

## PROGRAMMING THE 7000XTR

PRESSING THE <EXTRA CYCLE> BUTTON ADVANCES TO THE NEXT PROGRAMMING STEP, PRESSING THE <UP> OR <DOWN> BUTTON CHANGES THE VALUE ENTERED

Set the time display to 12:01 PM (VERY IMPORTANT - IF YOU DO NOT SET TO **12:01 PM** YOU DO NOT ENTER MASTER PROGRAMMING MODE, MAKE SURE THE LED IS DISPLAYED THAT SHOWS **PM**)

To change time of day, press and hold the <UP> and <DOWN> buttons for two seconds, Press the <SHIFT> button (left arrow) to select the digit you want to modify.

PRESS <EXTRA CYCLE> TO EXIT TIME OF DAY MODE

PRESS AND HOLD <UP> AND <DOWN> BUTTONS SIMULTANEOUSLY FOR 5 SECONDS TO ENTER MASTER PROGRAMMING MODE

STEP 1 – SYSTEM TYPE, SELECT EITHER METER IMMEDIATE OR METER DELAYED. (METER IMMEDIATE OR MTR DLY FIX RSV)

*Selecting "Meter Immediate" means that an automatic regeneration cycle will occur whenever the capacity of the system is exhausted – this can happen at any time throughout the day. It is more common to select the "Meter Delayed" function that will initiate a regeneration at a selected time. Meter delayed allows the softener to regenerate during a period of low water usage, like during the early morning.*

STEP 2 – SELECT VALVE TYPE (7000 XTR)

STEP 3 – SELECT REGENERATE FLOW (DOWN FLOW)

STEP 4 - SELECT GALLONS (US-GALLONS)

STEP 5 – ENTER UNIT CAPACITY

24,000 GRAINS

32,000 GRAINS

48,000 GRAINS

64,000 GRAINS

STEP 6 – FEEDWATER HARDNESS – ENTER THE HARDNESS VALUE OF YOUR WATER IN GRAINS PER GALLON (GPG)

STEP 7 – ENTER 20% SAFETY FACTOR (20)

STEP 8 - REGENERATION DAY OVERRIDE - DEFAULT IS "OFF". SELECT "ON" (IF DESIRED) ENTER THE DAY YOU WANT TO FORCE A REGENERATION

*The "Regeneration Day Override" feature will force a regeneration on the day as entered, even if the unit did not meter enough water consumption so as to required an automatic regeneration. A common setting is 10 days - some defeat this setting and leave at the factory default value of OFF so that no override occurs.*

STEP 9 - SET REGENERATION TIME. DEFAULT TIME OF REGENERATION IS 2:00 AM, ADJUST TIME AS DESIRED.

STEP 10 - REGENERATION CYCLE STEP PROGRAMMING (12 POUNDS SALT/FT3)

(24,000 GRAIN CAPACITY)

BW, REGENERATION CYCLE STEP #1, 10 MINUTES  
BD, REGENERATION CYCLE STEP #2, 60 MINUTES  
RR, REGENERATION CYCLE STEP #3, 10 MINUTES  
BF, REGENERATION CYCLE STEP #4, 6 MINUTES

(32,000 GRAIN CAPACITY)

BW, REGENERATION CYCLE STEP #1, 10 MINUTES  
BD, REGENERATION CYCLE STEP #2, 60 MINUTES  
RR, REGENERATION CYCLE STEP #3, 10 MINUTES  
BF, REGENERATION CYCLE STEP #4, 8 MINUTES

(48,000 GRAIN CAPACITY)

BW, REGENERATION CYCLE STEP #1, 10 MINUTES  
BD, REGENERATION CYCLE STEP #2, 60 MINUTES  
RR, REGENERATION CYCLE STEP #3, 10 MINUTES  
BF, REGENERATION CYCLE STEP #4, 12 MINUTES

(64,000 GRAIN CAPACITY)

BW, REGENERATION CYCLE STEP #1, 10 MINUTES  
BD, REGENERATION CYCLE STEP #2, 60 MINUTES  
RR, REGENERATION CYCLE STEP #3, 10 MINUTES  
BF, REGENERATION CYCLE STEP #4, 16 MINUTES

STEP 11 – AUXILIARY RELAY OUTPUT - SELECT DISABLED

STEP 12 - FLOW METER TYPE – SELECT 1.25 TURBINE

EXIT MASTER PROGRAMMING

## UNDERSTANDING THE BRINING PROCESS

Your softener is equipped with a 0.5 GPM BLFC flow control. Your softener can be set for brining at about 12 pounds per cubic foot.

24,000 grain = 3/4 cubic feet of resin

32,000 grain = 1.0 cubic foot of resin

48,000 grain = 1.5 cubic feet of resin

64,000 grain = 2.0 cubic feet of resin

A 48,000 capacity water softener grain example:

Three (3) pounds of salt will dissolve into a gallon of water - so to have 18 pounds of salt (12 pounds x 1.5 cubic feet) you need to have brine refill at 12 minutes to refill the brine tank with 6 gallons of water (6 gallons at 3 pounds of salt per gallon = 18 pounds).

Default settings are fine for backwash, brine draw/slow rinse and rapid rinse.

Step 10 (as above)

BW = 10 minutes (backwash position) - flushes/cleans the resin bed

BD = 60 minutes (brine draw/slow rinse) - draws brine solution into the resin bed

RR = 10 minutes (rapid rinse) - rinses excess brine from resin bed

BF = 12 minutes (refill) - refill brine tank with water

Adjust setting BF as required for your capacity softener.