NELSEN
CORPORATION™

Twin Alternating AIO Setup Instructions

If the demand for treated water is 24/7, you may require an AIO system in a dual-alternating configuration. You must program the AIO valve as a softener to access the ALT A, ALT B settings.

> ⚠ **This setup will NOT have a slow air release and the drain line will need to be secured due to the rapid release of the air pocket.**

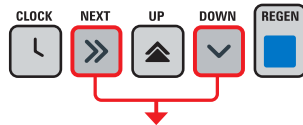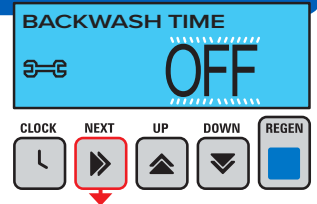| Two (2) – NWS10CFM-AIO-0.0 AIO Control Valves	One (1) – CL-MAV-125 Motorized Alternating Valve	One (1) – CL-COM-34-12 Communication Cable

Twin Alt Programming

Step 1
Press any button to activate display. Press **NEXT** and ▼ simultaneously for 3 seconds and release.

Step 2
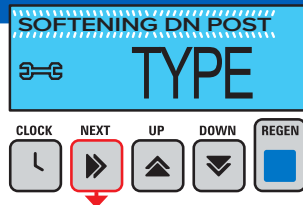Choose SOFTENING DN POST using ▲ or ▼.
Press **NEXT** to go to Step 3.

SOFTENING DN POST
TYPE

Step 3
Press the ▲ or ▼ to adjust the duration of the first Backwash cycle to 14 minutes.
Press **NEXT** to go to Step 4.

BACKWASH TIME
14:00 MIN

Step 4
Press the ▲ or ▼ to adjust the duration of Draw Down Time to 40 minutes.
Press **NEXT** to go to Step 5.

DRAW DN TIME
40:00 MIN

Step 5
Press the ▲ or ▼ to set the second Backwash cycle to OFF.
Press **NEXT** to go to Step 6.

BACKWASH TIME
OFF

Step 6
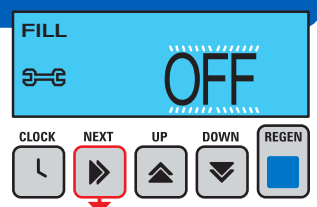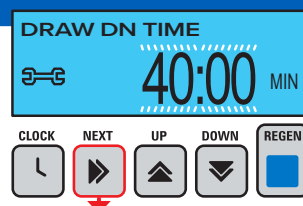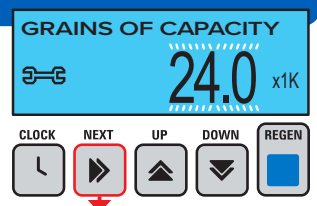Press the ▲ or ▼ to adjust the duration of the Rinse cycle.
Press **NEXT** to go to Step 7.

RINSE TIME
OFF

Step 7
Press the ▲ or ▼ to set the FILL to OFF.
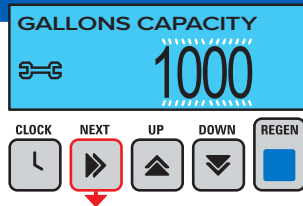Press **NEXT** to go to Step 8.

FILL
OFF

Step 8
Press the ▲ or ▼ to set the system capacity. This doesn't matter what you set it to as we will use day override..
Press **NEXT** to go to Step 9.

GRAINS OF CAPACITY
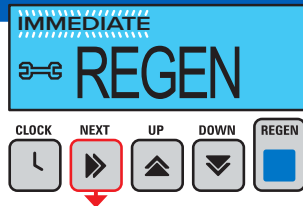**24.0** x1K

AIO Twin Alternating

Step 9

Set the Volume Capacity using the ▲ or ▼ to 1000 gallons (or calculate capacity according to media specs and contaminate load)

Press **NEXT** to go to Step 10.

GALLONS CAPACITY
1000

CLOCK | NEXT | UP | DOWN | REGEN

Step 10

Set Regeneration Type Options using ▲ or ▼ to IMMEDIATE.

Press **NEXT** to go to Step 11.

