



COOPER COIL COATING

OPERATION AND MAINTENANCE PLAN

PHOENIX 5000/6000 OXIDIZER



COOPER
COIL COATING, INC.

5110 140th Avenue North • Clearwater, FL 33760 • 727/535-6160 • Fax 727/531-1218

OPERATION AND MAINTENANCE PLAN

(Phoenix 5000/6000 Oxidizer)

Operating Parameters

1. The oxidizer remains in idle mode until process exhaust is started.
2. The idle mode temperature is 1200 degrees F.
3. The T-dampers transfer the process exhaust air to the oxidizer when one of the following conditions is met:
 - a. The process purge cycle is complete and the dryer HEAT ON relay is energized.
 - b. The process (web) drive has started.
 - c. The web speed has reached 10 percent.
 - d. The ink or other solvent-bearing coating has been applied to the web.
4. The oxidizer switches to the run mode when the T-damper shifts to the oxidizer. The run temperature is 1420 degrees F.
5. If the process lines are stopped, the oxidizer automatically returns to the idle mode.

Time Table for Routine Maintenance

Weekly

1. Check the airflow screens and ducting for debris.
2. Observe the burner flame through the sight port for stability.
3. Check that all guards and protection devices are installed.
4. Check for burned out indicator bulbs on the control and remote status panels.
5. Check for gas leaks in the gas train and supply line.
6. Check the cycle time of actuators and blocking valves with the test push buttons.



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Monthly

1. Check the exhaust fan drive belts for correct alignment and tension.
2. Check the tampers for correct settings and tightness. Set to the positions marked at initial start-up.
3. Lubricate the exhaust fan and combustion blower bearings according to the manufacturers' recommendations.

Semiannual

1. Check the spark igniter.
2. Clean the ultraviolet scanner lens.
3. Check the exterior of the oxidizer and equipment. Check the condition of the internal insulation, Turbomix baffles and heat exchanger. Check for signs of hot spots or leakage (sapping).

Annual

1. Check the fan and motor shafts for endplay not to exceed .005 inch. Replace the fan seals if they are leaking.
2. Check all gaskets and seals. Replace any that are broken, brittle or leaking.

Required Spare Parts

No spare parts are required on site. TEC Systems maintains an inventory of service parts.



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PREVENTATIVE MAINTENANCE FOR PHOENIX 5000 OXIDIZER

Weekly Checks	Initials	Date Completed	Next Date Scheduled
Check the airflow screens and ducting for debris.			
Observe the burner flame through the sight port for stability.			
Check that all guards and protection devices are installed			
Check for burned out indicator bulbs on the control and remote status panels.			
Check for gas leaks in the gas train and supply line.			
Check the cycle time of actuators and blocking valves with the test push buttons provided.			



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Check the dampers for correct settings and tightness. Set to the positions marked at initial start-up.			
Lubricate the exhaust fan and combustion blower bearings according to the manufacturers' recommendations.			



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Check the fan and motor shafts for endplay not to exceed .005 inch. Replace the fan seals if they are leaking.			
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Weekly Checks	Initials	Date Completed	Next Date Scheduled
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Observe the burner flame through the sight port for stability.			
Check that all guards and protection devices are installed			
Check for burned out indicator bulbs on the control and remote status panels.			
Check for gas leaks in the gas train and supply line.			
Check the cycle time of actuators and blocking valves with the test push buttons provided.			



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Clean the ultraviolet scanner lens.			
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