**How to Measure Airflow, Gas Heat Temperature Rise Method**

The best method to measure airflow is with a vane anemometer.  Following is one of the alternate methods if you have gas heat.

* Disconnect power to the furnace.
* Set the indoor blower to run on high speed in heat mode.  Restore power.
* Set to call for heat and confirm heat is running.  Make sure both stages of heat are on.
* Determine the heating output capacity of the furnace in btu/h.  Record this value.
* Run the heating system and allow time for the system to stabilize.  (blower on)
* Measure the temperature of the return air at the filter.  Record this value.
* Record the supply air temperature at least 36 inches from the plenum.  Record this value.
* Disconnect the power and return the blower speed back to its original setting for heating mode.
* Subtract your measured return air temperature from your supply air temperature.  This is the Delta-t.
* Multiply your Delta-t by 1.08.  Record this measured BTUH value.
* Divide your furnace label BTUH **output** by your measured BTUH value.  This is your CFM.

Example

* BTUH **output** label:  100,000
* Supply air temp:  120F
* Return air temp:  70F

100,0000

1.08 x 50 = 1852 CFM

**Natural Draft 80% Induced Draft 90% Condensing**

BtuH Output label \_\_\_\_\_\_\_\_\_\_\_ BtuH Output label \_\_\_\_\_\_\_\_\_\_\_ BtuH Output label \_\_\_\_\_\_\_

Supply Air Temp \_\_\_\_\_\_\_\_\_\_\_\_ Supply Air Temp \_\_\_\_\_\_\_\_\_\_\_\_ Supply Air Temp \_\_\_\_\_\_\_\_

Return Air Temp\_\_\_\_\_\_\_\_\_\_\_\_ Return Air Temp\_\_\_\_\_\_\_\_\_\_\_\_ Return Air Temp\_\_\_\_\_\_\_\_

Air Temp Diff. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Air Temp Diff. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Air Temp Diff. \_\_\_\_\_\_\_\_\_\_

Total CFM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total CFM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total CFM \_\_\_\_\_\_\_\_\_\_\_\_\_