



An Oshkosh Corporation Company

PJC Series Dust Collector MAINTENANCE & OPERATION
PJC-300S

OPERATION

The CON-E-CO Pulse Jet Series Dust Collectors are designed for continuous operation and cleaning.

CARTRIDGE CHAMBER

Contaminated air enters from the bottom of the cartridge chamber and flows from the outside toward the inside of the cartridges, leaving dust particles on the outside of the cartridges. Clean air exits through the top.

CARTRIDGE CLEANING

Cleaning of the cartridges is done on one row at a time. Pulse jet valves are mounted on a manifold inside the bag house and control air to the blowpipes located above the rows of pulse jet cartridges. Holes in the blowpipes centered over each bag opening direct air downward through a venturi into the bags.

Cleaning of the cartridges is accomplished by a jet of air directed downward into the cartridges. The jet of air is short duration, high velocity and directs enough air volume to reverse the flow of air for a very short time to dislodge the dust from the outside of the bag.

AIR PRESSURE

Air pressure at the manifold (located inside the baghouse) should be maintained at 90 to 100 psi. Less than 90 psi will reduce cleaning efficiency: Greater than 100 psi will cause excessive bag wear

CONTROL

The pulse jet valves are controlled by an adjustable solid state timer board. (See timer instruction for technical and programming instructions) This timer board controls several functions as described below:

ON TIME Pulse duration: Time that a pulse jet valve is open
ON TIME less than 100 milliseconds will result in ineffective bag cleaning
ON TIME greater than 200 milliseconds will result in excessive air usage

OFF TIME Time between pulses:
Reducing the "OFF TIME" will keep the bags cleaner and increase bag wear.
Increasing the "OFF TIME" will allow more dust cake and increase bag life

INITIAL SETTINGS



SOLID PRODUCTS. SOLID PERFORMANCE.
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The dust collector timer control should initially be set as shown below. These settings should give the best balance of cleaning efficiency, air efficiency, and bag life for most common applications.

ON TIME	150 milliseconds
OFF TIME	30 seconds



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