



Architect: Jeremiah Eck

The Hydronic Residential Line

Baseboards, Wall Panels, Vertical Panels, Column Radiators,
Specialty Radiators & Towel Radiators

For Hot Water Heating Systems





The Runtal Experience:

Simply the Finest Radiators

Comfort: Runtal's Comfort is Unsurpassed

When it comes to making a house a home, there is no substitute for the comfort and convenience of Runtal Radiators. Runtal provides an exceptionally quiet blanket of radiant warmth with no drafts, cold spots, or dry air. Runtal provides easy to clean panels that hospitals have come to rely on, with durability to outlast even the most energetic wall bangers: from toddlers to teenagers. Runtal, because your family deserves to be comfortable and healthy the year round.

Style: Runtal Offers Styles to Meet Any Design Criteria

Finally, a heating system which can blend into a traditional décor, highlight an ultra modern design, or accent any style in between. From baseboard style, to wall panels, to fancy curves and dramatic room dividers, Runtal manufactures the perfect welded steel radiator for every application. Since Runtal manufactures an almost unlimited selection of sizes, colors, and heat outputs, Runtal is truly a designer's dream. Innovation in architectural detail is no longer held hostage to "old rules" of mechanical heating systems. Imagine the possibilities, confident that the final design will be comfortable and stylish. You'll be proud to display Runtal in your home.

Economy: Runtal Affords Significantly Increased Heat Transfer

Americans have long been accustomed to relatively inexpensive fuel. This situation has created an environment in which the "cost" of a heating system is usually only considered as the initial purchase and installation. However, as fuel costs, indoor pollutants, and system maintenance costs continue to increase, Americans are becoming increasingly concerned with the true cost of a comfortable indoor environment. Runtal's unique flattened tube design, combined with a rugged all welded steel construction allows for significantly increased heat transfer. In addition, a well designed Runtal system allows for a smaller boiler and pump, and usually less piping. All this adds up to a "green", comfortable, attractive, and efficient heating system for surprisingly little more than the old fashioned kind.

Quality: Runtal Radiators are the Benchmark of High Quality Panel Radiators

Founded over sixty years ago in Switzerland, Runtal invented the panel radiator. For the past thirty years operating a state-of-the-art factory in Massachusetts, Runtal has made a commitment to serve the U.S. and Canadian markets. All products are designed to meet American building requirements and carry a limited five-year warranty. Runtal is absolutely the best hot water radiator in the world. It's never too late to start being comfortable. So, add some Runtal quality to your life today.



Runtal Radiators can be seamlessly integrated into your home's design adding warmth, comfort and convenience.

Runtal Hydronic Radiator Design Offerings

Runtal Radiators offer the homeowner a myriad of design opportunities which may be integrated into any environment. They can be long and low along the floor or high and narrow for maximum output and space savings. They can run vertically at tight corners or curved under windows. Runtal Radiators are available in a variety of styles for towel racks, coat hangers and elegant room dividers and will enhance any room design: period or modern. The following pages catalog the Runtal offerings. Runtal specializes in “made to order” products which take about four weeks to manufacture as well as maintaining an expansive offering of stock products that are available for immediate delivery.



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Baseboard Radiators



Runtal's Baseboard style is ideal for those desiring a low profile. As a retrofit, Runtal baseboard is a natural replacement for fin-tube or cast iron. In these cases, it is often easiest to use the existing pipe and simply order the appropriate length. Depending upon the heat output, or the desired design "look", Runtal will supply baseboard styles ranging from 1 to 4 tubes high.



With Fins*

| Model No. | VLX 7/7 | VLX 14/14 | VLX 21/21 | VLX 28/28 |
|-----------------|---------|-----------|-----------|-----------|
| Height | 2.8" | 5.8" | 8.6" | 11.5" |
| Depth | 2" | 2" | 2" | 2" |
| BTUH/ft. | | | | |
| Output @ 180°F: | 380 | 610 | 790 | 950 |



No Fins*

| Model No. | VX 7 | VX 14 | VX 21 | VX 28 |
|-----------------|------|-------|-------|--------|
| Height | 2.8" | 5.8" | 8.6" | 11.15" |
| Depth | 2" | 2" | 2" | 2" |
| BTUH/ft. | | | | |
| Output @ 180°F: | 160 | 290 | 430 | 570 |

Available in lengths from 20 to 354 inches (in 2" increments).

