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**Maryville, TN**

***SCOPE***

Model: AEHD-1400\_\_ Application: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Options: \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***OPERATING CONDITIONS***

 Inlet Design Flow Rate: **1400** scfm, (Std. 70°F/14.7 psia)

Inlet Design Pressure: **100** psig

 Inlet Design Temperature: **100** ° F

 System Design Pressure: **150** psig

 Outlet Compressed Air Flow Rate:  **1190** scfm (Average)

 Outlet Dewpoint at Design Conditions: **-40** ° F pressure dew point

 Compressed Air Purge Losses: **210** scfm (time average)

 Decompression Air Losses: **0.3** scfm (time average)

 NEMA Cycle Time: **8** Hrs (4 Hrs drying; 4 Hrs Regen.)

 Ambient Air Temperature: **38** °F (Min.); **105**°F (Max.)

 Ambient Relative Humidity: **70 %**

 System Pressure Loss with Clean, Dry Filter Elements**: 8** psid

***SYSTEM COMPONENTS***

Prefilter: Coalescing filter with 0.01 μm elements

 Condensate Drain: Zero-loss Electronic Drain

 After Filter: Particulate filter with 1 μm elements

 Final Filter: Not Applicable

 Desiccant Type: Activated Alumina

 Desiccant Quantity: 797 lbs./vessel

 Desiccant Vessel: ASME Section VIII Division 1, “U” stamped, 150 psig at 450°F

 Controller Type: Programmable Logic Controller (PLC) in NEMA 4 Enclosure

 Controller Model: APC

 Energy Management System: Mid-bed humidity sensor

 Hygrometer (optional): Capacitive Humidity Sensor, -112°F to +68°F dew point

Switching Valves: 3 In. pneumatically operated High Performance butterfly valves

 Regeneration Blower: Not Applicable

 Regeneration Heater: 22 KW

 Regeneration Cooler: Not Applicable

 Piping: 3 In. Sch. 40

 Insulation: Heater shell and hot air piping protected (vessels by customer)

***DRYER ASSEMBLY***

 Height: 122 inches

 Width: 85 inches

 Depth: 68 inches

 Connection Size: 3” ANSI 150 lb RF flanges

 Dryer Assembly Weight: 5,200 pounds