

# Scotsman®

## AC/EC Self Contained Cuber

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### Cleaning & Sanitizing Procedure

Hubbard Systems – 01473 350045

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Note - This document is to give the preferred instruction as to how cleaning and sanitising of the self contained ice machine is completed. This does not replace the instruction given within the full service manual, but to assist and supplement it.

Cleaning should only be undertaken by competent or trained personnel.

**Note - Good hygiene working practice should be undertaken before and during any cleaning regime.**

## Cleaning Schedule

**WARNING:** Before carrying out any cleaning operation, please ensure that the ice maker is disconnected from the electrical supply.

**NOTE** – If external stainless steel panels are not cleaned regularly, brown stains could begin to show. It is important to prevent these brown stains forming on these stainless steel surfaces otherwise there is a risk of a chemical reaction which could penetrate the chromium oxide film, this could result in a 'rust' and 'pitting' of the panels.

Do not use abrasive products, such as steel wool pads, acids etc. Since these could damage the various surfaces. In case of persistent stains, normal abrasive detergents or products specific for stainless steel are readily available on the market.

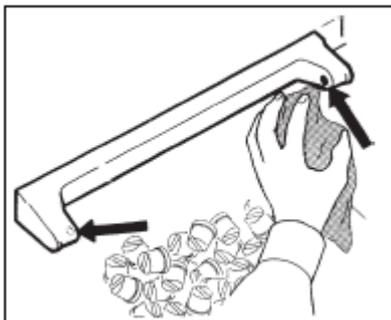
### Suggested Weekly Cleaning.



Pull out the removable condenser air filter on the front of the machine, vacuum to clean or wash in clean water and dry, refit it in to the runner moulding once complete.

Wipe all external stainless steel panels & front panel assembly with a soft cloth and suitable sanitising solution (Or pre-impregnated sanitizing wipes specific to the task).

Empty/Scoop out all the ice cubes stored into the bin in order to prevent them from being contaminated with the cleaning solution used.



Wipe clean and rinse the inner surfaces of the storage bin using an appropriate sanitising product along with the cleaning of the ice level sensor lenses on the inside of the unit storage bin.

## **Suggested Monthly Cleaning Procedure:**

Follow the above procedure for 'Weekly cleaning' and also include the following.....



4. Remove the plastic cap & spring located on the bottom of sump/freezing chamber to drain out all water and scale deposits. (On the AC/EC 206 & 226 remove the plastic sump cap in the storage bin)



5. Lift up and remove the curtain. (No curtain is fitted on the AC/EC 206 & 226)



*AC/EC 46 through 176*



*AC/EC206 & 226*

6. Lift up the entire spray platen from its bottom seat/spigot and take out to clean it separately.

7. Pour fresh water into the bottom of the sump/freezing chamber to clean out any build up of scale deposit present.

8. Following removal & cleaning, soak all components in a mix of sanitising solution in a suitable container to hold all items. Rinse thoroughly after ten minutes.

9. Install again the spray platen, the curtain, as well as the bottom plastic cap.

***If the water system is to be sanitised, it is to be completed as per the preferred instruction further down this document (Page 6)***

## **Quarterly & Bi-Annual - Cleaning/Sanitising Procedure.**

### **CLEANING/SANITISING INSTRUCTIONS OF WATER SYSTEM**

Clean/Sanitise the water system, evaporator, bin and spray jets using a solution of a suitable Ice Machine Cleaner/Sanitiser.

**NOTE.** Cleaning requirements vary according to the local water conditions and individual user operation. Continuous check of the clarity of ice cubes and visual inspection of the water spraying parts before and after cleaning will indicate frequency and procedure to be followed in local areas.

1. Remove the front and top unit panels to gain access to both the control box and the evaporator section.
2. Make sure that all ice cubes have been released from their cups after a harvest, then switch OFF the machine at the front master button switch (green) visible through the front panel.
3. Empty/Scoop out all the ice cubes stored in the bin of the unit.



