



## Maryville, TN

### SCOPE

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**Model:** AES-1000  
**Application:** \_\_\_\_\_  
**Options:** \_\_\_\_\_

### OPERATING CONDITIONS

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<b>Air Flow Rate (SCFM)</b>	1000
<b>Inlet Air Operating Pressure (PSIG)</b>	100
<b>Inlet Air Temperature (°F)</b>	100
<b>Relative Humidity (%)</b>	100
<b>Minimum Ambient Temperature (°F)</b>	40
<b>Maximum Ambient Temperature (°F)</b>	120
<b>Maximum Inlet Temperature (°F)</b>	140
<b>Maximum Pressure (PSIG)</b>	232
<b>Air Pressure Drop (PSI)</b>	<5
<b>Air Temperature at Dryer Outlet (°F)</b>	69-80
<b>Outlet Dew Point (°F)</b>	38

### SYSTEM DETAILS

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<b>Drain Outlet Connection (in.)</b>	0.25
<b>Number of Drains</b>	1
<b>Drain Type</b>	Zero Loss
<b>Noise Level (dB)</b>	< 85

#### Heat Exchanger:

<b>Heat Exchanger Standard Volumetric Flow Rate (SCFM)</b>	1000
<b>Number of Heat Exchangers</b>	1
<b>Air to Air Heat Exchanger Type</b>	Stainless Steel Brazed Plate
<b>Air to Refrigeration Heat Exchanger Type</b>	Stainless Steel Brazed Plate
<b>Separator Type</b>	External Centrifugal

#### Condensing Unit:

<b>Type of Cooling</b>	Air-Cooled
<b>Type of Refrigerant</b>	R-404a
<b>Nominal HP</b>	5
<b>Condenser Air Flow Rate (CFM)</b>	4240

<b>Capacity Control</b>	Digital Compressor
<b>Expansion System</b>	Thermal Expansion Valve
<b>Condenser Heat Rejected (Btu/hr)</b>	71,307

**Refrigeration:**

<b>Refrigerant Charge</b>	9 lbs. 0 oz.
<b>Refrigerant Compressor Type</b>	Scroll
<b>Maximum Suction (PSIG)</b>	100
<b>Minimum Suction (PSIG)</b>	70
<b>Maximum Discharge (PSIG)</b>	300
<b>Minimum Discharge (PSIG)</b>	220

**Fan:**

<b>Fan Motor Quantity</b>	2
<b>Amps per Motor</b>	0.9
<b>Fan Motor Power (W)</b>	600
<b>Motor Size (Watts)</b>	186
<b>Motor Size (HP)</b>	1/4

**ELECTRICAL DETAILS**

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<b>Electrical Connection</b>	460-3-60
<b>Condensing Unit Power (KW)</b>	N/A
<b>Compressor LRA (Amp)</b>	44
<b>Compressor RLA (Amp)</b>	11.3
<b>Min Circuit (Amp)</b>	16.5
<b>Electrical Protection Class</b>	NEMA 4

**DRYER ASSEMBLY**

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<b>Height (in.)</b>	48
<b>Width (in.)</b>	38
<b>Depth (in.)</b>	54
<b>Weight (lbs.)</b>	810
<b>Inlet/Outlet Connections (in.)</b>	3