*Runtal baseboards are offered with and without fins. When hung, visually they look similar. Finned units offer a higher convective component and as a result nearly double the output of comparable non-finned units.



In Stock Baseboard UF Series



Runtal offers 2, 3 and 4 panels high baseboards in white for immediate delivery in 2', 2.5', 3', 3.5', and from 4'-14' in even foot increments. All stock baseboards have multiple tappings (AB) that allow for all types of bottom and side piping connections (See piping configuration AB on page 13, Table 3). Stock baseboards may be special ordered in any of the other nine standard colors with a two-week delivery.



Wall Panels



Runtal's Wall Panel style radiators are ideal for placement under windows or on walls where floor space is at a premium. When placed under windows, wall panels help eliminate cold spots and drafts while allowing curtains to hang to the floor. Wall panel radiators are available in a variety of heights and widths to suit most any need.



With Fins*

| Model No. | VLX 35/35 | VLX 42/42 | VLX49/49 | VLX 56/56 | VLX 63/56 | VLX 70/56 |
|-----------------|-----------|-----------|----------|-----------|-----------|-----------|
| Height | 14.4" | 17.2" | 20.2" | 23.1" | 26.1" | 29.0" |
| Depth | 2" | 2" | 2" | 2" | 2" | 2" |
| BTUH/ft. | | | | | | |
| Output @ 180°F: | 1260 | 1460 | 1650 | 1840 | 1950 | 2050 |

No Fins*

| Model No. | VX 35 | VX 42 | VX 49 | VX 56 | VX 63 | VX 70 |
|-----------------|-------|-------|-------|-------|-------|-------|
| Height | 14.4" | 17.2" | 20.2" | 23.1" | 26.1" | 29.0" |
| Depth | 2" | 2" | 2" | 2" | 2" | 2" |
| BTUH/ft. | | | | | | |
| Output @ 180°F: | 710 | 860 | 1010 | 1150 | 1300 | 1450 |

Available in lengths from 20 to 354 inches (in 2" increments).

Additional heights (up to 24 tubes high or 69-3/4") available upon request.

*Runtal wall panels are offered with and without fins. When hung, visually they look similar. Finned units offer a higher convective component and as a result nearly double the output of comparable non-finned units.



In Stock Wall Panels UF Series



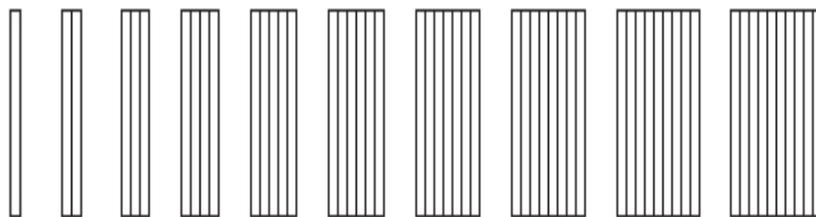
Runtal offers 2 wall panels (6 and 8 panels) in 2', 3', 4' and 6' lengths in stock in white for immediate delivery. All stock wall panels have multiple tappings (AB) that allow for all types of bottom and side piping connections (See piping configuration AB on page 13, Table 3). Stock wall panels may be special ordered in any of the other nine standard colors with a two-week delivery.



Vertical Panels



Runtal's Vertical Panels are ideal for situations where floor space is limited such as entryways and kitchens. They are often found mounted behind a door or on a column.



| Model No. | HX7 | HX14 | HX21 | HX28 | HX35 | HX42 | HX49 | HX56 | HX63 | HX70 |
|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Width | 2.8" | 5.8" | 8.6" | 11.5" | 14.4" | 17.2" | 20.2" | 23.1" | 26.1" | 29.0" |
| Depth | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" |
| BTUH/ft. height | | | | | | | | | | |
| Output @ 180°F: | 140 | 280 | 420 | 560 | 700 | 840 | 980 | 1120 | 1260 | 1400 |

Available in heights from 20 to 354 inches (in 2" increments).
Additional widths (up to 24 tubes or 69-3/4" wide) are available upon request.



In Stock Vertical Panels UHX Series



Runtal offers vertical panels (4, 6 and 8 panels wide) in 3' and 6' heights for immediate delivery in white. All stock vertical panels have bottom tappings allowing flexibility of supply and return. Stock vertical panels may be special ordered in any of the other nine standard colors with a two-week delivery.

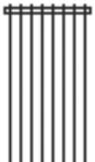
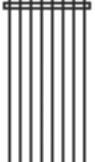
* UHX-8 (8 panels wide) not shown.



