

## Dust Collection Maintenance Schedule

### Interval

#### DAILY

$\Delta P$  (Pressure Differential)

### Description

The typical  $\Delta P$  range is 0.5" to 6.0" w.c. A  $\Delta P$  reading of 6.0 or greater indicates cartridge filters will require replacement. The UAS Dust Collection System/Equipment can be operated at a  $\Delta P$  of 6.0 or greater providing ventilation is satisfactory at the process.

Blower Damper Setting

This is located at the exhaust blower assembly. The blower damper should be closed 50 to 60% when new cartridge filters are installed. A higher setting will affect the new cartridge filter life. As the filter  $\Delta P$  increases, the blower damper can be opened in 10 to 20% increments to satisfy process ventilation requirements.

Operating Air Pressure

The recommended operating air pressure for the pulse cleaning system is 90 to 110 PSIG. (A pressure gage should be located at the UAS equipment). Operating air pressure should be observed during pulse cleaning. After the activation of a pulse (pulse duration), the operating air pressure should "recover" within 10 seconds (pulse delay) to 90 to 110 psi.

Exhaust Discharge (Clean Air)

The clean air discharge should be observed. If dust emissions are occurring during system operation and/or pulse cleaning operation, the filters should be checked.

Safety Filters (Optional)

Check  $\Delta P$  (requires Magnehelic® Gage). Replace filters  $\geq 2.0 \Delta P$  for ASHRAE filters, 3.0  $\Delta P$  for HEPA filters.

## Interval

### WEEKLY

Hopper Barrels

## Description

Empty the barrels of accumulated material. The weekly interval could increase or decrease as determined by the end user. If the hopper is equipped with a slide gate, the slide gate should be open during normal system operation. The slide gate should be closed only when emptying the hopper barrel.

Check Set Points for Pulse Cleaning

Low/high set points pertain to the following equipment (excludes Magnehelic® Gage): Photohelic® Gage, Supra-View Controller. Recommended set points with new cartridge filters:

**Low Set Point:** 2.5

**High Set Point:** 3.0

As filters become “seasoned,” increase both low and high set points until pulsing stops (maintain a 0.5” deadband between both set points.)

Pulse Cleaning Operation

The pulse sequencing should be checked at the solenoid valve enclosure (located on the backside of the equipment) by placing fingers over the discharge to each solenoid valve. Pulse sequencing is left to right, with output 1 starting at the left. Observe pulse sequencing at the timerboard (each output is equipped with a LED) to determine activation of output 1. As each LED is illuminated, a pulse should be audible.

## Interval

### MONTHLY

Timerboard Settings

## Description

Check Settings:

**Pulse Duration:** 0.1 millisecond

**Pulse Delay:** 10 seconds

Number of Outs (Output): Corresponds to the number of outputs wired for to the timerboard.

Downtime Cleaning: Select DTC when  $\Delta P$  is above 6.0. Pulse duration of 0.1 millisecond is per UAS specification. Do not adjust pulse duration unless specified by UAS.

Blower/Motor

Inspection/Maintenance

Refer to manufacturer's recommendations.

For further information, including troubleshooting, refer to the owner's manuals.

**Revised 10/4/04**

# DUST-HOG® Schedule Maintenance

**DAILY**

Date:


Filter ΔP:

Blower Damper Setting:

Compressed Air Pressure:

Exhaust Discharge

(Clean Air): Safety

Filters (Optional):

**WEEKLY**

Date:


Hopper Barrels:

Check Set Points

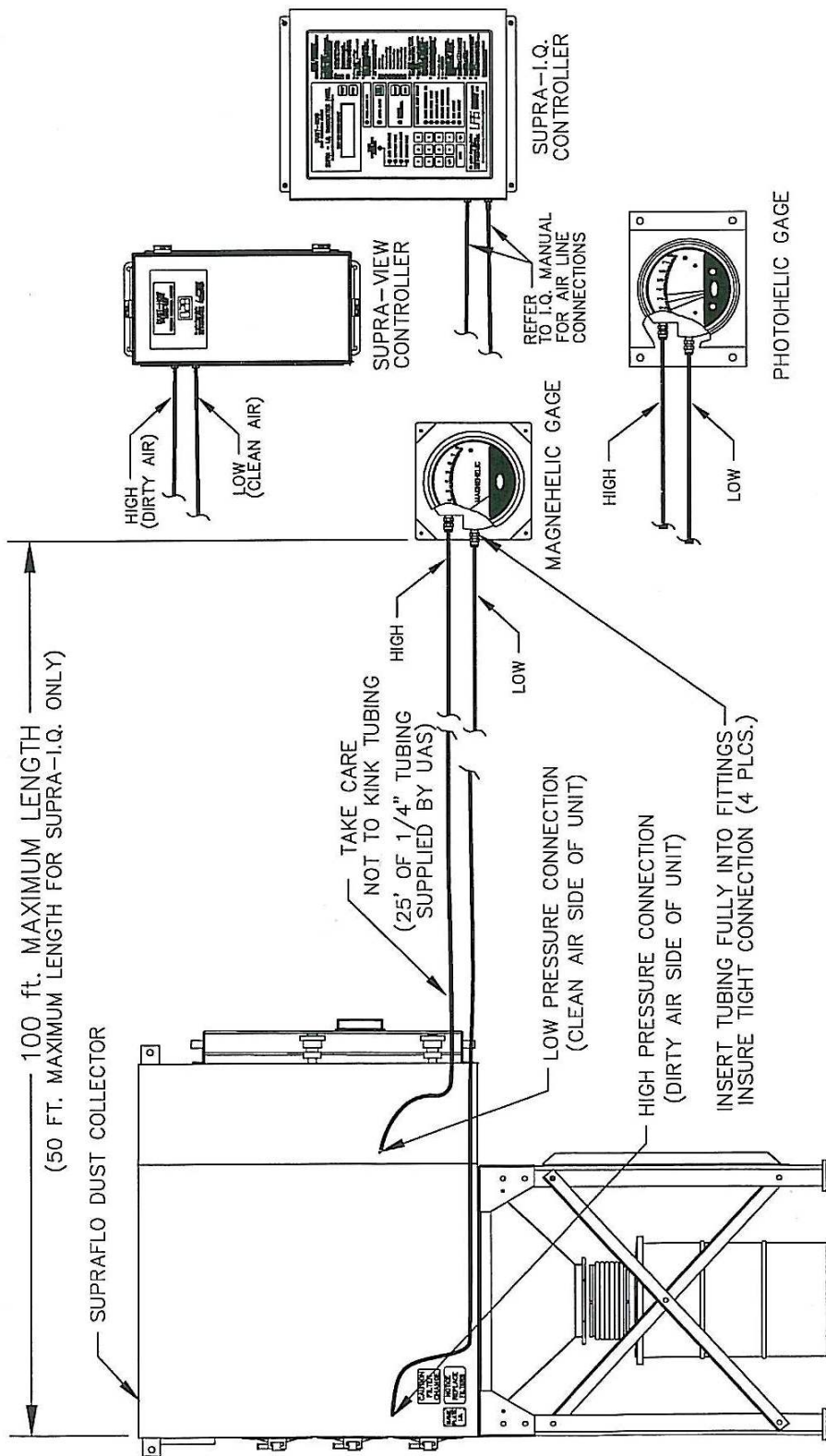
(Pulse Cleaning):

