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Welcome to Lodore Smart Pool Filler

Congratulations on choosing the Smart Pool Filler—an automatic water-level control system for your swimming pool. With both wired and wireless models, it uses smart sensors to detect low water levels and refill your pool automatically.

This system helps you save time, reduce manual monitoring, prevent damage caused by low water levels, and operate your pool more efficiently with energy-saving features. It's designed for easy use, smart control, and long-lasting performance.

Please take a moment to read this manual. It includes important safety instructions, installation steps, and maintenance tips to help you get the most out of your Smart Pool Filler.

IMPORTANT NOTICE

This product must be installed and maintained by a qualified professional who is licensed to work with pool systems, according to your local or state regulations. To avoid improper installation and ensure safe operation, only individuals with relevant experience in pool plumbing and electrical systems should handle this equipment.

Before using the Smart Pool Filler, please review all warnings and instructions provided in this manual. Improper installation or misuse can lead to equipment failure, water damage, electric shock, or injury. Not following the manufacturer's guidelines will also void the product warranty.

WARNING: Do not operate pool-related equipment (e.g., heaters, chlorinators) without ensuring proper water flow. Inadequate water supply due to low water levels may lead to overheating, buildup of flammable gases, and even risk of fire or explosion. This device is not intended to be operated by young children or individuals without supervision.

SAFETY INSTRUCTIONS

RISK OF PROPERTY DAMAGE OR PERSONAL INJURY

READ AND FOLLOW ALL INSTRUCTIONS

When installing and operating the Smart Pool Filler, follow these essential safety precautions to reduce the risk of injury, electrical hazard, or equipment damage:

WARNING – Qualified Installation Required

For your safety, this product must be installed and serviced by a licensed pool technician or qualified professional. Improper installation or servicing may lead to serious injury, property damage, or void the warranty.

WARNING – Read Instructions First

Before using this product, carefully read all warnings and instructions included in this manual. Failure to follow the guidelines may result in injury, death, or damage to pool equipment and systems.

WARNING – Child Safety

To prevent accidents, do not allow children to operate or play near the Smart Pool Filler without adult supervision at all times.

WARNING – Electrical Safety

Risk of electric shock:
• Install the control box at least 5 feet (1.5 meters) from the edge of the pool or spa when using non-metallic plumbing.
• For Canadian installations, maintain a minimum distance of 3 meters.
• Always ensure power is disconnected before servicing.
• This product must be connected to a grounded electrical circuit using a green-insulated ground wire of at least 12 AWG (3.3 mm). Improper grounding may result in serious injury or electric shock.

Attention Installer:
Ensure proper drainage for the electrical compartment to avoid internal damage due to water exposure.

ATTENTION INSTALLER:

This manual contains essential information about the safe installation and operation of this product. Please provide this manual to the owner or end user.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

OVERVIEW

The Lodore Smart Pool Filler is an intelligent, automatic water-level management system designed to keep your swimming pool properly filled at all times. Using advanced water-level sensors, the system monitors the pool's water height and automatically activates filling when the level drops below a set point—eliminating the need for daily manual checks or adjustments.

This product helps pool owners prevent water loss‑related damage, optimize system efficiency, and reduce energy and maintenance costs. It is ideal for residential and light commercial pool applications.

The Smart Pool Filler is available in two models to suit different installation preferences:

● **WWWF-2: Wireless Pool Filler**
Uses a wireless sensor and receiver system for flexible installation without trenching or extensive wiring. Ideal for retrofit or existing pool systems.

● **WWWF-3: Wired Pool Filler**
Features a hardwired connection between the sensor and controller, offering stable signal transmission and long-term reliability. Best suited for new pool builds or where wiring infrastructure already exists.

Both models are built for durability, accuracy, and convenience, helping you maintain your pool automatically and worry-free.

What's Included
Check that the following components have been included in your package:

What's NOT Included
Some of the additional items that you may need to complete an installation include:
Wire
● Wire/conduit for incoming power and high voltage connections
● Wire for remote variable speed pump control and other low voltage devices

Tools Needed
● Phillips and flat screwdrivers Drill and drill bits (including 3/8")
● Wire cutters and strippers Pliers
● Knife to cut conduit Level