Column Radiators



Runtal's Column Radiators are an ideal solution where the view in is as important as the view out. Where the design calls for floor to ceiling glass, column radiators may be pedestal mounted in front of the glass without obstructing the view. Column radiators may also be used as room dividers or balustrade. They may be either wall mounted or pedestal mounted both on the bottom as well as the top of the radiator.

| | | | | | | |
|------------------------|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| Model No. | R1040-2 | R1060-2 | R1075-2 | R1090-2 | R1200-2 | R1215-2 |
| Height | 15.9" | 23.6" | 29.5" | 35.6" | 78.8" | 84.6" |
| Depth | 4" | 4" | 4" | 4" | 4" | 4" |
| BTUH/ft. | | | | | | |
| Output @ 180°F: | 960 | 1320 | 1620 | 1860 | 4380 | 4740 |

Available in lengths from 6 to 240 inches (in 2" increments).





Towel Radiators

Runtal Towel Radiators are both decorative heaters and towel warmers. The “missing tube” design and hidden mounting allow for a wide variety of uses. Whether you need to heat an entire room, dry laundry or simply relax in the luxury of a warm towel, Runtal Towel Radiators have no equal. Towel radiators provide an attractive, and versatile means for heating bathrooms, kitchens, laundry rooms and really any room where comfort is paramount and space is limited.

Towel radiators are also offered in self-contained electric versions which are perfect for off season heating (such as Spring or Fall) or for situations where a forced hot water heating system is impractical. (See The Electric Residential Line Brochure for more information on our electric models.).



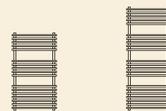
Runtal Omnipanel®



| Models: | TW9* | TW12* | TW15* | TW18 | TW21 |
|--------------|-------|-------|-------|-------|-------|
| Height | 26.1" | 34.8" | 43.6" | 52.3" | 61.1" |
| Depth | 3.8" | 3.8" | 3.8" | 3.8" | 3.8" |
| BTUH: | | | | | |
| 16" wide: | 1600 | 1920 | 2400 | 3040 | 3520 |
| 20" wide: | 2000 | 2400 | 3000 | 3800 | 4400 |
| 24" wide*: | 2400 | 2880 | 3600 | 4560 | 5280 |
| 30" wide: | 3000 | 3600 | 4500 | 5700 | 6600 |
| 36" wide: | 3600 | 4320 | 5400 | 6840 | 7920 |

*Also available in a polished chrome finish. Chrome finishes reduce radiator output by 20%.

Runtal Neptune®



| Models: | NTR-3320* | NTR-4620* |
|---------|-----------|-----------|
| Height | 33.1" | 45.7" |
| Width | 19.5" | 19.5" |
| Depth | 4.2" | 4.2" |
| BTUH | 2228 | 2766 |

*Neptune models are available in polished chrome or stainless steel as well as painted finishes. Chrome and stainless steel finishes reduce radiator output by 20%.

Runtal Radia®



| Models: | RTR-2924 | RTR-4624 | RTR-4630 |
|---------|----------|----------|----------|
| Height | 28.4" | 45.4" | 45.4" |
| Width | 23.6" | 23.6" | 29.5" |
| Depth | 3.6" | 3.6" | 3.6" |
| BTUH | 2136 | 3358 | 4150 |

All Models: BTUH Output @ 180°F

About piping for the towel radiators: The Omnipanel and Radia models may be piped from either the bottom or the rear of the unit; and the Solea, Versus, Neptune and Fain from the bottom only.



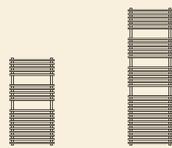
Runtal Fain®



| | |
|---------------|------------------|
| Model: | FTR-3320* |
| Height | 33.1" |
| Width | 19.7" |
| Depth | 3.5" |
| BTUH | 984 |

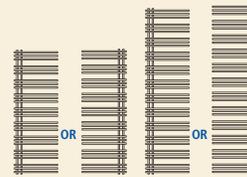
*Solid stainless steel

Runtal Solea®



| | | |
|----------------|-----------------|-----------------|
| Models: | STR-3420 | STR-5420 |
| Height | 33.8" | 53.3" |
| Width | 19.7" | 19.7" |
| Depth | 5.5" | 5.5" |
| BTUH | 2014 | 3108 |

Runtal Versus®



| | | |
|----------------|-----------------|-----------------|
| Models: | VTR-5223 | VTR-6923 |
| Height | 51.5" | 68.5" |
| Width | 22.8" | 22.8" |
| Depth | 3.2" | 3.2" |
| BTUH | 2656 | 3494 |

Accessories



Towel Bar Accent



Accent with Three Robe Knobs

Towel Bar Accents and Accents with Three Robe Knobs are available specifically for 24" wide Omnipanels in painted finishes to match the radiator. These accessories attach to any of the radiator panels.