IMMEDIATE
REGEN

CLOCK | NEXT | UP | DOWN | REGEN

Step 11

Set both Relay Options using ▲ or ▼ to OFF.

OFF
RELAY 1

CLOCK | NEXT | UP | DOWN | REGEN
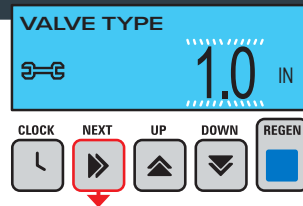
MAV Configuration Settings

MAV Step 1

Press any button to activate display. Press **NEXT** and ▼ simultaneously for 3 seconds and release. Press **NEXT** and ▼ simultaneously for 3 seconds again and release.

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CLOCK | NEXT | UP | DOWN | REGEN
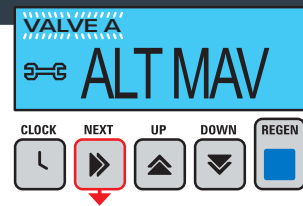
CLOCK | NEXT | UP | DOWN | REGEN
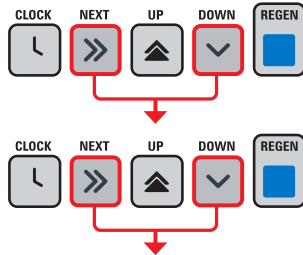
MAV Step 2

Displays Valve Type. Use ▲ or ▼ to select 1.0 for 1" valve, 1.25 for 1.25" valve, or 1.5 for 1.5" valve. Press **NEXT** to go to MAV Step 3.
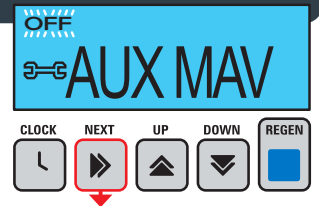
VALVE TYPE
1.0 IN

CLOCK | NEXT | UP | DOWN | REGEN

MAV Step 3

Use ▲ or ▼ to set the ALT MAV to Alt A for valve A.

Press **NEXT** to go to MAV Step 4.

VALVE A
ALT MAV

CLOCK | NEXT | UP | DOWN | REGEN

MAV Step 4

Use ▲ or ▼ to set the AUX MAV Output Operation to OFF

Press **NEXT** to go to MAV Step 5.

OFF
AUX MAV

CLOCK | NEXT | UP | DOWN | REGEN

MAV Step 5

Use ▲ or ▼ to set the Auxiliary (DP) Input Operation to OFF. Press **NEXT** to EXIT

DP INPUT
OFF

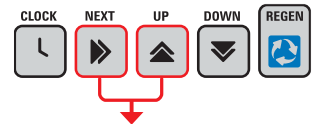CLOCK | NEXT | UP | DOWN | REGEN
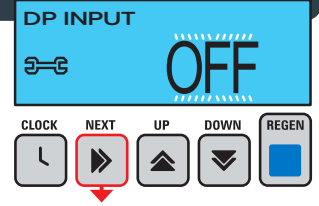
Set Day Override

NWS Dealer Manual Page 4.

Step 1

Press any button to activate display. Press **NEXT** and ▲ simultaneously for 3 seconds and release.

CLOCK | NEXT | UP | DOWN | REGEN

Step 2

Press ▲ or ▼ to adjust the Day Override to 1 day.

Press **NEXT** to go to Step 3IL.

DAY OVERRIDE
1

CLOCK | NEXT | UP | DOWN | REGEN
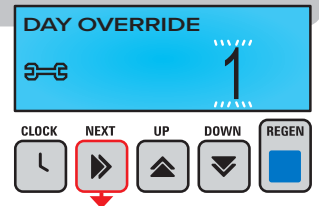
Step 3

Press ▲ or ▼ to turn Light On or Off.

Press **NEXT** to **EXIT** or to set **MINIMUM REGEN.**

LIGHT NORMALLY
OFF

CLOCK | NEXT | UP | DOWN | REGEN

Programming is now complete for the first valve in the sequence. Program the second valve for the Twin ALT setup.

⚠ **Note:** At Step MAV 3, set the ALT MAV to Alt B for Valve B