



CAPE TOWN (Head Office)
 7 Dipka Street, Stikland Industrial, 7530
 Tel+27 (0) 21 945 2244
 Fax+27 (0) 21 945 2871
 Mail: info@bluchem.co.za

DURBAN
 Unit 4, 3 Kyalami Road, Westmead, 3630
 Tel+27 (0) 31 700 5052
 Fax+27 (0) 31 700 4603
 Mail: durban@bluchem.co.za

PORT ELIZABETH
 Unit 5, Leadwood Crescent, Lorraine, 6055
 Tel+27 (041) 368 5203
 Fax+27 (041) 368 4529
 Mail: portelizabeth@bluchem.co.za

JOHANNESBURG
 Unit 2, 20 Plantation Road, Eastleigh, 1609
 Tel+27 (0) 11 609 8842
 Fax+27 (0) 86 5724048
 Mail: jhb@bluchem.co.za

PROCEDURES FOR CLEANING BLUCHEM COATED COILS

The following cleaning procedures are recommended as part of the routine maintenance activities for Bluchem Coated Coils. **Documented routine cleaning of Bluchem Coated Coils is required to maintain warranty coverage under the Bluchem Terms and Conditions of Sale.**

WARNING: Prior to cleaning the unit, turn and lock off and lock out the main power switch to the unit and open all access panels.

Remove surface loaded fibres

Surface loaded fibres or dirt should be removed prior to water rinse to prevent further restrictions of airflow. If unable to back wash the side of the coil opposite that of the coils entering air side, then the surface loaded fibres or dirt should be removed with a vacuum cleaner. If a vacuum cleaner is not available, then a soft non-metallic bristle brush may be used. In either case, the tool should be applied in the direction of the fins in order not to damage them.

NOTE: Use of a water stream, such as a garden hose, against a surface loaded coil will drive the fibres and dirt into the coil. This will make cleaning efforts more difficult & could cause air flow restrictions.

Periodic Clean Water Rinse

A monthly clean water rinse is recommended for coils that are situated in coastal or industrial environments to help remove chlorides, dirt and debris. It is very important when rinsing not to use excessive pressure to avoid damaging the fin edges. An elevated water temperature (not to exceed 55°C) will reduce surface tension, increasing the ability to remove chlorides and dirt.

Routine Quarterly Cleaning of Bluchem Coated Coil Surfaces

Quarterly cleaning is essential to extend the life of a Bluchem coated coil and is required to maintain warranty coverage. Coil cleaning shall be part of the unit's regularly scheduled maintenance procedures. Failure to clean a Bluchem coated coil will void the warranty and may result in reduced efficiency and durability in the environment.

For routine quarterly cleaning, first remove surface loaded fibres & then clean the coil with a recommended coil cleaner. It is essential that the cleaner is thoroughly rinsed off as failure to do so could lead to accelerated corrosion. The rinse water should not be brackish, contain excessive dissolved minerals, chlorine, water softeners or salt. Excess water should be blown off with low pressure air.

NOTE: Any visible signs of dirt or chlorides (white deposit) are an indication that the unit has not been cleaned satisfactorily. The time between schedules should be reduced.

CAUTIONS: (1) Harsh chemicals, household bleach, highly alkaline or acidic cleaners should not be used to clean Bluchem coated coils. These cleaners can be very reactive and also difficult to rinse out of the coil. This can attack the Bluchem coating. (2) Cleaners containing glycol, or it's derivatives, should not be used (butyl glycol, butyl oxitol, etc). (3) High velocity water from a pressure washer or compressed air may bend fin edges and increase airside pressure drop, reducing the unit performance.

Recommended Coil Cleaners

It is essential that a relatively pH neutral (4 - 10) coil cleaner is used in order not to compromise the coating. The cleaning product used must be recorded on the Bluchem Coated Coil Maintenance Record sheet.

| | | |
|----------------------------------|--|--|
| Document # Blu/ProcCle | Title: Cleaning of BluGuard Coated Coils | Print Date: 23 February 2015 |
| Revision # 1.0 | Prepared By: Kevin Raath | Date Prepared: 09 February 2016 |
| Revision # 2.0 | Prepared By: Kevin Raath | Date Prepared: 07 September 2016 |