Robe Knobs

Available in polished brass, chrome or painted finishes. Robe knobs attach between panels.



Pull-out Drying Rack

(for Omnipanel and Radia Models)
Available in 15-1/2" & 25-1/2" widths for the Omnipanel and 17" & 21" widths for the Radia. Utilizing a spring action mechanism, it attaches wherever there is a missing panel. Drying racks may be used to stack towels and to dry delicates.



Specialty Radiators

Runtal Specialty Radiators may be fabricated to match all of your architectural and aesthetic needs. Curved radiators, segmented radiators for bay windows and high-output double panels can be custom made. Please contact Runtal with your special needs. Providing a unique heating solution is a specialty.



Bench Convectector

Architect: Office of Peter Rose



Curved Panel



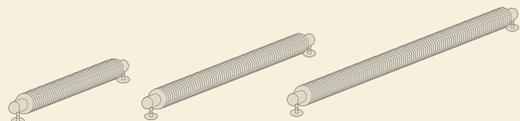
Segmented Panel for bay window



Curtain Wall Convectector on Pedestals

Flow Form

The industrial heating elements of the Flow Form appear as a beautiful object in its own right. The spiral fins add a dramatic twist to modern design.

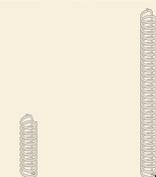


| Flow Form | XFF 100 | XFF 150 | XFF 200 |
|-------------------|---------|---------|---------|
| Length | 39.4" | 59.1" | 78.8" |
| Height | 7.5" | 7.5" | 7.5" |
| Diameter | 5.2" | 5.2" | 5.2" |
| BTUH Output@180°F | 2553* | 3920* | 5288* |

*Chrome finish reduces radiator output by 12%.

Hot Spring

Brilliantly imaginative, the mesmerizing and stylish design of the Hot Spring captures a tightly coiled elegance in reflected light.



| Hot Spring | HOT 60 | HOT180 |
|-------------------|--------|--------|
| Height | 25.6" | 72.8" |
| Diameter | 7.8" | 7.8" |
| Depth | 11.0" | 11.0" |
| BTUH Output@180°F | 1975* | 6681* |

*Chrome finish reduces radiator output by 20%.

A Step-by-Step Process for Choosing Your Runtal Radiators

- 1. You must choose a closed loop hydronic heating system.** Hydronic heat has many advantages over forced-air heating systems in terms of comfort, energy savings and controls. A hydronic heating system is comprised of a boiler that heats hot water and transfers this thermal energy through pipes to the radiators.
- 2. The heat requirement per room must be determined.** This calculation, measured in BTUH should be done by either a heating contractor or qualified plumber. Because of the many variables involved in calculating a building's heat loss (R-value of insulation, region of the country, weather conditions, etc.) a professional should confirm the actual BTUH requirements. Table 1 provides good heat requirement estimates for different areas of the country.
- 3. Decide on the radiator style and desired placement.** Decide where you want to place the radiators. Placement of the radiators under windows or on outside walls is optimal as this is where the heat loss is greatest.
- 4. Determine the height and length available.** Divide the BTUH requirement for the room by the total wall space chosen for radiator placement. This will establish the BTUH per foot required. Select a model which has a BTUH per foot within +/-10% of the level calculated. The outputs in this brochure are based on a water temperature of 180 degrees. BTUH outputs at other water temperatures may be calculated by using Table 2. In general the use of a lower water temperature is more energy efficient.
- 5. Choose piping configuration.** The radiators must be connected to the boiler. Radiators can either be piped in a series loop (one radiator piped to the next radiator) or individually off the main pipes. The most common piping connections are either from the bottom or side of the radiator or combination of both. All baseboards and wall panels unless specified otherwise, are manufactured with AB tappings. This allows the flexibility to pipe in multiple ways (see Table 3). Runtal also offers rear piping and supply and return on the same side as options. Specifications may be downloaded from Runtal's website.
- 6. Choose control valves if desired.** Choose control valves if desired. As an option Runtal offers a variety of standard and decorative shut-off and control valves in both straight and angled configurations. Decorative valves are offered in either polished chrome or brushed nickel finishes. Shut-off valves allow the isolating of each radiator from the rest of the system for easy removal (for wall painting, etc.). A control valve allows you to control the temperature of an individual radiator. Adding a thermostatic sensor to the control valve results in the temperature at a specific radiator or series of radiators being maintained automatically.