TECHNICAL SPECIFICATIONS

Parameter	WWWF-2 (Wireless Model)	WWWF-3 (Wired Model)
Power Supply	Solar-powered (integrated panel)	120V / 240V AC (field selectable)
Control Voltage Output	24V AC (to solenoid valve)	24V AC (to solenoid valve)
Sensor Type	Skimmer-mounted float sensor with adjustable arm	Skimmer-mounted half-moon sensor
Sensor Power Source	Solar-powered via panel on skimmer lid	Low voltage wiring from control box
Water Level Adjustment	Via float arm on skimmer sensor	Fixed based on sensor position
Fill Activation	Automatic via wireless signal	Automatic via direct wiring
Indicator Light	Green "FILLING" LED on control box	Green "FILLING" LED on control box
Solenoid Valve Type	24V AC Brass or Plastic Valve	24V AC Brass or Plastic Valve
Valve Wiring	Wired directly to control box terminal (Slots 1 & 2)	Wired directly to control box terminal (Slots 1 & 2)
Sensor Wiring	Solar panel (Red/Black/Green) → Sensor (Red/Black/Yellow)	Sensor wires connected to orange leads in control box
Control Box Enclosure	Weather-resistant ABS plastic	Weather-resistant ABS plastic
Installation Location	Skimmer lid (sensor + solar) / pump pad (valve)	Skimmer + pump pad (sensor + control box + valve)
Wireless Range	Up to 30 meters (unobstructed)	N/A
Operating Temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Waterproof Rating	IP65 (sensor and solar lid)	IP65 (control box)
Compliance	NEC/NFPA 70 / CSA C22.1 / Local electrical codes	NEC/NFPA 70 / CSA C22.1 / Local electrical codes

INSTALLATION INSTRUCTIONS

Before You Begin

● Before starting the installation of your Smart Pool Filler, please review the following:

● Make sure you have all necessary components and tools available.

● Verify whether you are installing the WWWF-2 (Wireless Model) or WWWF-3 (Wired Model), as installation steps may differ.

● Ensure the power supply matches the required input voltage (120V or 240V).

● Turn off power at the circuit breaker before handling any wiring.

● Read through the entire installation section before beginning to ensure a smooth and safe setup process.

● If unsure at any point, consult a licensed electrician or pool professional.

Install the Control Box

1. Select Installation Location

Mount the control box to a wall near the pool equipment area (such as the pump and filter).

Important: Install the control box at least 5 ft (1.5 m) from the inside wall of the pool or spa unless separated by a permanent barrier..
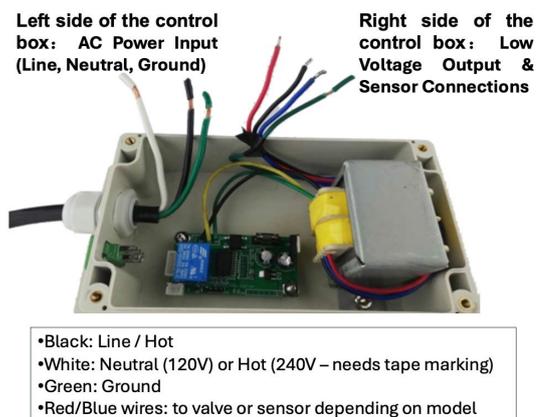
2. Mount at Proper Height

Position the control box at eye level for easy access. Ensure adequate clearance on all sides of the chassis for ventilation and maintenance.

3. Check Power Supply Voltage

Verify the input voltage before wiring. The system supports both 120V and 240V connections.

4. Wire the Power Input (left side of the control box):

Left side of the control box： AC Power Input (Line, Neutral, Ground)

Right side of the control box： Low Voltage Output & Sensor Connections

• Black: Line / Hot
• White: Neutral (120V) or Hot (240V – needs tape marking)
• Green: Ground
• Red/Blue wires: to valve or sensor depending on model

For 120V connections:

•   Connect the blue wire from the controller to the white (neutral) power wire.

•   Connect the black wire from the controller to the black (hot) power wire.

•   Connect the green wire to the ground.

Note: The blue wire from the controller functions as the neutral conductor

For 240V connections:

- Connect the red wire from the controller to the white (hot) power wire.
- Connect the black wire from the controller to the black (hot) power wire.
- Connect the green wire to the ground.

Note: In 240V installations, the white conductor is used as a hot leg and must be re-identified with black or red electrical tape to indicate it is not a neutral conductor.

WARNING – Electrical Hazard

Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

Before performing any installation or maintenance, shut off power at the main circuit breaker to disconnect the control box from the electrical supply.

The supply circuit must be protected by a Ground-Fault Circuit Interrupter (GFCI).

