Maryville, TN

SCOPE

Model: ABP-3000___ Application: _____

Options: _____

_____

OPERATING CONDITIONS

Inlet Design Flow Rate:	**3,000**	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:	**2,939**	scfm (Average)
Outlet Dewpoint at Design Conditions:	**-40**	° F pressure dew point
Compressed Air Purge Losses:	**60**	scfm (time average)
Decompression Air Losses:	**1**	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**	**% at 105°F**
System Pressure Loss with Clean, Dry Filter Elements**:**	**5**	psi (calculated)

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:	1,928 lbs./vessel
Desiccant Vessel:	ASME Section VIII Division 1, “U” stamped, 150 psig at 450°F
Controller Type:	Programmable Logic Controller (PLC) in a NEMA 4 Enclosure
Controller Model:	A-B 1100
Energy Management System:	Downstream humidity sensor
Hygrometer:	Capacitive Humidity Sensor, -112°F to +68° dew point
Switching Valves:	6” pneumatically operated High Performance butterfly valves
Regeneration Blower:	Centrifugal Blower with 15 HP motor
Regeneration Heater:	64 KW
Regeneration Cooler:	Not Applicable
Piping:	6 In. NPS Sch. 40
Insulation:	Heater shell and hot air piping protected (vessels by customer)

DRYER ASSEMBLY

Height:	127 inches
Length:	131 inches
Depth:	111 inches
Connection Size:	6 In. ANSI 150 lb RF Flange
Dryer Assembly Weight:	13,400 pounds (estimated)