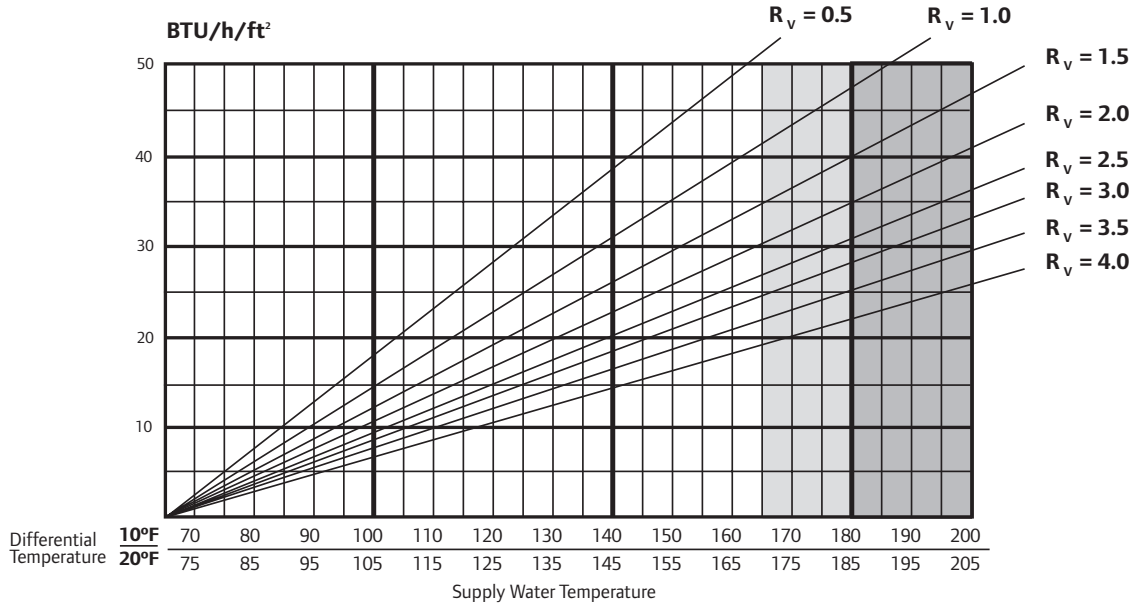
Appendix E

Supply Water Temperature Charts

Joist Heating — Joist Trak™ (8" on center)

65°F Room Setpoint Temperature

Floor Covering R-value (R_v)
 This temperature chart has already factored in the R-value for a ¾-inch plywood subfloor.

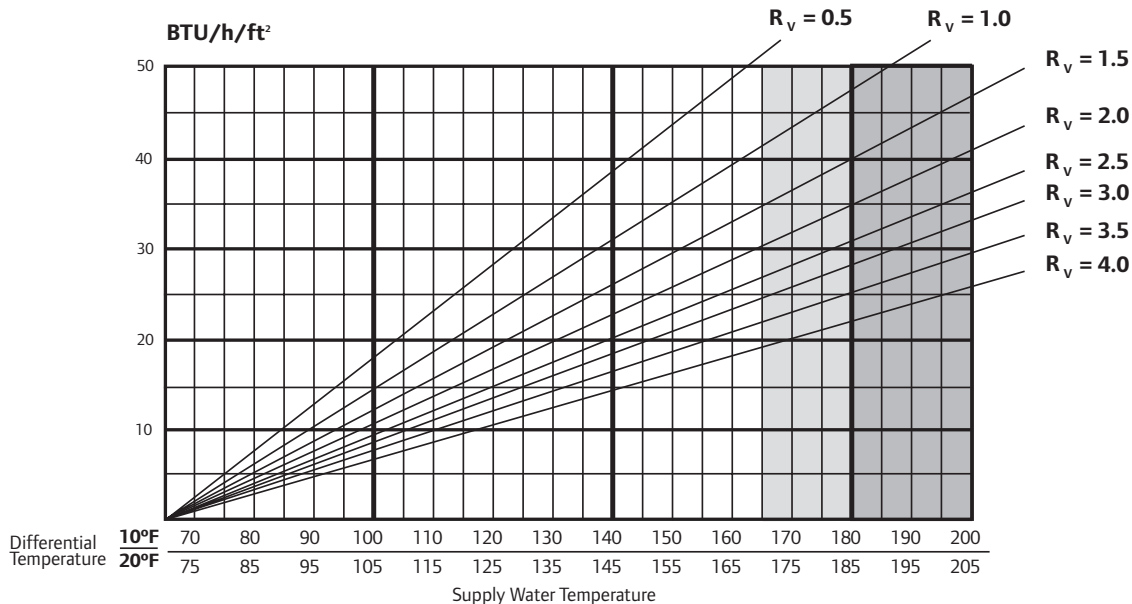


Note: The maximum fluid temperature for all joist applications is 180°F. Uponor’s recommended maximum design temperature is 165°F. This data assumes negligible downward loss in accordance with good insulation practices.

Radiant Ceiling — Joist Trak (8" on center)

65°F Room Setpoint Temperature

Floor Covering R-value (R_v)
 This temperature chart has already factored in the R-value for a ¾-inch plywood subfloor.

