**Unit Information**

➮ **EQUIPMENT DATA**

OUTDOOR UNIT

Model #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Serial #:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date Installed:\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EVAPORATOR

Model #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Serial #:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

➮**Refrigeration** **System Data**

**Pressures** ➮

|  |  |
| --- | --- |
| Compressor Discharge  |  |
| Compressor Suction |  |
| Liquid Line  |  |
| Saturated Condenser |  |
| Saturated Evaporator  |  |

**Temperatures** ➮

|  |  |
| --- | --- |
| Discharge Temperature  |  |
| Suction Temperature  |  |
| Liquid Line Temperature  |  |
| Saturated Condenser Temperature |  |
| Saturated Evaporator Temperature  |  |

➮**Air Side** **System Data**

|  |  |
| --- | --- |
| **Return Air Dry Bulb Temperature** |  |
| **Return Air Wet Bulb Temperature** |  |
| **Supply Air Dry Bulb Temperature** |  |
| **Supply Air Wet Bulb Temperature** |  |
| **Supply Air Enthalpy**  |  |
| **Return Air Enthalpy** |  |
| **Unit Air CFM** |  |
| **Unit Calculated BTU’s** |  |
| **OSA Temperature**  |  |

**Electrical Data** ➮

|  |  |
| --- | --- |
| Compressor Average Current  |  |
| Supply Fan Average Current |  |
| Condenser Fan Average Current |  |
| Unit Average Running Voltage  |  |
| Unit Average Running Current |  |
| Unit Average Power Factor  |  |
| Unit Average Watts  |  |
| Unit Calculated EER |  |
| Unit Calculated COP |  |
| Rated Unit Voltage  |  |
| Rated Unit FLA |  |
| Rated EER  |  |

➮**Formulas** System **Data**

|  |  |
| --- | --- |
| **BTU’s** | **BTU/HR=4.5 x CFM x DELT (BTU/LB)** |
| **Tons** | **Capacity/12,000** |
| **CFM** | **CFM= AREA x VELOCITY** |
| **Area Rectangular Duct** | **A=(L(inches) x W(inches))/144** |
| **Area Round Duct** | **(PIE x DI. SQ.) / (4x144)** |
| **1 Phase Watts**  | **Watts = *PF*×amp × volt** |
| **3 Phase Watts**  | **Watts = V avg. x A avg x p.f. x 1.732** |
| **EER** | **EER= output cooling energy in BTU/Input electrical energy in Wh** |
| **COP** | **COP=Power output/Power input** |
| **BTU to Watts**  | **1 BTU = 0.293071 Watts** |

Capacity

Unit BTU: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit Watts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit EER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit COP: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Out Side Air

DB:\_\_\_\_WB:\_\_\_\_

Mixed Air

DB:\_\_\_\_\_ WB:\_\_\_\_



 Return Air

DB:\_\_\_\_\_\_\_\_\_ WB\_\_\_\_\_\_\_\_\_\_\_\_

W

Supply CFM

CFM:\_\_\_\_\_\_\_\_

Supply Air

DB:\_\_\_\_WB:\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Signiture | Class | Date |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |