

Model Type ThermoTouch

Detailed Specifications

General:

Provide Runtal ThermoTouch radiation of the lengths and in locations as indicated, and of capacities, style and having accessories as scheduled. The ThermoTouch radiation shall be of one-piece all-welded steel construction, consisting of active flattened hot water heating tubes welded to headers at each end, plus a front set of inactive tubes for added thermal protection, with a total depth of no more than 2-3/4". The ThermoTouch radiator shall include an integral heavy gauge (0.09" minimum) all-welded perforated flat top grille which covers the entire radiator from the front inactive tubes to within 1/4" of the wall.

ThermoTouch models to have steel corrugated fins welded to both sides of the active water tubes to increase the convective output of the unit. There shall be no less than 32 fins per foot. Fins shall start within 1" of the headers, and shall be spot-welded three times per tube.

The headers shall include all necessary inlet, outlet and vent connections as required. Standard connection sizes are 1/2" NPT tapered thread for supply and return piping, and 1/8" for the vent connection. Internal baffling is provided where required for proper water flow.

ThermoTouch panels shall be available in lengths from 2'-0" to 29'-6" in six inch increments without the need for splicing. The panel radiation shall be capable of being mounted to typical stud wall construction without additional blocking or strapping. Appropriate wall mounting brackets shall be provided with the radiation.

Pressure ratings for the radiation shall be as follows:

STANDARD: Working pressure-56 PSI maximum, Test Pressure-74 PSI maximum

OR

MEDIUM: Working pressure-85 PSI maximum, Test Pressure-110 PSI maximum

OR

HIGH: Working pressure-128 PSI maximum, Test Pressure 184 PSI maximum

ThermoTouch expansion shall not exceed 1/64" per foot of radiation at 215°F. The installer shall provide adequate expansion compensation for each radiator.

ThermoTouch radiation shall be cleaned and phosphatized in preparation for the powder coat finish. The radiation is then finish painted with a gloss powder coat finish, for a total paint thickness of 2-3 mils (0.002" - 0.003"). The color shall be selected from the Runtal's standard colors, or optional colors shall be available at an additional cost.

ThermoTouch trim covers shall be furnished with the radiation to provide a finished installation.

Manufacturer:

ThermoTouch radiation shall be manufactured in the USA by Runtal North America, Inc.

Warranty:

All ThermoTouch radiators will have a five year standard limited warranty.

OPTIONAL ITEMS WHICH MAY BE ADDED TO THE SPECIFICATION:

The radiation manufacturer shall provide combination shutoff valve/union fitting of less than two

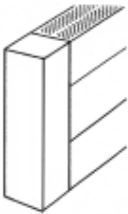
inches in width for the supply and return to each panel radiator, to be field installed by others.

Runtal-Flex connectors shall be used where appropriate to provide expansion compensation for the radiators.

ThermoTouch



SPECIFICATIONS



TT-3

Runtal ThermoTouch® (TT) panel radiators are designed for low surface temperature applications such as schools and hospitals. The panels are finished in a gloss powdercoat, and are available in many standard colors and over 100 optional colors. These panels are made in lengths from 2'-0" to 29'-6", and heights from 6" to 12". Standard piping connections are 1/2" NPT for inlet and outlet piping, and 1/8" NPT for vents (3/4" NPT inlets and outlets are available by special order). For more complete TT specifications, please refer to the Runtal technical pages.

BTUH/FT RATINGS

Energy efficient as well as space saving, TT panels are both radiant and convective. These panels provide more comfort at a lower room temperature than convective heaters. Various average water temperatures (AWT) are shown here for convenience, but for more specific conditions use the appropriate correction factor with the 215°F rating. Please see the technical pages for the correction factor best suited to the design conditions.

BTUH/ft Ratings @ 65°F EAT					
MODEL	HEIGHT inches	DEPTH inches	215°F	180°F	140°F
TT-2	6.0	3.3	870	610	349
TT-3	9.0	3.3	1120	784	451
TT-4	12.0	3.3	1360	952	544

MOUNTING SYSTEMS



TT-3

Wall mounting with a continuous mounting system (brackets included) is standard on all TT panels. Please see the TT technical pages for more complete mounting details.