

## A/C Performance Worksheet

### Step 1) Verify Components:

Condenser M/N \_\_\_\_\_  
 S/N \_\_\_\_\_

Evaporator M/N \_\_\_\_\_  
 S/N \_\_\_\_\_

Metering Device M/N \_\_\_\_\_ TXV / Fixed (piston size)

Air handler/Furnace M/N \_\_\_\_\_  
 S/N \_\_\_\_\_

Rated capacity of combination from ARI directory \_\_\_\_\_ Btuh

**<http://www.ahridirectory.org>**

### Step 2) Verify proper airflow (400 cfm/ton AC, 450 cfm/ton ASHP)

Selected blower speed \_\_\_\_\_ (High, Med H, Med L, Low)  
 Measured CFM actual \_\_\_\_\_ CFM  
 TESP \_\_\_\_\_ "wc  
 Pressure drop across coil \_\_\_\_\_ "wc

### Step 3) Calculate actual BTU<sub>h</sub> capacity (reference enthalpy sheet for conversion)

Return WB \_\_\_\_\_ °F Converted to h \_\_\_\_\_  
 Supply WB \_\_\_\_\_ °F Converted to h \_\_\_\_\_  
 Δh \_\_\_\_\_

Btuh output = 4.5 x measured CFM x Δh\*\*

Btuh = 4.5 x \_\_\_\_\_ CFM x \_\_\_\_\_ Δh

Btuh = \_\_\_\_\_

Btuh = \_\_\_\_\_ / Rated Btuh \_\_\_\_\_ x 100

Percent of Capacity \_\_\_\_\_ % (+/- 10% of nominal acceptable)

All formulas are standard air formulas. If desired, corrections for air density can be made to further increase accuracy of calculations. Using these equations and procedures a reasonable expectation of performance is within 10% of the rated output. There may be additional losses due to low nominal voltage, long line sets, and conditions which may need to be considered. If available, consult manufacturers installation operation instructions or performance information.