### aircel-logo

**Maryville, TN**

# SCOPE

|  |  |
| --- | --- |
| **Model:** | APET-1000 |
| **Application:** |  |
| **Options:** |  |

# OPERATING CONDITIONS

|  |  |
| --- | --- |
| **Air Flow Rate** | 906 SCFM @ 225 psig981 SCFM @ 500 psig1002 SCFM @ 725 psig |
| **Inlet Air Temperature (°F)** | 100 |
| **Relative Humidity (%)** | 100 |
| **Minimum Ambient Temperature (°F)** | 40 |
| **Maximum Ambient Temperature (°F)** | 120 |
| **Maximum Inlet Temperature (°F)** | 120 |
| **Maximum Pressure (PSIG)** | 725 |
| **Air Pressure Drop (PSI)** | <5 |
| **Air Temperature at Dryer Outlet (°F)** | 69-80 |

# SYSTEM DETAILS

|  |  |
| --- | --- |
| **Drain Outlet Connection (in.)** | 0.25 |
| **Number of Drains** | 1 |
| **Drain Type** | Timer  |
| **Noise Level (dB)** | < 85 |
| **Heat Exchanger** |
| **Heat Exchanger Standard Volumetric Flow Rate (SCFM)** | 1000 |
| **Number of Heat Exchangers** | 1 |
| **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-134a |
| **Nominal HP** | 5  |
| **Condenser Air Flow Rate (CFM)** | 4240 |
| **Capacity Control** | Hot Gas Bypass Valve  |
| **Expansion System** | Thermal Expansion Valve |
| **Condenser Heat Rejected (Btu/hr)** | 71,649 |
| **Refrigeration** |
| **Refrigerant Charge** | 9 lbs. 0 oz. |
| **Refrigerant Compressor Type** | Scroll |
| **Maximum Suction (PSIG)** | 40 |
| **Minimum Suction (PSIG)** | 28 |
| **Maximum Discharge (PSIG)** | 230 |
| **Minimum Discharge (PSIG)** | 160 |
| **Fan** |
| **Fan Motor Quantity** | 2 |
| **Amps per Motor** | 0.9 |
| **Fan Motor Power (W)** | 600 |
| **Motor Size (Watts)** | 186.42 |
| **Motor Size (HP)** | 0.25 |

# ELECTRICAL DETAILS

|  |  |
| --- | --- |
| **Electrical Connection** | 460-3-60 |
| **Condensing Unit Power (KW)** | N/A |
| **Compressor LRA (Amp)** | 63 |
| **Compressor RLA (Amp)** | 9.6 |
| **Min Circuit (Amp)** | 14.4 |
| **Electrical Protection Class** | NEMA 1 |

# DRYER ASSEMBLY

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| --- | --- |
| **Height (in.)** | 48 |
| **Width (in.)** | 38 |
| **Depth (in.)** | 54 |
| **Weight (lbs.)** | 790 |
| **Inlet/Outlet Connections (in.)** | 1 |