### aircel-logo

**Maryville, TN**

# SCOPE

|  |  |
| --- | --- |
| **Model:** | VF-100 |
| **Application:** |  |
| **Options:** |  |

# OPERATING CONDITIONS

|  |  |
| --- | --- |
| **Air Flow Rate (SCFM)** | 100 |
| **Inlet Air Operating Pressure (PSIG)** | 100 |
| **Inlet Air Temperature (°F)** | 100 |
| **Relative Humidity (%)** | 100 |
| **Minimum Ambient Temperature (°F)** | 32 |
| **Maximum Ambient Temperature (°F)** | 100 |
| **Maximum Inlet Temperature (°F)** | 100 |
| **Maximum Pressure (PSIG)** | 200 |
| **Air Pressure Drop (PSI)** | <5 |
| **Air Temperature at Dryer Outlet (°F)** | 69-80 |
| **Outlet Dew Point (°F)** | 38 |

# DRYER ASSEMBLY

|  |  |
| --- | --- |
| **Height (in.)** | 22 |
| **Width (in.)** | 24 |
| **Depth (in.)** | 18 |
| **Weight (lbs.)** | 132 |
| **Inlet/Outlet Connections (in.)** | 1 |

# ELECTRICAL DETAILS

|  |  |
| --- | --- |
| **Electrical Connection** | 115-1-60 |
| **Condensing Unit Power (KW)** | 0.83 |
| **Compressor LRA (Amp)** | 44.0 |
| **Compressor RLA (Amp)** | 9.5 |
| **Min Circuit (Amp)** | 12.8 |
| **Electrical Protection Class** | NEMA 1 |

# SYSTEM DETAILS

|  |  |  |
| --- | --- | --- |
| **Drain Outlet Connection (in.)** | | 0.25 |
| **Number of Drains** | | 1 |
| **Drain Type** | | Timer |
| **Noise Level (dB)** | | < 85 |
| **Heat Exchanger:** | | |
| **Heat Exchanger Volumetric Flow Rate (SCFM)** | 100 |
| **Number of Heat Exchangers** | 1 |
| **Air to Air Heat Exchanger Type** | Aluminum Plate-Fin |
| **Air to Refrigeration Heat Exchanger Type** | Aluminum Plate-Fin |
| **Separator Type** | Internal Demister |
| **Condensing Unit:** | | |
| **Type of Cooling** | Air-Cooled |
| **Type of Refrigerant** | R-134a |
| **Nominal HP** | 1/2 |
| **Condenser Air Flow Rate (CFM)** | 300 |
| **Capacity Control** | Constant Pressure Valve |
| **Expansion System** | Constant Pressure Valve |
| **Refrigeration:** | | |
| **Refrigerant Charge** | 0 lbs. 12 oz. |
| **Refrigerant Compressor Type** | Reciprocating (Hermetic) |
| **Maximum Suction (PSIG)** | 65 |
| **Minimum Suction (PSIG)** | 28 |
| **Maximum Discharge (PSIG)** | 230 |
| **Minimum Discharge (PSIG)** | 100 |
| **Fan:** | | |
| **Fan Motor Quantity** | 1 |
| **Amps Per Motor** | 0.53 |
| **Motor Power Consumption (W)** | 48 |
| **Motor Size (HP)** | 0.012 |