### aircel-logo

**Maryville, TN**

# SCOPE

|  |  |
| --- | --- |
| **Model:** | AES-3500 |
| **Application:** |  |
| **Options:** |  |

# OPERATING CONDITIONS

|  |  |
| --- | --- |
| **Air Flow Rate (SCFM)** | 3500 |
| **Inlet Air Operating Pressure (PSIG)** | 100 |
| **Inlet Air Temperature (°F)** | 100 |
| **Relative Humidity (%)** | 100 |
| **Minimum Ambient Temperature (°F)** | 40 |
| **Maximum Ambient Temperature (°F)** | 120 |
| **Maximum Inlet Temperature (°F)** | 140 |
| **Maximum Pressure (PSIG)** | 232 |
| **Air Pressure Drop (PSI)** | <5 |
| **Air Temperature at Dryer Outlet (°F)** | 69-80 |
| **Outlet Dew Point (°F)** | 38 |

# SYSTEM DETAILS

|  |  |  |
| --- | --- | --- |
| **Drain Outlet Connection (in.)** | | 0.5 |
| **Number of Drains** | | (2) 2 |
| **Drain Type** | | Zero Loss |
| **Noise Level (dB)** | | < 85 |
| **Heat Exchanger:** | | |
| **Heat Exchanger Standard Volumetric Flow Rate (SCFM)** | 2000 |
| **Number of Heat Exchangers** | (2) 2 |
| **Air to Air Heat Exchanger Type** | Stainless Steel Brazed Plate |
| **Air to Refrigeration Heat Exchanger Type** | Stainless Steel Brazed Plate |
| **Separator Type** | External Centrifugal |
| **Condensing Unit:** | | |
| **Type of Cooling** | Air-Cooled |
| **Type of Refrigerant** | R-404a |
| **Nominal HP** | (2) 10 |
| **Condenser Air Flow Rate (CFM)** | 4900 |
| **Capacity Control** | Digital Compressor |
| **Expansion System** | Thermal Expansion Valve |
| **Condenser Heat Rejected (Btu/hr)** | (2) 148651 |
| **Refrigeration:** | | |
| **Refrigerant Charge** | (2) 30 lbs. 0 oz. |
| **Refrigerant Compressor Type** | Scroll |
| **Maximum Suction (PSIG)** | 100 |
| **Minimum Suction (PSIG)** | 70 |
| **Maximum Discharge (PSIG)** | 300 |
| **Minimum Discharge (PSIG)** | 220 |
| **Fan:** | | |
| **Fan Motor Quantity** | 2 |
| **Amps per Motor** | 1.9 |
| **Fan Motor Power (W)** | 1020 |
| **Motor Size (Watts)** | (2) 372.85 |
| **Motor Size (HP)** | (2) 1/2 |

# ELECTRICAL DETAILS

|  |  |
| --- | --- |
| **Electrical Connection** | 460-3-60 |
| **Condensing Unit Power (KW)** | N/A |
| **Compressor LRA (Amp)** | 125 |
| **Compressor RLA (Amp)** | 20 |
| **Min Circuit (Amp)** | 29.4 |
| **Electrical Protection Class** | NEMA 4 |

# DRYER ASSEMBLY

|  |  |
| --- | --- |
| **Height (in.)** | 110 |
| **Width (in.)** | 124 |
| **Depth (in.)** | 44 |
| **Weight (lbs.)** | 5180 |
| **Inlet/Outlet Connections (in.)** | 6 |