



Dehumidifier Set-up Sheet

Job Number: SGB: **217064**

Dryer Size: **VFB-9-E-2100-DXA-EAH-HEPA**

Customer: **Lubrizol Dry Biocide Packaging**

Installation: **Outdoor**

Desiccant: **Dry-Gel**

Return CFM: **2,100**

Process Rotor Minimum Bypass CFM: **1,200**

Process Rotor CFM: **900** Process Air Pressure Drop: **1.19** Inches w.c.

Process Coil CFM: **2,100** Process Air Pressure Drop: **0.67** Inches w.c.

Reactivation CFM: **250** Reactivation Air Pressure Drop: **1.27** Inches w.c.

Desiccant Bed Timing Minutes/Revolution: **5m 27s**
Revolutions/Hour **11.5**

Design Conditions: Process Side of Unit

Return Air Inlet Dry Bulb Temperature	65	deg F
Return Air Inlet Grains/Lb.	43.2	gr/lb
Process Air Outlet Dry Bulb Temperature (After Rotor)	99.2	deg F
Process Air Outlet Grains/Lb. (After Rotor)	10	gr/lb
Process Air Outlet Dry Bulb Temperature (After Mix)	79.7	deg F
Process Air Outlet Grains/Lb. (After Mix)	29	gr/lb
Process Air Outlet Dry Bulb Temperature (Before Coil)	83.7	deg F
Process Air Outlet Grains/Lb. (Before Coil)	29	gr/lb
Process Air Outlet Dry Bulb Temperature (After Coil)	36	deg F
Process Air Outlet Grains/Lb. (After Coil)	29	gr/lb

Design Conditions: Reactivation Side of Unit

Reactivation Air Inlet Temperature (At dehumidifier) **285** deg F

Component Set Points

Reactivation Inlet Temp. Control **285 deg F**
- Heater designed for 200°F temp rise

Reactivation Outlet Temp. Control **165 deg F**

Issue Date: December 27, 2017



Dehumidifier Set-up Sheet

Reactivation Inlet High Temp. Limit Set Point	Manual Reset	350 deg F
	Automatic Reset	325 deg F
Reactivation Inlet Low Temp. Alarm Set Point		120 deg F
Desiccant Bed Alarm Timers		15.0 Minutes
Process in Dirty Pre-Filter Pressure Differential Switch		2.0" w.c.
Process in Dirty HEPA-Filter Pressure Differential Switch		3.0" w.c.
Reactivation in Dirty Filter Pressure Differential Switch		2.0" w.c.