PARAMETER GENERATION & CONTROL			
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PGC has experience using many different cleaning agents for different aspects of PGC manufactured units. Through this experience we have gained a knowledge of which cleaners work best for different components and needs.

General Cleaning

1. Enviro-Coil Concentrate, Hydro-Balance - U.S.D.A. accepted, environmentally safe coil cleaner. This product is a non-foaming concentrate that only attacks dirt build-up, not metal. Dilution rates: Condensers - 4 parts water / Evaporators - 8 parts water. Enviro-Coil may irritate eyes and skin. Excessive contact should be avoided.

Hard Water Build-up

The buildup of mineral deposits from hard water is common in PGC units. There are two main agents that PGC uses to address the buildup of the mineral deposits:

1. Rydlyme - a mild, biodegradable descaler that has been approved and recommended by the FDA for use in industries including beverage, pharmaceutical, and food processing plants. Rydlyme does not contain any VOC's and/or surfactants. Rydlyme's chemical characterization is Hydrochloric Acid. PGC recommends using Rydlyme for hard water buildup on evaporator coils, spray eliminators, blower

wheels, and other internal components that are robust enough to be cleaned/scrubbed. RydLyme may irritate eyes and skin. Excessive contact should be avoided.

2. ACE Supreme Acid-Based Coil Cleaner (CSF) - Heavy-duty, high foaming hydrofluoric acid based cleaner and brightener formulated for use with aluminum finned and other air cooled condensers. CSF produces a strong foaming action that penetrates beneath contamination and pushes dirt and grease from the coil to the outer surface. Dilution rate of 1 to 3 parts water. ACE Supreme Coil Cleaner is a stronger, harsher product that PGC reserves for extensive mineral buildup and flushing brazed plate condensers. Care should be taken to avoid contact with skin, eyes, and mouth when using this product.

Note: ElectroFin Modine coated coils are recommended by the manufacturer to be cleaned with GulfCoat Coil Cleaner.

Bacteria & Algae Growth

The growth of algae and bacteria in the sump is common in PGC units. The best way to address this issue is by filtering the supply water. When cleaning the unit, PGC can recommend several options:

1. Lemon Scented Chlorine - The lemon scent will reduce the chlorine odor. A small amount of chlorine can be added to the sump and circulated through the plumbing when cleaning most PGC machines. Care must be taken to drain and flush the chlorine mixture once or twice to prevent any of the chlorine from entering the atmosphere inside the room/chamber. After chlorine cleaning, the sump should be rinsed and flushed with a mild baking soda solution to neutralize any residual acid.
2. Pressure Washing - If there is growth in hard to clean areas inside the PGC unit (between the evaporator coil fins, between the spray eliminator fins, etc.), a pressure washer can sometimes be used. Care should be taken not to damage any of the components when using a pressure washer on a PGC machine. It is very important when cleaning and/or rinsing not to exceed 130°F and potable water pressure is less than 100 psig to avoid damaging the unit and coil fin edges.

Dust/Particle Buildup

Any dust or particles that are in the air inside the room/chamber will end up in the water sump. There is often not a cleaning agent that can address particle buildup inside the sump. Care should be taken not to drive the particle buildup between the finned coils. If the unit is experiencing issues with particulate matter building up in the sump, a return air filter can sometimes work. If the unit has a water filter, more frequent changing of that filter can help. The PGC unit may need a more regular cleaning regiment.