1. **Photohelic gauge:**

   Avani shipped (1) for us to drill/re-confirm the hole on the control box, and we installed this one to Fleet Readiness. The other (4) were sourced locally.

   Bob advised us how to function this. Basically, when the pressure reaches the high set point (SP2), the pulse will start pulsing. The pulse jet system continues pulse jet cleaning until the indicator goes back under SP1. During this period, the dust collector is still working. When the pressure reaches the low set point (SP1), the pulse will stop.

   Holes pre-drilled
   before shipment.

   SP2: starts pulse
   SP1: stops pulse

2. **Timer Clock:**

   A clock that tells how many hours the motors have been running and a lighted switch (the **ON** button) that indicates the motor is running (it gets a signal from a sensor that indicates the motor is running).

   The clock allows four digits the max, units hours. It will display like:
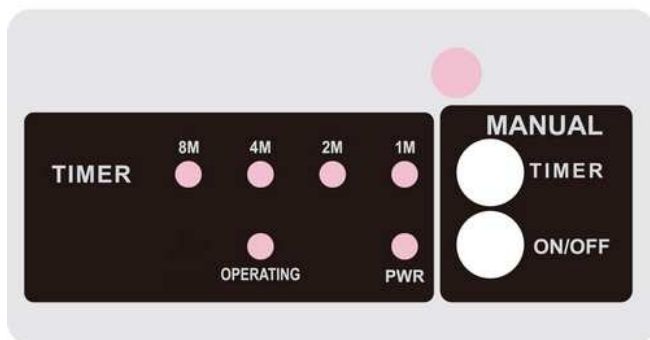

   9 9 5 9 (unit: hours)

   manufacturer: OMRON
   model number: H5CX

3. **IC board:**
   manufacturer: SmartVent
   model number: SV-ICB-01-A0004

8M/4M/2M/1M: Time setting indicating light (accumulated function)

TIMER: Time adjusting button

ON/OFF: ON / OFF button

PWR: Power indicating light

OPERATING: Operation indicating light

(Y) **:** Manual air pulse jet cleaning button

◯ **:** Overload
OV

Accumulated Function:

1. When operating, timer will automatically set to release air in every 1 minute.
2. Press TIMER once, the time setting light will be switched to 2M. Press it one more time, both 1M and 2M lights will be on, so the time is accumulated to clean in every 3 minutes.
3. Press TIMER again, the time setting light will be switched to 4M.
4. Press it one more time, both 1M and 4M lights will be on and the time is accumulated to clean in every 5 minutes. Press it again, both 2M and 4M lights will be on and the time is accumulated to clean in every 6 minutes. Press it again, the 1M, 2M and 4M lights will be on and the time is accumulated to clean in every 7 mins.
5. Following this cycle, the time setting may be adjusted manually to 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 and 15 mins. The maximum allowance time setting would be 15 mins.

Pulse Cleaning Setting:

Timer Operation (Accumulated Function)				
Pulse Frequency	**8M**	**4M**	**2M**	**1M**
ON				●
1			●	
2			●	●
3		●		
4		●		●
5		●	●	
6		●	●	●
7	●			
8	●			●
9	●		●	
10	●	●		
11	●	●	●	●

The IC board controls air pulses started after (5) mins when machine stops operation. It has memory function with continuous power supply. Below illustration is how it works when the IC board is set to release air at every 2 minute.

machine offline   1st pulse   2nd pulse   3rd pulse

5 min intervals   2 min intervals   2 min intervals

enough time allows for impeller to stop completely

0   5   7   9

pulsing time: mins