All wiring must be completed in accordance with applicable codes, including the National Electrical Code (NEC), NFPA 70 in the United States, or the Canadian Electrical Code (CEC), CSA C22.1 in Canada. Local installation codes and regulations must also be followed.

Grounding

To ensure safe operation of the Smart Pool Filler, the green ground wire from the control box must be securely connected to the grounding system of your electrical service panel. Use a continuous copper conductor with green insulation, Use a copper grounding conductor with green insulation not smaller than the circuit supply conductors and in accordance with local electrical codes.

Proper grounding is essential to reduce the risk of electric shock and equipment malfunction.

Installing the Fill Valve

NOTE: Be sure to install the valve with the directional flow arrow facing the correct direction of water flow. The arrow is typically molded into the body of the valve on the inlet side.

The Smart Pool Filler system uses a 24 VAC solenoid valve to deliver water from the supply line to the pool or spa. The fill line can be installed:

- On a dedicated return line directly back to the pool, or
- Connected to the equipment pad, either before or after the filter.

For best performance and protection of the system, we strongly recommend installing:

- An anti-siphon valve to prevent unintentional draining of the pool.
- An in-line strainer to block debris from entering the valve.

Wiring the Valve

1. Connect the 24 VAC solenoid valve to the supplied 18-gauge solid-core burial

cable using the included grease-filled wire nuts to ensure a waterproof seal.

2.   Connect the other end of the cable to the control box, depending on the model you are installing:

For WWWF-3 (Wired Model):

1.   Locate the solenoid valve, typically mounted near the plumbing line at the equipment pad. The valve has two wires:
- Red (positive)
- Black (negative)

2.   On the side of the WWWF-3 control box, locate the green terminal block with five slots (see image). This is the output port for valve and sensor wiring.

3.   Connect the two wires from the solenoid valve to the terminal block as follows:
- Insert the red wire into Slot 1 (top-most position)
- Insert the black wire into Slot 2 (just below Slot 1)
- Tighten the screws on the terminal block to secure the wires in place.

IMPORTANT: Make sure the power is turned off before making any electrical connections.

For WWWF-2 (Wireless Model):

Adjusting Flow Rate

3.   Use the flow control knob (+ / -) on top of the valve to adjust the fill rate to match your pool system specifications.
- Standard 1" valves typically support up to 30 GPM (gallons per minute).
- Larger 2" valves may allow up to 130 GPM, depending on your plumbing setup.

Final Setup

4.   Set the manual ON/OFF lever (located just below the solenoid head) to the OFF position. This ensures the valve will only operate when triggered by the Smart Pool Filler control system.

Installing the Sensor (Wired Model – WWWF-3)

CAUTION – Important Safety Instructions

Sensor wires must be continuous and must not be spliced. When possible, solder all low-voltage connections and seal with waterproof, grease-filled wire nuts. Improper connections can result in signal failure or sensor malfunction.

Step 1: Choose Installation Location
The Smart Pool Filler Wired Model (WWWF-3) uses a half-moon style sensor installed inside the pool skimmer. This allows for accurate and concealed water level detection. Installation requires trenching to route the low-voltage sensor cable from the control box to the skimmer.

Step 2: Install the Sensor in the Skimmer

1.   Mount the half-moon sensor horizontally inside the skimmer throat, just above the weir door.

•   Use Velcro, adhesive pad, or silicone sealant to fix the sensor in place securely.

•   Ensure the sensor is positioned at the desired water level and not submerged.

2.   If a threaded version of the sensor is provided, you may screw it into a 1" threaded coupling if needed.

(Note: This product uses standard skim-style surface mounting in most cases.)

Step 3: Connect the Sensor to the Control Box

1.   Route the low-voltage sensor cable through the conduit and into the control box.

2.   Connect the two sensor wires to the orange wires on the right-hand side of the control box using grease-filled waterproof wire nuts.

3.   Make sure the wires are not pinched and have enough slack for serviceability.

NOTE: For proper signal transmission, sensor wires must remain continuous without splicing. Avoid routing wires near high-voltage lines to reduce interference.

Additional Notes:

•   All connections must be weatherproof and comply with local electrical codes.

•   Do not submerge the sensor fully in water—only the sensing tip should be exposed to air and water contact at the surface level.

•   Refer to Figure 13 and Figure 15 for visual guidance.

Installing the Sensor (Wireless Model – WWWF-2)

The wireless model of the Smart Pool Filler features a solar-powered water level sensor mounted inside the pool skimmer lid. This sensor includes an adjustable arm for setting the desired water level, and communicates wirelessly with the control unit.

