**Measuring Airflow, Electric Heat Temperature Rise Method**

Use this method with electric resistance heat.  You can also use a velometer or the gas heat method.

* With power to the air handler heater section on, call for heat.  Make sure all heating stages are energized and fan selection is turned to “ON”.
* Measure the supply voltage to the air handler and record the value.
* Measure the total amperage being drawn by the heaters and record the value.
* Multiply the measured voltage by the measured amperage.  Multiply the result by 3.414.  This is your total BTUH output.  Record this value.
* When the supply air temperature with all heat on has stabilized, measure the temperature of the supply air 36″ from the plenum.  Record this value.
* Measure the temperature of the return air at the filter rack.  Record this value.
* Subtract the return air temperature from the supply air temperature to obtain the difference (delta T).  Record this value.
* Multiply the delta t by 1.08.  Record this value.
* Divide your BTUH output by the value above.  The answer is your actual CFM.

Example:

* Voltage = 235
* Amps = 75
* Supply air temp = 110F
* Return air temp = 74F
* 235V x 75a x 3.414 = 60171 BTUH
* 110F -74F =36F
* 60171 / 1.08 x 36 = 1548 CFM