Table 1
Heat Requirements
Sample Cities*

| City: | BTUH per sq. ft.: |
|------------------|-------------------|
| Boston | 40 |
| Chicago | 40 |
| Denver | 40 |
| New York City | 40 |
| Philadelphia | 35 |
| Portland, OR | 25 |
| San Francisco | 25 |
| Seattle | 25 |
| Toronto | 40 |
| Washington, D.C. | 35 |

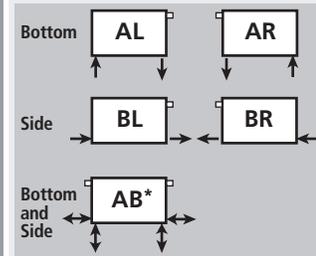
* Estimates only

Table 2
Calculating BTUH Output for
Different Water Temperatures

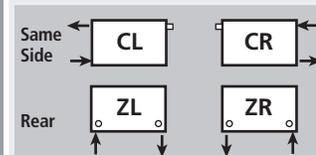
Please note: The BTUH outputs listed in this catalog are based on 180°F water. The following chart may be used for calculating the BTUH outputs for different water temperatures.

| Water Temperature: | Multiply listed BTUH by: |
|--------------------|--------------------------|
| 120° | .38 |
| 130° | .48 |
| 140° | .57 |
| 150° | .67 |
| 160° | .78 |
| 170° | .89 |
| 180° | 1 |
| 190° | 1.13 |

Table 3
Popular Piping Configurations



Other Piping Options



* Allows for all types of A&B piping. Flush plugs are included for closing off the unused tappings.

7. **Choose pipe trims if desired.** Runtal offers a complete complement of trims to cover both bottom and side piping. Care should be taken to ensure that all piping has been done with standard trim covers in mind. Vertical trim covers are available in both 3" and 10" heights and are designed to cover the straight vertical pipe between the radiator and the floor. They can easily be field cut for heights other than 3" and 10". Horizontal trims are used to cover piping from the side of the radiators. Straight trims (used as End Trims and Center Trims) are 12" long. Inside and Outside Corner Trims are 12" x 12" and End Cap Trims are either 6" x 2" (right hand) or 2" x 6" (left hand). Other size trims are available upon request.
8. **Choose a finish.** Runtal offers a palette of 10 standard colors, two metallics, and 99 designer colors (partial selection below) in a durable powder coat enamel.
9. **Enjoy!** Be assured that you have chosen the very best!

A Selection of Runtal Colors

Standard Colors



Metallic Colors



Optional Colors



About the colors

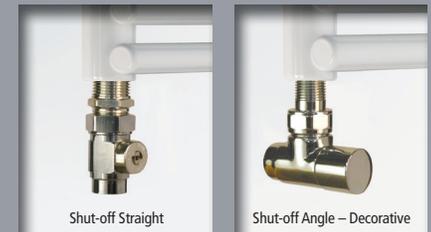
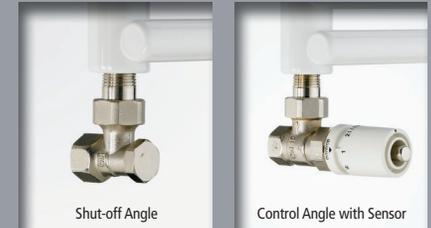
Printed colors are not an exact representation. Contact Runtal for a "Color Selection Guide".

Other Products by Runtal

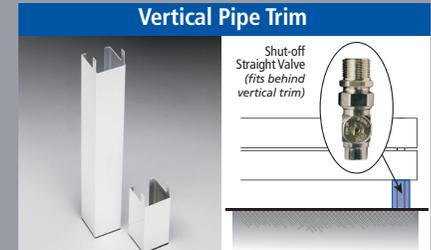
In addition to Hydronic Products, Runtal offers complete lines of decorative heating products for Steam and Electric systems.



Valves and Controls



Trim Options





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