Receiving and Unpacking

Carefully unpack all components and compare to the packing list. Notify NovaLynx Corporation immediately concerning any discrepancy. Inspect equipment to detect any damage that may have occurred during shipment. In the event of damage, any claim for loss must be filed immediately with the carrier by the consignee. Damages to equipment sent via Parcel Post or UPS require the consignee to contact NovaLynx Corporation for instructions.

Returns

If equipment is to be returned to the factory for any reason, call NovaLynx between 8:00 a.m. and 4:00 p.m. Pacific Time to request a Return Authorization Number (RA#). Include with the returned equipment a description of the problem and the name, address, and daytime phone number of the sender. Carefully pack the equipment to prevent damage or additional damage during the return shipment. Call NovaLynx for packing instructions in the case of delicate or sensitive items. If packing facilities are not available take the equipment to the nearest Post Office, UPS, or other freight service and obtain assistance with the packaging. Please write the RA# on the outside of the box.

Warranty

NovaLynx Corporation warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from the date of shipment from the factory. NovaLynx Corporation's obligations under this warranty are limited to, at NovaLynx's option: (i) replacing; or (ii) repairing; any product determined to be defective. In no case shall NovaLynx Corporation's liability exceed product's original purchase price. This warranty does not apply to any equipment that has been repaired or altered, except by NovaLynx Corporation, or that has been subjected to misuse, negligence, or accident. It is expressly agreed that this warranty will be in lieu of all warranties of fitness and in lieu of the warranty of merchantability.

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MODEL 255-620-A
EQUIPMENT CONFIGURATION AND IDENTIFICATION
1.0 INTRODUCTION

NovaLynx Corporation has designed a simple and easy-to-use system for automatically refilling the evaporation pan at specified times.

The 255-620-A Auto Refill System has two major parts. The first part is a digital electronic water timer powered by one 9V battery. The second part is the automatic float valve. An operation manual for the timer is included for detailed setting Instructions.

1.1 Specifications

- Power: One 9V alkaline battery (included)
- Operating temperature: 3 to 50° C (37.4 to 122 °F)
- Operating humidity: 0-100% RH
- Housing: High grade polystyrene
- Water connection: Standard garden hose fitting
- Size: 8" x 6" x 4" approx
- Weight/Shipping: 4 lbs/7 lbs

2.0 INSTALLATION

1. Attach the 255-620-A to the evaporation pan using the supplied hardware.

2. Connect to a water source (2 psi to 100 psi) using a standard garden hose (not included).

3. Install the battery and program the timer for desired filling times (weekly, daily, etc.)

4. This completes the installation.
3.0 OPERATION

Theory of Operation

The automatic refill system allows water to flow into the evaporation pan from an external water source. The timer turns the water on at a user specified time and it remains on for a short time. The automatic float valve will stop the water flow at approximately 8-1/2" to 9-1/2" (depending upon water pressure). Then the timer shuts off the water flow until the next programmed time.

Note: Approximately 8 gallons of water will change the pan level by 1 inch.

IMPORTANT: Prior to freezing weather, remove timer from the faucet or water source, drain all water, and store inside with batteries removed. Severe damage will occur below 37.4 °F (3 °C).

Example of Program Cycle

A typical cycle to fill the pan every Monday at 7:00 am would be:

Refer to the electronic timer manual for detailed instructions. A PDF version of the manual is available on our website (novalynx.com).

Install battery first.

Set current time on the timer. Timer operates on MILITARY (24 HOUR) TIME ONLY.

Set program start (open) time at 07:00.

Set program stop (closed) time at 07:10.

This assumes that 10 minutes is sufficient time to fill the pan with the existing water pressure. A longer time may be required for remote locations where water tanks with slower gravity flow are used to fill the pan.

Set days to water.

Days of the week are represented by numbers 1-7. Assuming Sunday is the 1st day of the week, select only number 2 for Monday. All other numbers should be turned off.

The function on the above setting will be:
• On Monday at 7:00 am the water flow will turn on and start to fill the evaporation pan.
• When the pan fills to about 9" deep the automatic float valve will stop the water flow.
• After 10 minutes the timer will close the valve and any water flow will stop.
• The following Monday at 7:00 am the cycle will start over again.
4.0 TIMER INSTRUCTIONS

Operating controls

Battery installation

Notes:
- Use only new Alkaline batteries.
- Replace the battery at the beginning of the watering season.
- Timer is protected against reverse polarity of the battery and automatically checks the battery level; battery change indicator flashes when battery is running low to indicate that battery should be replaced.
- When battery is dead, the timer will automatically shut off all functions and disable the display.
- When replacing the battery, the clock time and the current date in addition to the irrigation times are stored for a maximum of 30 seconds. Beyond this period of time, the following must be reset:
  - current time (see “Setting current time,” page 10);
  - weekly schedule of watering (see “Weekly schedule,” page 17-18).
- Timer is equipped with a safety feature that prevents the opening of the valve if the battery does not have enough power to ensure the valve is closed.
- When timer is not in use for an extended period of time, remove the battery to avoid deterioration.
- Do not dispose dead batteries as ordinary household refuse. Always replace batteries properly, according to local ordinances.