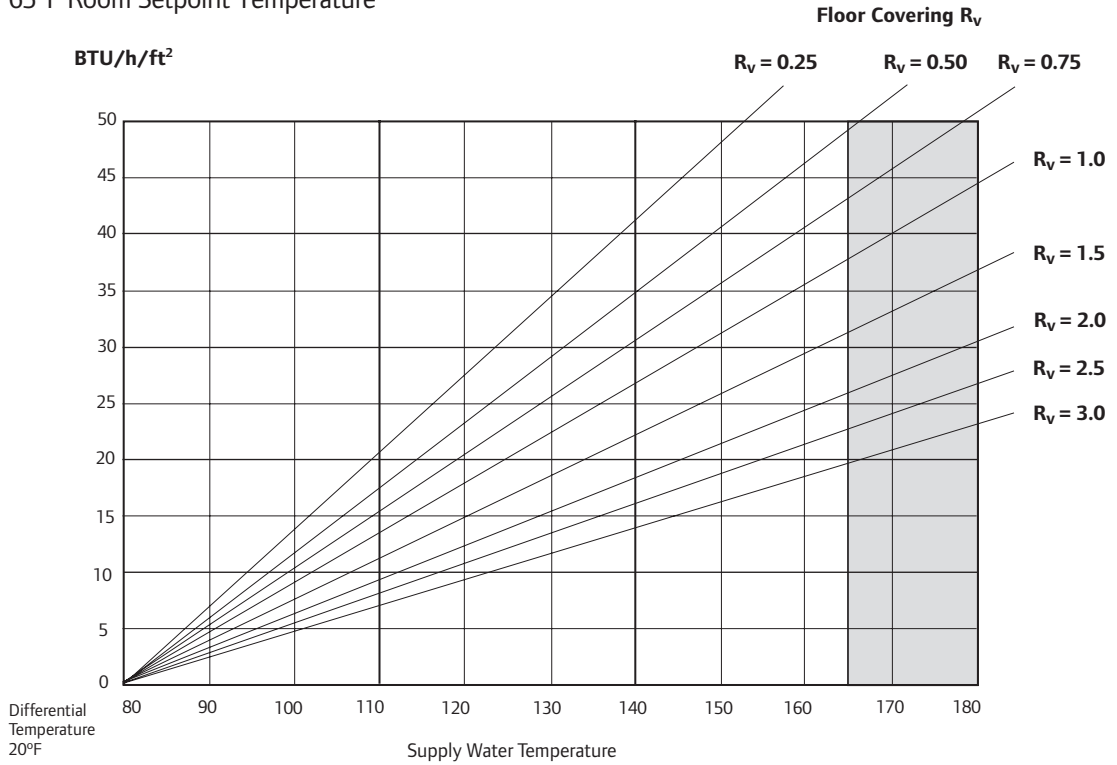


Note: The maximum fluid temperature for all joist applications is 180°F. Uponor’s recommended maximum design temperature is 165°F. This data assumes negligible downward loss in accordance with good insulation practices.

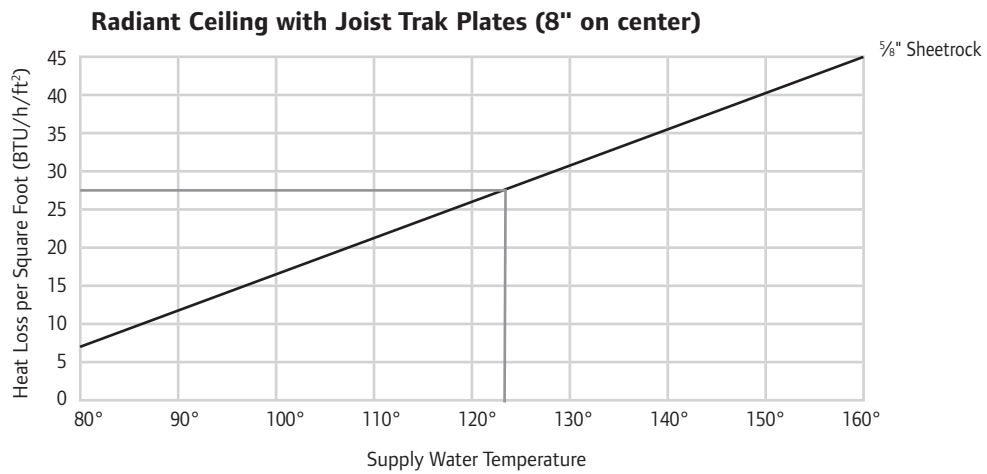
Appendix E

Supply Water Temperature Charts

Quik Trak® Radiant Floor (7" on center)
65°F Room Setpoint Temperature



Note: Uponor's recommended maximum design temperature is 165°F.

