

Halton Mobichef

– Installation, Operation & Maintenance Guide



Filtration Unit

1. Mechanical double stage pre-filtration – KSA cyclonic filters & mesh filters (>95% at 10um)
2. Additional disposable pre-filter (EU5, F5 class) to ensure high efficient pre-filtration
3. Compact cleanable ESP filter – elimination of fine particles
4. Absolute filter – extremely efficient on removal of ultra fine particles (>95% at 0.3um)
- 5&6. Double stage carbon filtration for efficient odour treatment via an optimized carbon blend

Filter lifetime of the Prefilter, Electronic Air Filter, HEPA and Carbon Filters is monitored and displayed on the touch screen and the filters must be replaced once the remaining life time reaches 0.

It is recommended to wash/clean the Electronic Air Filter at the same interval as the Prefilter is being replaced.

Halton MobiChef - Preliminary Filter Maintenance Schedule

Filter type	Units in Mobichef	Units per Year, Light	Units per Year, Medium	Units per Year, Heavy
KSA & Mesh	2	Wash Daily	Wash Daily	Wash Daily
Pre Filter	1	6	12	24
EAF Electronic Air Filter	1	Washable	Washable	Washable
HEPA Filter	1	1	2	3
Carbon Blend Filter	4	1	2	3
Carbon Blend & Particle Filter	1	0.5	1	4

Electronic Air Filter – Service & Maintenance

Cleaning the Cells and Metal Mesh filter

To assure optimum performance from the air cleaner, the cells and metal mesh filter must be cleaned regularly. Washing frequency will vary depending on the cooking duty and operating hours.

Filter loading will be monitored and displayed on the touch screen and respectively the cells and metal mesh filter must be cleaned.

It is recommended to wash the cells and metal mesh filter in the same time once the pre filter of the unit will be replaced.

Washing Detergent

Use regular dishwashing detergent which is alkali based.

Never use acidic based washing detergents as this will harm the aluminum cells.

CAUTION

Sharp edges can cause personal injury.

Carefully handle the cells or wear protective gloves to avoid cuts from the sharp metal edges.

Automatic Dishwasher

CAUTION

Burn Hazard can cause personal injury.

Allow the cells to cool completely in the dishwasher at the end of the wash cycle or wear protective gloves to avoid burns. Hot water can accumulate in the tubes supporting the collector plates. Tip the cells so these tubes will drain.

Cleaning Instructions:

To ensure ongoing performance, the Halton Mobichef needs to be cleaned regularly.

WARNING!

Ensure that the unit's power supply has been turned off before starting any maintenance operation. Ensure the cooking equipment is turned off and has sufficiently cooled down before starting any cleaning operation. Never use harsh or abrasive detergents on any stainless steel parts. Do not use chlorinated water or bleach. Use mild soap or neutral cleaning product.

- 1) **Clean the Work surfaces and Floor area** – immediately after each use to ensure the work area remains hygienic and safe.
- 2) **Clean the Glass and exposed surfaces. - daily or as required.**
 - a. Wipe surfaces and down lights with warm soapy sponge.
 - b. Avoid squeezing excess water into the capture jet holes.
 - c. Use stainless steel cleaner sparingly on discoloured areas.(see product instructions for use)
 - d. Wipe several times with a clean wet cloth to ensure all traces of cleaners have been removed
 - e. Wipe surfaces with soft dry cloth or Chamois.
- 3) **Remove and clean the grease collection tray - weekly or as required.**
 - a. Tray is located at the bottom of the unit
 - b. Slide tray our carefully to avoid spilling collected oil
 - c. Empty oil into used oil recycling bin
 - d. Wash tray with warm soapy water (or pass through dishwasher).
 - e. Slide tray into position.
- 4) **Clean Primary Filters - Daily or as required**
 - a. Remove the Primary KSA Cyclone filters at the end of each day's use.
 - b. Inspect the inside of the exhaust plenum and the mesh filters.
 - i. If the mesh filters appear dirty remove them also for washing (these should be washed at least weekly)
 - ii. If the plenum has visible oily deposits wipe them clean using a warm soapy cloth and then soft dry paper towels.
 - c. The filters can be easily cleaned with a brush in a sink of warm soapy water or put through a dishwasher or steam cleaner.
- 5) **Inspect & Clean the Secondary Filters – Weekly or as required.**
 - a. Inspect the Touch panel for Filter Status.
 - b. Turn of the power supply to the cooking equipment.
 - c. Roll the equipment cassette out of the Mobichef.
 - d. Use the key to unlock & remove the access panel.
 - e. Inspect the plenum and wipe it clean if required.
 - f. Remove and clean the ESP if required (See instructions for cleaning the Electronic Air Filter (ESP).
 - g. Remove and replace the pleated filter if required.
 - h. Filter lifetime of the Pleated filter, HEPA and Carbon Filters is monitored and displayed on the touch screen and the filters must be replaced before the remaining life time reaches zero "0". Remove and replace these filters if required.

General filter maintenance & replacement schedule:

Instructions for Cleaning the Electronic Air Filter (ESP).

