



Maryville, TN

SCOPE

Model: ABP-800 Application: _____

Options: _____

OPERATING CONDITIONS

Inlet Design Flow Rate:	800	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:	784	scfm (Average)
Outlet Dewpoint at Design Conditions:	-40	° F pressure dew point
Compressed Air Purge Losses:	16	scfm (time average)
Decompression Air Losses:	0.2	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:	518 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:	3" pneumatically operated High Performance butterfly valves
Regeneration Blower:	Vortex Regenerative Blower with 5 HP motor
Regeneration Heater:	18 KW
Regeneration Cooler:	Not Applicable
Piping:	3 In. NPS Sch. 40
Insulation:	Heater shell and hot air piping protected (vessels by customer)

DRYER ASSEMBLY

Height:	100 inches
Length:	87 inches
Depth:	60 inches
Connection Size:	3 In. ANSI 150 lb RF Flange
Dryer Assembly Weight:	3,600 pounds (estimated)