Foster Bottle Water Cooler Cleaning Procedure.

Cooler Sanitisation General Principles.

Cooler sanitisation is a vital part of the hygienic maintenance of bottle water coolers.

What is Sanitation?

Sanitation is the process of **cleaning** followed by **disinfecting**.
It must cover: -

- The cooler exterior
- Drip tray.
- Water safe system.
- Internal water separator.
- Reservoir and pipework.
- Taps.

Disinfecting is the reduction of bacterial numbers to a safe level.

Why Sanitise?

- Surfaces coming into contact with water will build up a biofilm layer.
- Slime and taste problems may occur.
- To remove scale from the reservoir and hot tank.
- To eliminate contamination of the cooler by Pseudomonas aeruginosa and coliforms which may be picked up from the environment and from users of the machine.
- To eliminate algae.

When to sanitise?

The recommended frequency of sanitisation is once every three months.

Hot tanks.

These may need descaling from time to time but not at the same frequency as sanitisation.

Sanitisation and Descaling

Foster suggests a **simple** and **effective sanitisation** and **scaling** procedure to be undertaken every **3 months** and every time the water cooler is not used for at least two weeks.
The suggested products are very effective but they need to be used with the utmost care and moderation as they incorporate corrosive acid and alkaline components.

Sanitisation.

It is an important operation that needs to be undertaken with the greatest of care using the suggested products giving consideration to their correct usage.
The sanitisation procedure is to protect the users of the water coolers by eliminating bacterial growth.

Descaling.

It is an important operation that has to be completed at the same time as sanitisation but not at the same frequency.
Most bottled water supplied has low/medium calcium content but over time a light film of calcareous deposit could build up. This doesn't affect the quality of the water or the operation of the cooler but could harbour harmful bacteria.
It is therefore recommended that these deposits be cleared using a mild acid solution prior to sanitisation.

Operations.

- Use disposable gloves
- Wear eye protection.

Suggested Products.

Descaling agent. **PE4 SPEZIAL A.** (Made by HENKEL –ECOLAB)

Sanitising Agent. Peroxide of Hydrogen in a water solution at 140 volumes.
For example **OXONIA.** (Made by HENKEL –ECOLAB)
The above product when used correctly does not leave strange odours or tastes and is easily eliminated by thorough rinsing.
It is most important to follow the manufacturer instructions and in particular:

- Reaction times.
- Rinsing times.
- Correct measure of dilution.

Equipment.

1. Plastic water container (15 lt.) with spout for rinsing.
2. Plastic water container (20 lt.) for the waste water.
3. Reusable sprayer (1 lt.) for the diluted scale remover.
4. Reusable sprayer (1 lt.) for the diluted sanitiser.
5. Paper tissue.
6. Disposable gloves.
7. Eye protection (glasses)

Dosage.

It is suggested that a small graduated measure or syringe is used.

Scale remover.

Product. **PE 4 Spezial A**
(Made by HENKEL ECOLAB)
To be diluted in normal drinking water at 5%.

The scale remover solution can be used for as long as it lasts without deterioration provided it is stored in a sealed container.

Sanitisation.

Product. **Peroxide of Hydrogen in a water solution at 140 volumes.**
(For example **OXONIA** made by HENKEL ECOLAB).
To be diluted in normal drinking water at 3%.

The sanitisation solution can be used for no more than one week without deterioration provided it is stored in a sealed container.

BWC Range Sanitisation and Descaling.

1. Set the thermostat to the OFF position.
2. Unplug the machine from the mains electrical supply.
3. Remove the bottle, safe water system, sink and the separator. Immerse the safe water system and the separator in a vessel containing sanitisation solution.
4. Open the cold water tap and drain the water from the tank into the waste water tank (20lt.)
5. Spray the water cooler tank surface with the scale remover ensuring it is well covered.
6. Leave the descaling agent for three minutes to give maximum penetration.
7. After three minutes rinse the water cooler tank with clean water using the plastic water container (15 lt.) with spout, empty the tank as described in 1.
8. Repeat 7 for a second time.
9. Spray the water cooler tank surface with the sanitisation solution ensuring it is well covered.
10. Leave the sanitisation solution for three minutes to give maximum cleaning.
11. After three minutes rinse the water cooler tank with clean water using the plastic water container (15 lt.) with spout, empty the tank as described in 1.
12. Repeat 11 for a second time.
13. Clean the top of the cooler with a damp cloth soaked in the sanitisation solution.
14. Remove separator, sink and the water safe system from the sanitisation solution, rinse them using clean water and insert them back into the machine.
15. Clean the taps and the outside surfaces of the machine using a damp cloth soaked in the sanitisation solution.
16. Clean the cap and neck of the bottle and replace it.
17. Fill a glass three times and dispose of the water to clear any traces of the sanitisation solution.

