

MICROCON® WallMAP™

Instruction & Service Manual

UNPACKING & ASSEMBLY INSTRUCTIONS

1. Remove unit from shipping container being careful not to damage face of filter.
2. Unit comes fully assembled and is ready to install.
3. The HEPA filter keepers, must be aligned with the draw latches on the WallMAP.
4. Secure the filter in place by locking down the four latches. Do not force.
5. Four (4) stainless steel brackets are fastened to the back panel. This is done for shipping purposes. To fasten the unit to a wall, remove the four brackets and allow them to extend from the unit. Replace bolts in place. The rear panel alignment is critical to the impeller clearance and, without the bolts reattached, will allow the panel to flex and possibly cause the impeller to become misaligned.

UNIT PLACEMENT DETERMINATION

The most effective positioning of the unit is where it creates an air barrier between two individuals. This allows for a constant draw of contaminated air away from the breathing zone. Example: If used in a consultation room, placement on a wall next to a desk where two people are facing each other is preferred. In general air cleaning application, it should be positioned where there will be the fewest obstructions to the airflow.

ATTACHMENT TO WALL

1. The WallMAP can be attached to a flat vertical surface using proper fastening devices.
2. The space between the brackets conforms to standard building stud placement of 16 inches on center. By locating the studs in a wall, you can securely fasten the unit in place.
3. If the studs don't properly align, you can use anchor bolts or molly bolts to secure the unit.
4. The WallMAP weighs about 26 lbs. so make sure the fastening devices can support the weight and not pull away from the wall.

ATTACHMENT TO CEILING

1. The WallMAP can also be suspended from the ceiling.
2. Fasten to ceiling in similar manner as you would fasten to a wall or suspend using proper weight wire.

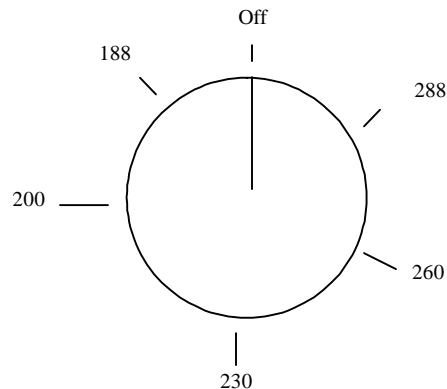
NOTE: Unit will cause some minor vibration when operating which can transfer to the mounting surface. Take this into consideration when fastening so unit won't work its way loose from wall over time. Attach small rubber bumpers between rear of unit and the mounting surface to help absorb and diffuse any vibration.

OPERATION

1. Never block air intake or exhaust vents. Allow adequate space around unit to properly exhaust.
2. The unit is equipped with a variable volume speed control. This increases or decreases the speed of the fan which determines the volume of air delivered.
3. By determining the volume of air within the room, (multiply width X length X height of room = cubic feet) you can properly adjust the speed to provide the required number of air changes to occur.

SPEED CONTROLS

The MICROCON WallMAP is provided with a variable speed control. This allows operation at various settings, up to 288 cfm or as low as 188 cfm. The following cfm settings are obtainable at the following positions:



Minihelic Gauge: Each MICROCON WallMAP is equipped with a minihelic gauge. This is a pressure differential gauge that measures the static pressure or resistance on the filter. This is measured in inches of water (W.G.). This gauge will indicate when the filters require replacement. Filter pressure builds as the filters become loaded and clogged with particulate. Airflow capacity is diminished as pressure increases.

CHANGING FILTERS

(Part No. PF-022 12/BX)

PREFILTER: (Average replacement once every 2-3 months of constant use.)

1. Your WallMAP is equipped ,with a prefilter. This acts as a roughing filter, taking out the larger particulate in the air thereby extending the life of the HEPA filter.

