

# CYCLONE MAINTENANCE GUIDE

## ROUTINE MAINTENANCE SCHEDULE

### Daily Checks:

- Verify all temperature readings are within normal range
- Check for unusual vibrations or noise
- Inspect seals for leaks

### Weekly Maintenance:

- Clean cone section if material buildup detected
- Lubricate fan bearings
- Check draft pressure sensors for calibration

### Monthly Maintenance:

- Inspect inlet ducting for erosion
- Replace filters if pressure drop exceeds 100 Pa
- Test emergency shutdown systems

## COMMON FAILURE MODES

### Draft Surge:

A sudden increase in negative pressure can indicate partial blockage clearing. This may cause temporary temperature spikes. Monitor for 30 minutes.

### Sensor Drift:

Temperature sensors may drift over time. Recalibrate every 6 months.  
Typical drift:  $\pm 5^{\circ}\text{C}$  per year.

### Fan Belt Wear:

Worn fan belts cause reduced draft and inefficient separation.  
Replace belts showing cracks or 10% stretch.