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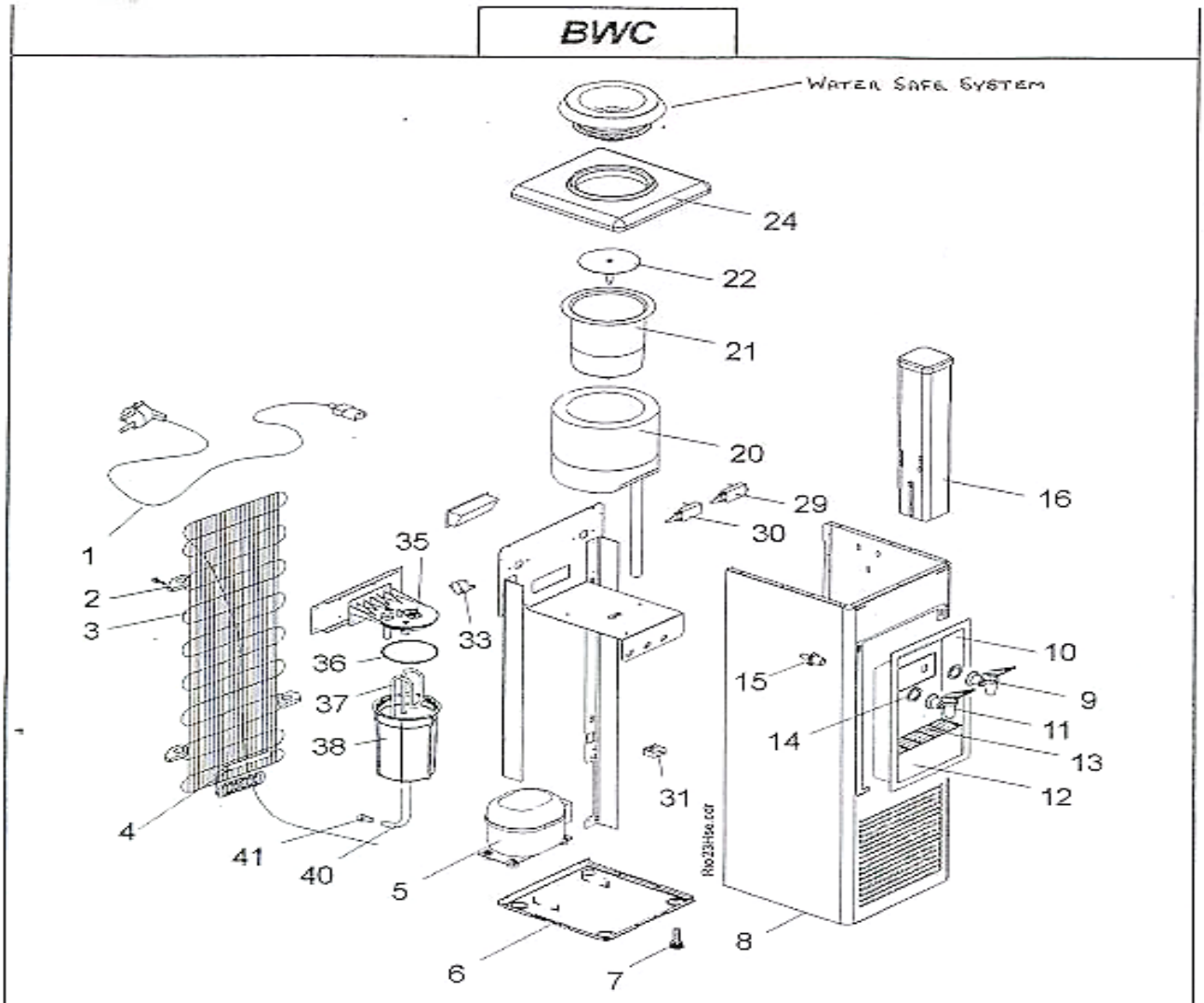

POS.	DESCRIZIONE	DESCRIPTION	POS	DESCRIZIONE	DESCRIPTION
1	CAVO DI ALIMENTAZIONE	*ELECTRIC CABLE*	21	SERBATOIO ACQUA FREDDA	*COLD WATER TANK*
2	STAFFA PER CONDENSATORE	*CONDENSER BRACKET*	22	SEPARATORE ACQUA	*WATER SEPARATOR*
3	CONDENSATORE	*CONDENSER*	24	LAVELLO	*SINK*
4	FILTRO RAME	*COPPER FILTER*	29	TERMOSTATO ACQUA FREDDA	*COLD WATER THERMOSTAT*
5	COMPRESSORE	*COMPRESSOR*	30	TERMOSTATO ACQUA CALDA	*HOT WATER THERMOSTAT*
6	BASE	*BASE*	31	SPINA PER CAVO ALIMENTAZ.	*ELECTRIC CABLE PLUG*
7	PIEDINO REGOLABILE	*ADJUSTABLE FOOT*	33	TERMOSTATO DI SICUREZZA	*SECURITY THERMOSTAT*
8	INVOLUCRO	*CABINET*	35	COPERCHIO SERBATOIO ACQUA CALDA COMPLETO	*COMPLETE HOT TANK CAP*
9	RUBINETTO LEVA BLU	*BLUE LEVER TAP*			
10	FRONTALINO	*FRONT PIECE*	36	O-RING SERBATOIO CALDO	*HOT TANK O-RING*
11	RUBINETTO LEVA ROSSA	*RED LEVER TAP*	37	RESISTENZA ELETTRICA	*HEATING ELEMENT*
12	VASCHETTA RACCOGLIGOCCE	*DRIP TRAY*	38	SERBATOIO ACQUA CALDA COMPLETO	*COMPLETE HOT WATER TANK*
13	GRIGLIA PER VASCHETTA	*GRILL FOR DRIP TRAY*			
14	GUARNIZIONE PER RUBINETTO	*TAP WASHER*	40	TUBO DI SCARICO	*OUTLET TUBE*
15	RACCORDO PER RUBINETTO	*TAP FITTING*	41	TAPPO DI SCARICO	*OUTLET CAP*
16	DISTRIBUTORE BICCHERI	*CUP DISPENSER*			
20	COIBENTAZIONE POLISTIROLO	*POLYSTYRENE INSULATION*			

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