Display and keyboard

Display and keyboard

Setting current time

As soon as the battery is connected, you will hear a click indicating that the valve is closed for safety purposes, and immediately the display will turn on showing the clock page as 0:00.

- Press and OK appears.

- Press the and buttons to increase or decrease the current time. If holding the button, the time progresses more quickly until the desired time is reached. Timer works for a 24-hour clock (i.e., 2 pm=1400) therefore refer to the military hours chart below.

- To confirm the selected time setting, press .
**Programming**

**SETTING PROGRAMS**
When setting the programs, make sure that your schedule falls within a single 24-hour window (e.g., 00:00 - 23:59). Program 1 must correspond to your earliest watering cycle of the day.

1. Press the button to display the page of PROGRAM 1 in the OPEN status.
2. Press the OKC button to edit the opening time of the program.
3. Use the buttons to decrease or increase the opening time. Up to the left side of the display appears 1 as a number of digital block to indicate that program 1 is active. This number is displayed flash when program is in operation. (by holding down the button programs move quickly.)
4. Press the OKC button to confirm the edited opening time, OKC disappears.
5. Press the OKC button to display the page of PROGRAM 1 in the CLOSED status.
6. Use the buttons while not setting the time the CLOSED status.
7. Press the button to confirm the edited closing time, OKC disappears.
8. Press the button to display the page of PROGRAM 2 in the OPEN status.
9. Follow the instructions listed above top set opening and closing time of PROGRAM 2.

Programs must be set in sequence, therefore Program 2 can not be set before Program 1 has been stored.

When programming watering cycles, time automatically adjusts for the next minute (e.g., Program 1 closing time is 07:30, Program 2 opening time defaults to 07:31).

**DELETING PROGRAMS**
It is possible to cancel a program previously set.

1. Select the CLOSED page of the program that you wish to cancel.
2. Press the OKC button.
3. Press the buttons until the display reads 00:00 and the number corresponding to the program (1 or 2) located on the upper left side of the display is no longer shown.

**DEFAULT FACTORY SETTINGS**
On any page, hold down the buttons for approximately 10 seconds the buttons until display shows 00:00.

**Programming**

**WEEKLY SCHEDULE**
Before setting the weekly schedule, it is necessary to know on which day the time has been set for the first time. Press the button to display the time clock page. The number located above the button indicates the day of the week. The display shows the weekly schedule for the week. Use the table below to determine the correspondence between the numbers and the week days.

<table>
<thead>
<tr>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
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<td>31</td>
<td>1</td>
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<td>4</td>
</tr>
</tbody>
</table>

Look for your current day on the page of the program and press the button on the clock page of the button on the weekly schedule page.

1. Press the button to cancel the program.
2. Press the OKC button to save the program.
3. Press the button to edit the program.
4. Press the OKC button to confirm the edited program.

**FREQUENTLY ASKED QUESTIONS**

1. Can the programs be scheduled to operate on any specific week day?
   Yes, all programs must be set within a 24-hour window starting from midnight (00:00).

2. When on the current time page, what does the small number in the lower right corner of the screen represent?
   It represents the day of the week the timer is operating on. Please refer to example on page 16.

3. Can I change the time of the manual mode? Yes, digital setting is possible to avoid possible flooding when the unit is not supervised during the manual mode. Alarming the manual function can be executed by hand selection only.

4. What happens if the unit is not removed during freezing temperature?
   The ABS plastic components will cause the unit to be impenetrable.

5. How do I determine the time in military hours?
   Use chart below as a reference:

<table>
<thead>
<tr>
<th>REGULAR TIME</th>
<th>MILITARY TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 AM</td>
<td>24:00</td>
</tr>
<tr>
<td>12:15 AM</td>
<td>00:15</td>
</tr>
<tr>
<td>01:30 PM</td>
<td>13:30</td>
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<tr>
<td>05:00 PM</td>
<td>17:00</td>
</tr>
<tr>
<td>06:30 PM</td>
<td>18:30</td>
</tr>
<tr>
<td>07:45 PM</td>
<td>19:45</td>
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</table>

**Trouble shooting**

The following table provides useful instructions for safely dealing with possible malfunctions that you might encounter during the use of the watering system.

**PROBLEM**
A switch is dead, or has not been turned on correctly (see "Battery installation", page 4-10).

**SOLUTION**
Check - the switch and plug if necessary (see "Routine maintenance", page 14-16) - the correct connection of the watering line.

**The timer does not work properly**
Factory settings can be restored by pressing and holding down for approximately 10 seconds both buttons until display reads 00:00. Then, reprogram the timer (see "Setting current time", page 14 and "Setting programs", page 15-23).

**The timer does not work properly**
Factory settings can be restored by pressing and holding down for approximately 10 seconds both buttons until display reads 00:00. Then, reprogram the timer (see "Setting current time", page 14 and "Setting programs", page 15-23).

**Trouble shooting**

After battery replacement, programs take place at times different from those previously set.

When replacing the battery, the clock time and the current date in addition to the irrigation time are stored for a maximum of 30 seconds. (Beyond this period of time, the following must be reset: current time (see "Setting current time", page 14), weekly schedule of watering time (see "Weekly schedule", page 17-19).)