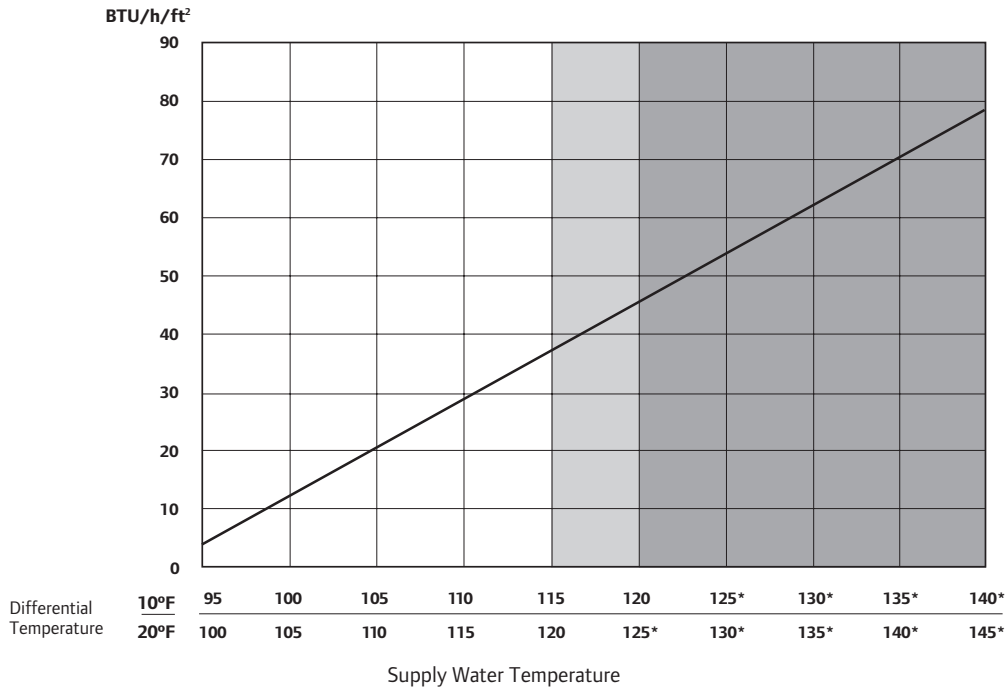


Appendix E

Supply Water Temperature Charts

Radiant Ceiling with Single-groove Aluminum Plates (12" on center)

70°F Room Setpoint Temperature



*Exceeds maximum supply temperature of 120°F for Uponor radiant ceiling applications.

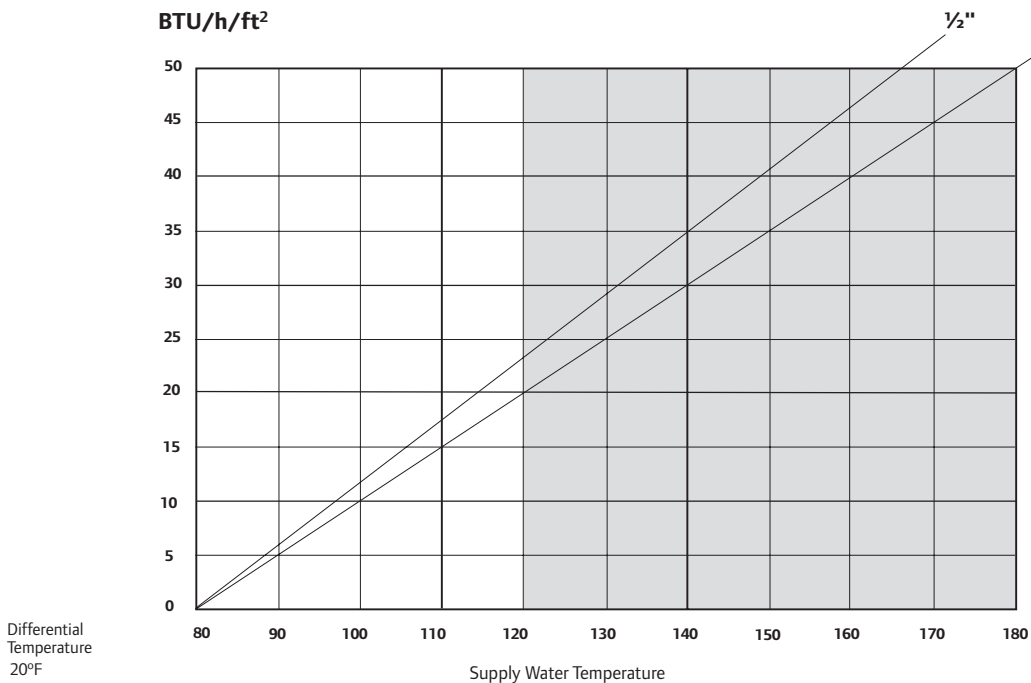
Exceeds supply water temperature at 10°F supply/return differential temperature

Exceeds supply water temperature at 20°F supply/return differential temperature

This chart is based on installations using single-groove aluminum heat-emission plates installed at 12 inches on center with ½" gypsum sheetrock. This chart is applicable for ceiling heights up to 12 feet.

Quik Trak Radiant Wall (7" on center)

70°F Room Setpoint Temperature



Exceeds supply water temperature at 20°F supply/return differential temperature

Notes:

- Chart lines represent ½" and ⅝" sheetrock.
- Do not exceed 120°F supply water temperature under gypsum sheetrock.