Pulse Cleaning Operation:

**MONTHLY**

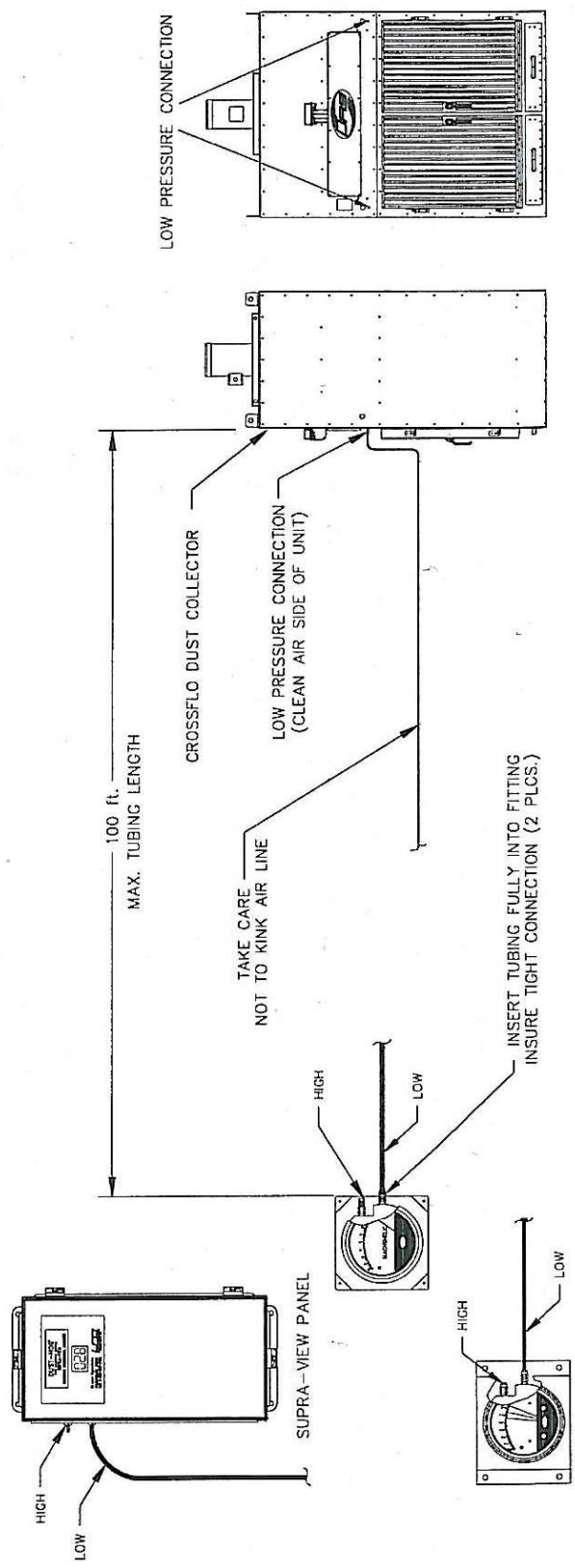
Date:


Timerboard Settings:



44-10393-0001

SUPRAFLO Pressure Gage Installation



- NOTES:
- 1.) GAGE KIT IS SHIPPED LOOSE & MOUNTED BY OTHERS.
  - 2.) TYPICAL CROSSFLO INSTALLATIONS REQUIRE THE HIGH PRESSURE PORT TO MEASURE ATMOSPHERIC PRESSURE.
  - 2.) MOUNT GAGE REMOTE FROM UNIT. PROVIDE FOR CUSTOMER VISIBILITY AND CONVENIENCE.
  - 3.) CROSSFLO DUST COLLECTOR SHOWN IS FOR REPRESENTATION ONLY.

44-10350-0001

MCB Pressure Gage Installation