

## Same End Piping

Same end piping, where the supply and return heating water piping are both at one end of the radiator, can lead to tremendous savings in on-site piping and cost. Single radiators, or a series of up to three radiators may be piped in a same end series.



An example of this savings potential would be a situation where it would be difficult (or impossible) to get a water return pipe to the far end of the radiator (or series of radiators). Same end piping allows both the supply and return water piping to be at the accessible end of the radiator.

Same end piping also evens out the heat output along the entire length of the radiator series. This is because the warmest supply water on the piped end is coupled with the coolest return water; while at the non-piped end, the coolest supply water is coupled with the warmest return water.



Another important application of same end piping is in multi-story buildings with vertical stacked risers and open perimeter bays. With a single set of centrally located vertical supply and return piping risers, it is possible to run Runtal same-end series radiators up to three bays (at 30'-0" maximum per bay) in each direction from the central riser set. Up to 180'-0" of perimeter could be handled with just one set of risers, with no additional return piping required. Additionally, the heat output is relatively constant along the entire series, assuring a comfortable environment for the entire space.

It is important to note that due to the baffling method used to separate the water flows in same end series radiators, only three radiators (regardless of the radiator's length) should be piped in series.