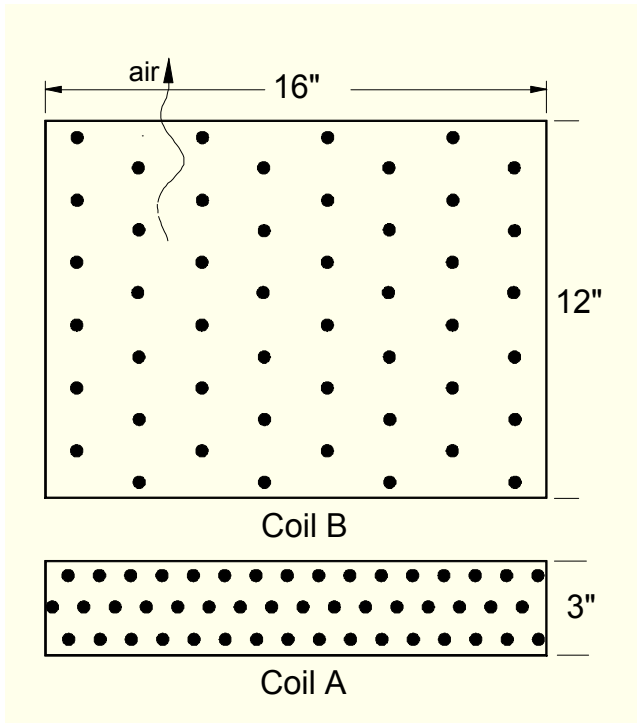


The DEEP coil application paper showed how a conventional thin “slab” coil can be quickly converted to DEEP coil to avail the enormous cost and energy savings. For example, in the following sketch Coil A has 1 x 1” tube spacing, and a cross section of 16” wide by 3” high. This coil when converted to 4 x 1” tube spacing becomes 16” wide by 12” high.



In conventional refrigeration condensing unit application, the new shape of 16” wide by 12” high can provide “chimney” effect. Every time a compressor stops in between its cycles, there is some residual energy within the coil. This energy in the form of low density, warm air will naturally rise and exit the coil, alleviating some load on the compressor. This will not show in a continuous operation type laboratory test, but can provide some savings. These savings are in addition to the higher level of heat transfer made possible by “counter flow” configuration that the new shape allows.