

DESIGNER AND MANUFACTURER OF REVERSE OSMOSIS SYSTEMS

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## PROCEDURE TO RE-BED CARBON TANKS

MATERIALS NEEDED:

- CARBON THE TANK SIZE WILL DETERMINE THE NUMBER OF CUBIC FEET REQUIRED. THE CARBON TO BE USED IS A COCONUT SHELL WITH AN 1100 IODINE RATING AND A 12 x 40 MESH SIZE. THE CARBON SHOULD ALSO BE SOFT WATER STEAM ACTIVATED.
- WET-DRY VACUUM CLEANER
- HAMMER
- 2" X 4" WOOD X 12" LONG
- HIGH VACUUM GREASE OR O-RING LUBE
- GARDEN HOSE
- BLEACH
- WIDE MOUTH FUNNEL (2.5" OPENING)
- 1) TURN OFF THE WATER SUPPLY TO THE CARBON TANK(S) AND BLEED OFF THE PRESSURE BY OPENING THE SAMPLE PORT AT THE DISCHARGE OF EACH TANK. DISCONNECT THE INLET AND DISCHARGE PLUMBING AND DRAIN TUBING.
- 2) DISCONNECT THE VOLTAGE SUPPLY WIRES FROM TERMINALS #1 AND #6 ON THE CONTROL UNIT. THESE CONTROLLERS OPERATE ON 24 VAC. IF YOUR CONTROLLER OPERATES ON 120 VAC, TURN OFF THE CIRCUIT BREAKER BEFORE DISCONNECTING ANY WIRES.
- 3) UNTHREAD THE CONTROLLER FROM THE TANK. A 2" X 4" PIECE OF WOOD AND A HAMMER MAY BE NEEDED TO LOOSEN THE CONTROLLER FROM THE TANK. <u>DO NOT</u> <u>USE A HAMMER DIRECTLY ON THE CONTROLLER.</u>
- 4) CAREFULLY REMOVE THE DISTRIBUTION TUBE PROTRUDING FROM THE CARBON, AND CLEAN THE SCREEN AT THE BOTTOM OF THE TUBE.
- 5) USING THE WET-DRY VACUUM CLEANER, VACUUM OUT ALL OF THE CARBON. USING TAP WATER OR SOFT WATER, RINSE THE REMAINING CARBON FROM THE TANK WITH THE GARDEN HOSE.
- 6) FILL THE TANK WITH TAP WATER OR SOFT WATER AND ADD 500 CC OF BLEACH PER CUBIC FOOT. (EXAMPLE) IF YOU TANK HOLDS 3 CUBIC FEET OF CARBON, ADD 500 CC OF BLEACH.
- 7) REPLACE THE DISTRIBUTION TUBE IN THE TANK AND RE-INSTALL THE CONTROLLER. ALLOW THE TANK TO SOAK FOR AT LEAST 30 MINUTES TO DISINFECT.
- 8) AFTER A MINIMUM OF 30 MINUTES OF SOAK TIME, RINSE THE TANK, DISTRIBUTION TUBE AND CONTROLLER WITH TAP WATER OR SOFT WATER. USE A CHLORINE TEST

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KIT TO INSURE THE BLEACH HAS BEEN THOROUGHLY RINSED FROM THE TANK. LOW LEVELS OF RESIDUAL BLEACH (BELOW 1.0 PPM) WILL BE REMOVED BY THE CARBON DURING BACK-WASHING.

- 9) INSTALL THE DISTRIBUTION TUBE AND COVER THE OPENING AT THE TOP OF THE TUBE WITH PAPER TAPE. BE SURE THE TUBE IS SITTING AT THE VERY BOTTOM OF THE CURVED PART OF THE TANK.
- 10) USING THE WIDE MOUTH FUNNEL. FILL THE TANK WITH THE CORRECT NUMBER OF CUBIC FEET OF CARBON. BE SURE YOU DO NOT GET ANY CARBON IN THE DISTRIBUTION TUBE.
- 11) ONCE THE TANK IF FILLED, CLEAN THE THREADS ON THE TANK OPENING AND ON THE CONTROLLER. LUBRICATED THE TANK THREADS, CONTROLLER THREADS AND CONTROLLER O-RING HIGH VACUUM GREASE OR O-RING LUBE. REMOVE THE PAPER TAPE AT THE TOP OF THE DISTRIBUTION TUBE.
- 12) INSTALL THE CONTROLLER. USE THE HAMMER AND BLOCK OF WOOD TO INSURE A TIGHT FIT.
- 13) RECONNECT THE PLUMBING AND WIRING.
- 14) BE SURE THE TIMER IS SET TO THE CORRECT TIME OF DAY, CORRECT BACH-WASH TIME AND CORRECT DAY OF THE WEEK. IF YOUR CONTROLLER OPERATES ON 120 VAC, TURN ON THE CIRCUIT BREAKER.
- 15) PLACE THE TIMER IN THE BACK-WASH MODE AND ALLOW THE TIMER TO COMPLETE ITS CYCLE.
- 16) ONCE THE BACK-WASH CYCLE IS COMPLETE, CHECK THE SAMPLE PORT WITH A TOTAL CHLORINE TEST KIT FOR A NEGATIVE CHLORINE RESULT.
- IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT G.E.M. WATER SYSTEMS, INT'L. LLC AT 1-800-755-1705.