M.K. Plastics CORPORATION
SERVING THE NEEDS OF MODERN INDUSTRY

Axijet® High Plume Exhaust System

OPERATION CHECK LIST / START-UP REPORT

Project Name: _____

M.K. Plastics Representative Name: _____

Axijet Fan Size #: _____

Axijet Serial #: _____

Date of Start-Up: _____

Electrical

Voltage/Cycle/Phase: _____ Motor HP: _____ Nameplate Amperage: _____

Check Max. Supply Amperage	☐	Main Supply Voltage	L1-L2		Motor Amps	L1-L2	
			L1-L3			L1-L3	
			L2-L3			L2-L3	

Operation Check List

Verify that proper safety precautions have been followed:

☐ Electrical power must be locked off.

Check fan mechanism components:

☐ Duct system complete, connections checked
☐ Check for debris in & around fan
☐ Check for free movement of fan
☐ Bearings are properly lubricated
☐ Rotate impeller by hand to verify it has not shifted during transit
☐ Check access door is secured
☐ Fan has been leveled
☐ Check fan drain for plug or valve
☐ Discharge stack installed & secured
☐ Check position of guards/weather cover to prevent rubbing
☐ Check fan/impeller overlap (see page. 6 of the Axijet IO&M)
☐ Grounding strap properly grounded (if supplied)

Check fan electrical components:

☐ Motor is wired for proper supply voltage
☐ All leads are properly grounded
☐ Motor is properly grounded
☐ Wiring checked (see page. 8 of the Axijet IO&M)

Check system accessories (if supplied):

☐ Plenum fastened to roof curb/support
☐ Check plenum drain for plug or valve
☐ Check attachment of control actuators to dampers
☐ Fan isolators fastened to fan rails
☐ Isolation/bypass dampers in place & secured
☐ Check vibration isolators spring tension & clearance

Trial "bump":

- ☐ Turn on power just long enough to start assembly rotating
- ☐ Check drive alignment & tension (see page. 8 of the Axijet IO&M)
- ☐ Run unit up to speed
- ☐ Check rotation of the wheel, make sure it is the same as indicated by the arrow marked **Rotation**
- ☐ Correct any problems which may have been found. Perform check list again until operating properly

Check hardware:

- ☐ Setscrews attaching wheel hub to shaft (checked for tightness)
- ☐ Setscrews in drive sheaves or coupling (checked for tightness)
- ☐ Nuts holding guards/weather cover (checked for tightness)
- ☐ Bolts in taper-lock bushings (checked for tightness)
- ☐ Nuts on the inlet sleeve/cone (checked for tightness)
- ☐ Nuts & bolts holding the motor (checked for tightness)
- ☐ Grease line connections (checked for tightness)
- ☐ Nuts & bolts holding the fan bearings (checked for tightness)

Note: after one week of operation, check all nuts, bolts and setscrews and tighten if necessary.

Operational checks:

- ☐ Check for excessive vibration
- ☐ Check for unusual noise
- ☐ Check for squealing (improper belt alignment/tension
- ☐ Check vibration isolator movement during operation
- ☐ Check for bearing noise
- ☐ Check if damper actuators/damper blades open & close

Note: if a problem is discovered, immediately shut the fan off. Lock out all electrical power and check for the cause of the trouble.

Check sequence of operation (if applicable):

- ☐ Cycling of fans (on/off)
- ☐ Check pressure maintenance

Comments (include problems & repairs):

_____

_____

_____

_____

_____

_____

_____

Please indicate the name of 'party' who will be responsible for equipment maintenance from this point forward:

_____

I have clearly communicated the maintenance requirements to that 'party': ☐

Technician Signature: _____ **Date:** _____