Since your WallMAP is equipped with a variable speed fan, it is suggested you determine filter loading by running unit at the highest setting, as a benchmark. (You can determine your own point of reference as long as the set point is always consistent.) The high setting is always the easiest to set. Record pressure reading on filter label, with prefilter in place. Whenever pressure reading increases .10" (1/10th of an inch) replace prefilter. The new prefilter, will reduce the reading since it provides less restriction to the HEPA than the dirty filter.

2. It is recommended that the unit be left running when changing the prefilter. When replacement is required, remove the black epoxy screen, place a large plastic bag over the whole unit and grasp the prefilter with the plastic bag drawing the filter into the bag as it is removed. This prevents anyone from coming in direct contact with the prefilter during maintenance procedures. Allow the unit to remain running at a high speed to capture any particulate that may become dislodged while removing the prefilter.
3. Once prefilter has been removed, tuck new prefilter into front void of HEPA frame. Prefilter is cut slightly oversize to provide an overlapping seal around edge. .

HEPA FILTER: (Average replacement once every 12-24 months-- depending on use and conditions. (Part No. HL-022)

Note: Used HEPA filter – Treat as Contaminated Substance.

Using same procedure as mentioned above, measure periodically the HEPA filter's pressure. Normally when it approaches 1.25", it is time to replace it.

1. When replacement of the HEPA filter is required, first remove the black epoxy screen. The prefilter should probably be renewed at the same time, so leave it in place. Place a plastic bag over the entire unit encapsulating the filter elements. Unfasten the four draw latches and remove filter from cabinet while still inside bag. Seal off open end of plastic bag and dispose of in proper manner.
2. Once the used HEPA filter has been removed, place new filter on face of cabinet aligning black keeper ,with corresponding draw latch.

NOTE: Filter media is very fragile and will damage easily. Do not place hand on media face. By working with a new prefilter on the HEPA filter's face, it should allow the filter some protection.

Keeper should "seat" on edge of latch providing proper alignment. Once all four keepers are perfectly aligned and seated, proceed to lock down latches. Do not force latch closed or you will damage the unit. Re-inspect each keeper if resistance to closure is encountered.

NOTE: Both filters are designed to be disposed. They are not washable or cleanable and should not be reused.

ORDERING REPLACEMENT PARTS: When ordering replacement filters, the following part numbers should be referenced: a) Synthetic Prefilters - PF-O22 (12/BX); b) HEPA Filter - HL-O22.

CLEANING

1. Use of a mild detergent or glass cleaner will work on the stainless steel cabinet.
2. The filter frame can also be cleaned since it is a laminated plastic surface, and any suitable household cleaner will work.
3. Disinfectants can be used on any surfaces (except filters), if required.
4. The black epoxy screen can be washed, if necessary.
5. The prefilter is disposable and cannot be cleaned. It must be removed and replaced ,when necessary.
6. The HEPA is also disposable and cannot be cleaned. Never expose the HEPA filter face area to any liquids or detergents which will damage the media. Care should be taken not to damage the media pleats during any maintenance procedure.

RETURNING UNITS TO FACTORY

Before shipping any component to the factory, a Return Material Authorization (RMA) must be issued for units under warranty. For units out of warranty, a written purchase order must be issued to Biological prior to return. The factory will NOT accept and will refuse any merchandise returned without proper authorization. Factory is not responsible for any damage to the merchandise during return shipping. **DO NOT RETURN ANY CONTAMINATED FILTERS TO THE FACTORY.**

LIMITED WARRANTY

Biological Controls Inc. (BCI) warrants to its purchasers that all products sold by it will be free of manufacturing and material defects. Any defective product will be replaced, free of any charge if a claim is brought to BCI's attention in writing, within ONE year following the date of shipment by BCI. BCI will not be responsible for any installation costs involved in such replacement. Replacement will include shipment cost within the continental United States. This warranty is IN LIEU OF any other warranty, express or implied, including, but not limited to, any implied **WARRANTY OF MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.** BCI's liability under this warranty is limited to replacement and does not include any responsibility for incidental or consequential damages of any nature.

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