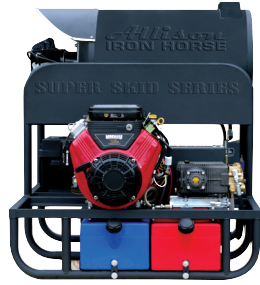


VERTICAL COIL vs. HORIZONTAL COIL

**So why would you purchase one over the other.
The answer is really quite easy!**

***Lower Cost to build = lower selling Price
and that is the MAJOR reason!***



So, now that we have covered all of the advantages that the vertical coil has over horizontal coil let's talk about it's disadvantages.

Up-right coils tend to be about 15% to 20% less efficient than horizontal coils. We all know that heat rises and with a vertical coil heat has a very easy escape route - *straight up*. On the other hand - heat in a horizontal coil will linger around longer before it finds it's way out of the exhaust stack. Here is a good *'rule of thumb'* - an 8 GPM machine that will get to 200° in a horizontal coil will only get to around 160°-170° in a vertical coil. Remember, the more water that has to be heated - the more heat loss you will experience with a vertical coil.

As we know that *'heat rises'* we also know that *'water falls'* because of gravity. So, if you spring a leak in a vertical coil all of the water will fall into the burner housing. With a horizontal coil the water will accumulate in the bottom of the coil wrapper and leak out around the holes that were drilled into the wrapper to accomodate the inlet/outlet coil pipes. If a coil erupts in a vertical coil and the water drops straight down into the burner housing not only will you have the expense of repairing or replacing the coil but you could be facing \$400-\$500 in bruner damages as well. *Even if you never spring a leak* the condensation alone that forms on the coil everytime you use it and shut it down continues to *'drip'* into the burner housing.

We see many vertical coil pressure washers on open trailers and quite often the contractor will be on the job-site and it starts to rain. Unless they have a *'rain-cap'* or something to cover the heating coil - water easily finds it's way to the burner housing and there goes the electricals. If you already have a vertical coil pressure washer you should always be prepared by having a *'rain-cap'* that fits over the exhaust stack or some other way to keep water from entering the coil.

Also, accessability on the vertical coil is a nightmare. If you ever have to change a fuel pump, igniter, electrodes, etc. you can expect to be on the job for quite some time.

And having to replace an entire coil on a vertical unit is horrible. - John Allison