IMPORTANT

- Check the dishwasher owner's manual. Some manufacturers do not recommend washing electronic cells in their dishwashers.
 - If the dishwasher has upper and lower arms, position the cells carefully to allow good water circulation.
 - Be careful to avoid damaging the cells when placing them in the dishwasher. Broken ionizer wires or bent collector plates are not included in the warranty.
 - Very dirty cells, especially from tobacco or cooking smoke, can discolor the plastic parts and the lining
 - of some dishwashers. This discoloration is not harmful. To minimize it, wash the cells more frequently or try a different brand of detergent.
 - Do not allow the dishwasher to run through the dry cycle. This will bake on any contaminants not removed during the wash cycle and reduce air cleaner efficiency.
1. Put the cells on the lower rack of the dishwasher with the airflow arrow pointing up. It may be necessary to remove the upper rack. Do not block water flow to the upper arm.
HINT: Lay a few large water glasses between the spikes on the lower rack and rest the cells on them so the spikes do not damage the aluminum collector blades.
 2. Using regular dishwashing detergent, allow the dishwasher to run through the complete wash and rinse cycle. Do not use the dry cycle. To avoid burns, let the cells cool completely before removing, or wear protective gloves when removing the cells. Remember that water may be trapped inside the cells. Tip the cells so the tubes can drain.
 3. Wipe the ionizer wires and contact board on the end of the cell using thumb and forefinger with a small, damp cloth.
 4. Inspect the dishwasher. Rerun the wash and/or rinse cycle with the dishwasher empty if there is dirt or residue from washing the cells. If dirt or residue seems excessive, wash the cells more often or try a different detergent.

Washing the Cells in a Container

CAUTION: Hazardous chemical can cause personal injury.

- Do not splash the detergent solution in eyes. Wear rubber gloves to avoid prolonged detergent contact with skin.
- Keep detergent and solution out of reach of children.

NOTE: Always wash the cells first, then the prefilter, to keep heavy prefilter lint from getting caught in the cells.

1. Use a large enough container, such as a laundry tub or trash container, to hold one or both cells. NOTE: Sharp corners on the cells can scratch the surface of a bathtub.
2. Dissolve about 3/4 cup of automatic dishwasher detergent per cell in enough hot water to cover the cells. If the detergent does not dissolve readily, or forms a scum on the water, try another brand, or use softened water.
3. After the detergent has completely dissolved, place the cells in the container and let soak for 15 to 20 minutes. Agitate up and down a few times, and re-move. See Fig. 20.

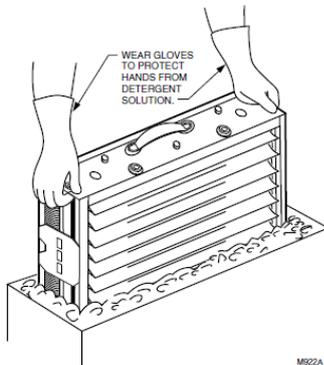


Fig. 20. Washing cells in container.

4. Next, wash the prefilter the same way. Empty and rinse the wash container.
5. Rinse the cells and prefilter with a hard spray of very hot water; rinse the tub clean, then fill the tub with clean hot water and soak for 5 to 15 minutes. Rinse until the water draining from the cells and prefilter no longer feels slippery.
6. Soak cells and prefilter in a final clear water rinse for ten minutes.
7. Wipe the ionizer wires and contact board on the end of the cell using your thumb and forefinger with a small, damp cloth.

Reinstall the Cells and Prefilter

1. Inspect the cells for broken ionizer wires and bent collector plates. Repair as necessary or take to a Honeywell Authorized Air Cleaner Repair Station.
2. Slide the prefilter into the upstream prefilter guides.
3. Slide in the air cleaner cells so the airflow arrow points downstream and the handles faces outward.
4. Firmly close the access door.
5. Turn on the air cleaner. If the cells and prefilter are wet, the neon light may not come on and you may hear arcing. If the arcing is annoying, simply turn off the air cleaner for two to three hours or until the cells is dry.
6. If the air cleaner has a Remote Performance Indicator, the FAULT indicator may activate when the cells and prefilter are wet. Again, if the FAULT indicator is annoying, simply turn off the air cleaner for two to three hours or until the cells and prefilter are dry.

Replacing Ionizer Wires

Broken or bent ionizer wires can cause an electrical short to ground, often resulting in visible arcing or sparking. Do not use cells until broken wires are removed. Cells can be used temporarily with one wire missing, but replace the wire as soon as possible. Replacement wires are supplied cut to length with eyelets on both ends for easy installation.

To install:

1. Hook the eyelet on one end of the wire over the spring connector on one end of the cell. Be careful to avoid damaging the spring connector or other parts of the cell.
2. Hold the opposite eyelet with needlenose pliers and stretch the wire the length of the cell. Depress the opposite spring connector and hook the eyelet over it.
3. Check the cell for short circuits using an ohmmeter. Check the resistance between the frame of the cell and both the ionizer and the collector contacts. In each case, the resistance should be infinite. See Fig. 22.

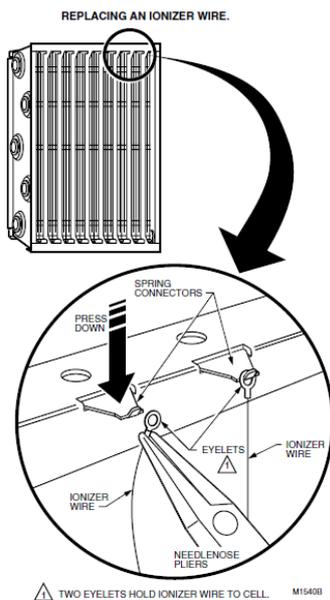


Fig. 22. Replacing an ionizer wire.

**For Halton's national sales & support network,
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