Step 1: Prepare the Skimmer Lid

1. Remove the existing skimmer lid and replace it with the provided sensor-integrated skimmer lid.
2. Drill five small holes in the lid as follows:
   • Two holes on the far left and right sides of the solar panel position – for mounting the solar panel securely using screws.
   • Three holes in the center section – for routing the solar panel wires through the skimmer lid.

Tip: Position and drill the holes according to the dimensions of the solar panel. Ensure alignment with the mounting brackets.

Step 2: Wire the Solar Panel to the Sensor

1. Feed the three wires from the solar panel through the center holes drilled in the

skimmer lid.

    2.   Connect the wires from the solar panel to the sensor's wires as follows:

•   Red (solar) → Red (sensor)

•   Black (solar) → Black (sensor)

•   Green (solar) → Yellow (sensor)

•   Leave the White wire from the sensor unconnected.

Make sure all connections are secure and protected. You may use waterproof wire nuts or heat shrink tubing for additional sealing.

Step 3: Set Desired Water Level

    1.   Adjust the float arm connected to the sensor. The position of this arm determines the activation point for refilling.

    2.   Set the float arm so that it sits at your desired pool water level when the lid is in place.

Step 4: Final Assembly

    1.   Carefully lower the sensor assembly and wires into the skimmer well.

    2.   Align and secure the lid in place with the solar panel facing upward and exposed to direct sunlight.

    3.   Ensure the lid sits flat and the solar panel is not obstructed.

Once installed, the wireless sensor will automatically transmit water level data to the control unit. No further setup is required.

OPERATION

The Smart Pool Filler is designed to operate fully automatically once installed—no manual switching or configuration is required.

How It Works:

●   After the system is powered on and the sensor is properly connected, it begins monitoring the pool water level in real time.

●   When the water level drops below the set threshold, the controller activates the fill valve and the green "FILLING" indicator light on the control box turns on.

●   Once the pool reaches the desired water level, the sensor sends a stop signal, the valve closes, and the "FILLING" light turns off.

Testing the System

To verify proper installation and functionality:

1.   Gently lift the water level sensor out of the water so it is exposed to air.

2.   Observe the control box:

•   The "FILLING" light should turn on within a few seconds, indicating the system is

correctly detecting low water level.
3.   Lower the sensor back to its normal water-level position to end the fill cycle.

If the light responds as described, the system is working correctly.

Warning: Do not attempt to manually force the valve or power the system while submerged. Always ensure the sensor is positioned and secured correctly for accurate operation.

LIMITED WARRANTY

Lodore warrants its BlueSense Guardian Automation systems and accessories to be free from defects in materials and workmanship, under normal residential use and service, for a period of three (3) years from the date of original purchase. This limited warranty applies only to private residential swimming pools installed in Canada and the United States. For commercial pool installations, the warranty period is one (1) year from the date of purchase. Lodore also warrants all accessories and replacement parts—including remotes, actuators, base stations, temperature sensors, flow sensors—for a period of one (1) year from the date of purchase. This warranty applies only to the original owner and is non-transferable. Lodore is not responsible for any removal, reinstallation, service labor, shipping, or incidental costs associated with warranty claims.

Warranty Service Requirements

Proof of purchase is required for warranty service. If written proof of purchase is not provided, the manufacturing date code will be the sole determinant of the date of installation of the product. To obtain warranty service or repair, please contact the Lodore Technical Service Center:

Lodore Technical Service Center

1215 Twinney Dr. Newmarket, ON L3Y 9E1

Phone: (437) 9876173

Email: support@lodorepool.com

Web: www.lodorepool.com

Warranty Exclusions

1.   Material supplied or workmanship performed by others in the process of installation.

2.   Damage resulting from improper installation, including installation on pools larger than the product rating.

3.   Problems resulting from failure to install, operate, or maintain the product(s) in accordance with the recommendations contained in the owner's manual(s).

4.   Problems resulting from failure to maintain pool water chemistry in accordance with the recommendations in the owner's manual(s).

5.   Problems resulting from tampering, accident, abuse, negligence, unauthorized repairs or alterations, fire, flood, lightning, freezing, external water, degradation of natural stone used in or immediately adjacent to a pool or spa, war, or acts of God.

6.   Use of a non-genuine Lodore replacement salt chlorination cell on any Lodore automation or chlorination product will void the warranty for that product.

The express limited warranty above constitutes the entire warranty of Lodore with respect to its products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Lodore be responsible for any consequential, special, or incidental damages of any nature. Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary by jurisdiction.