

Important:

This manual contains specific cautionary statements relative to worker safety. Read this manual thoroughly and follow as directed. It is impossible to list all the hazards of dust control equipment. All persons involved with the equipment or systems should be instructed how to operate in a safe manner.

MICRO AIR®

WC1200

MODEL WC1200 SPECIFICATIONS

INPUT VOLTAGE: 208-230V / 460V 60Hz 3 Phase

MAXIMUM CURRENT:

2HP 208V: 5.6 Amps 230V: 5.0 Amps 460V: 2.5 Amps

SUMP OPERATING LEVELS:

Low: 10.5" (motor off) High: 11.5" (motor off) Note: Sump low level alarm interlock is set for 10.0" (motor off) and can't be adjusted. Overflow drain: 13.0" Maximum sump level: 15.5"

MOTOR:

2HP 3 Phase 3450 RPM TEFC, Washdown rated

OVERALL DIMENSIONS: Base Unit: 63" H x 30" W x 40" D

PACKAGE CONTENTS:

- 1 Ea. WC1200
- 1 Ea. Owners Manual
- 1 Ea. Sludge Removal Tool



INSPECTION:

The Micro Air unit should be inspected for any visible damage that may have occurred during shipment. Note any damage on the packing slip.

EQUIPMENT/TOOLS REQUIRED:

- Forklift
- Screwdrivers
- Drill & 1/2" Drill Bit
- Concrete Anchors
- Pipe Wrench

ASSEMBLY OF UNIT:

Determine the location where the air cleaner is to be installed. Be sure to allow sufficient room around the unit to service the sludge collection bin, allow for inlet and offgas ducting. When selecting a location consider the floor surface; it needs to be smooth and level.

- 1. Uncrate the air cleaner. Use caution not to damage the paint while dismantling the crate.
- 2. Using a forklift, lift the air cleaner off the skid.
- 3. Carefully place the air cleaner into it's location.
- 4. Bolt the air cleaner to the floor in it's final location using the provided holes in the skid rails (Fig 1).
- 5. Connect the fill control valve to water source (1/2" NPT).
- 6. Connect the offgas vent pipe to offgas vent ducting as required by local/state/national codes.
- 7. Make electrical connections as shown in the wiring diagram.
- 8. Check the blower for proper rotation direction. If the blower rotates backwards, interchange two of the motor supply connections (L1 and L2).

SUMP LEVEL SET-UP:

- 1. Shut off water supply to the flow control valve.
- 2. With the motor off manualy fill the sump to 10.5" in depth.
- 3. Start the Wet Collector and let run 1 minute.
- 4. Observe the Digihelic reading and record the average pressure.
- 5. Stop the Wet Collector.
- 6. Manualy fill the sump to 11.5" in depth.
- 7. Start the Wet Collector and let run 1 minute.
- 8. Observe the Digihelic reading and record the average pressure.
- 9. Stop the Wet Collector.
- 10. Compare the Values:
 - a. If the value in step 4 is more than 10% different from 2.25, use the value from step 4 as the SP1L setting (see sump level control pg 3).
 - b. If the value in step 8 is more than 10% different from 3.75, use the value from step 8 as the SP1H setting (see sump level control pg 3).
 - c. If the value for 10.b is changed, increase or decrease ALHI by the same amount (the factory set-point is 5.50).
- 11. Turn on the water supply to the flow control valve.



All electrical work must be done by a qualified electrician according to local, state and national codes.

OPERATION:

Starting and Stopping:

- 1. To start the unit press the button labeled START.
- 2. To stop the unit press the button labeled STOP.

Sump Level Control:

The level of the sump is controled by measuring the static pressure across the water in the "Digi-Helic" controller. Factory settings for the static pressure are 2.25 In. W.C. for SP1L, 3.75 In. W.C. for SP1H and 5.50 In. W.C. for ALHI. These static settings will set the sump level to operate in the 10.5" to 11.5" depth range (measured when the unit is off), and turn the motor off if the sump reaches 13.0" in depth. The static pressure settings signal the fill valve when to open and close. By adjusting the SP1L and SP1H the level of the sump can be controlled.

- 1. Lowering the value of SP1L will cause the sump level to reach a lower level before refilling.
- 2. Raising the value of SP1H will cause the sump level to reach a higher level before stopping filling.

To adjust the values for SP1L, SP1H or ALHI:

- 1. Press "SP/AL" button untill "X.XX SP1L" is displayed.
- 2. Press "E" button.
- 3. Press arrow keys to adjust "X.XX" to the desired value.
- 4. Press "E" button.
- 5. Press "Menu" button.

Fill Valve Operation:

The fill valve is normally closed and only open when signaled from the "Digi-Helic" and if the motor has been running for longer than 30 seconds. In the event of a loss of power the fill valve is designed to remain in the closed position.

Interlocks:

Low level and motor running N.O. interlocks are provided in the control box of the unit to interface with the controller of the dust producing equipment. When the wet collector is operating properly under normal conditions the interlocks are in the closed position.

GENERAL MAINTENANCE:

- 1. No lubrication is required for the motor because it is a permanent pre-lube design. Excessive dirt should be periodically removed.
- 2. The sludge collection sump should be raked with the provided tool as required.
- 3. When cleaning out the collection sump examine the air intake and baffles for material buildup.
- 4. Use of biodegradable additives will help in containing any odor that may be caused from the water being inactive over long periods of time.

CHANGING FILTERS:

▲ CAUTION: Always make sure that the unit is turned off before changing filters or servicing the unit.

- 1. Remove the door from the front of the unit.
- 2. Remove the filter from the filter track.
- 3. Rinse the mist eliminator filter thoroughly with water, shake dry and replace in the unit.
- 4. Start the unit.

OPTIONAL HEPA AFTER FILTER:

- 1. Remove the bolts and washers from the exhaust grille.
- 2. Remove the exhaust grille.
- 3. Place Hepa filter support, Hepa filter and Hepa filter enclosure on top of the exhaust grille.
- 4. Align the holes of the Hepa filter enclosure with those on the blower cabinet.
- 5. Insert bolts and washers and tighten until secure.

WC1200



WC1200 CONNECTION DETAIL

WC1200

MICROAIR® CLEAN AIR SYSTEMS



208/230/460 Volt Wiring Diagram

WC1200





ITEM	PART NO.
	P2586
2	34530-02
3	P2583
4	P2584
5	P2574
N/S	P2582
N/S	P2585
N/S	P2573
N/S	P2571
N/S	34532-01

WC1200 PARTS LIST DESCRIPTION

2 HP Motor
Motor Mounting Plate
Blower Housing
Blower Inlet Plate
Offgas Damper
Blower Wheel
Mesh Filter
Fill Valve
Low Level Float Switch
Sludge Scoop