4. Remove the plastic cap & spring located on the bottom of sump/freezing chamber to drain out all water and scale deposits. (On the AC/EC 206 & 226 remove the plastic sump cap in the storage bin)



5. Lift up and remove the curtain (No curtain is fitted on the AC/EC 206 & 226)



AC/EC 46 through 176

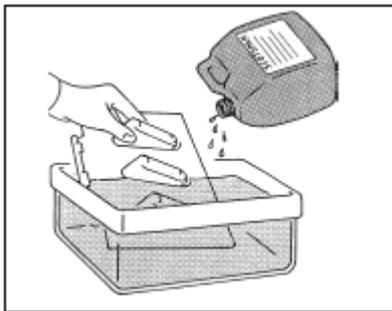


AC/EC206 & 226

6. Lift up the entire spray platen from its bottom seat and take it out to clean it separately. The spray bar on the 206/226 is located onto a spigot in the sump area.
7. Pour fresh water into the bottom of the sump/freezing chamber to clean out any build up of scale deposit present.
8. Install again the spray platen/spray bar and the curtain as well as the bottom plastic cap.

### Cleaning

9. Prepare the cleaning (descaling) solution by diluting into a container, warm water (hand hot !!) with a quantity of Ice Machine Cleaner based on 10% dilution rate (ie – 5 litres of water, 500ml descaling acid).



**WARNING. The Ice Machine Cleaner/Sanitiser contain harmful fluids. Please refer to any supplied MSDS document issued for handling of fluids. KEEP OUT OF THE REACH OF CHILDREN.**

10. Remove the plastic evaporator cover slowly pour onto the evaporator platen the cleaning solution. With the help of a brush, dissolve the most resistant and remote scale deposits in the platen.
11. Switch ON again the machine at the front master button switch, push the PC BOARD PUSH BUTTON for more than 2" and less than 5" to put the machine in cleaning mode. ALL LED's should begin flashing to indicate the clean mode.

**NOTE.** With the system in CLEANING/RINSING mode, the water pump is the only component in operation to circulate the cleaning solution in the entire water system while the three leds of the PC Board are blinking.

12. Let the unit remain in the **CLEANING** mode for about 20 minutes then turn off/unplug again the machine.

**NOTE.** The amount of Cleaner and the time needed for the cleaning of water system depends on the water conditions locally.

13. Ensuring that the unit is isolated at the master button switch, flush out the cleaning solution from the sump reservoir by taking off the sump plastic cup. Once flushed out, install again the sump plastic cap.

14. Pour over the evaporator two or three litres of clean potable water to rinse the mold cups and the evaporator platen.

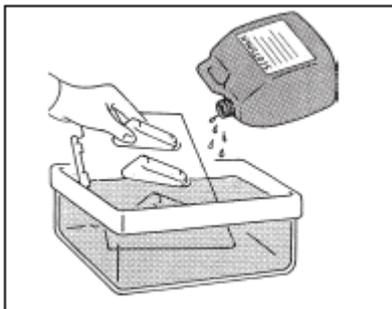
15. Switch ON again the electrical supply to the machine. With the machine in 'clean mode' the water pump is again in operation to circulate the water in order to then rinse the entire water system. Repeat this operation as per steps 13 and 14 twice more so to be sure no traces of descaling solution remain into the water sump area.

## **Sanitising**

**NOTE. Sanitising** of the water system is recommended to be done **once a month**.

1. Prepare in a plastic container the preferred sanitation solution as per manufacturer dilution using warm water (hand hot !!!) – approx a 10% ratio is suggested.

**NOTE. Never mix the descaling solution with the sanitising solution.**



2. Follow the procedures as per cleaning (from item 10 to item 14) just shortening the operation of the water pump 'clean/rinse mode' to 10 minutes for sanitising.

3. Place again the evaporator cover and the unit service panels.

4. At completion of the freezing and harvest cycle make sure of proper texture and clearness of the ice cubes and that, they do not have any acidic taste. Allow the unit to make 2 further batches of ice to then discard.....

**ATTENTION. In case the ice cubes are cloudy-white and have an acidic taste, melt them immediately by pouring on them some warm water. This to prevent that somebody could use them.**

5. Wipe clean and rinse the inner surfaces of the storage bin along with the cleaning of the ice level sensor on the inside of the unit storage bin before resuming normal ice making operation.

**Hubbard Systems offers suitable product for the use for cleaning & sanitizing of all ice dispensers, please call 01473 350045 for further detail and the appropriate MSDS data sheets.**