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› Pentair IntelliTouch Standard Indoor Pool and Spa Control Panel (Model 520137) User Manual

Pentair 520137

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Comprehensive instructions for installation, operation, and maintenance.

1. INTRODUCTION

The Pentair IntelliTouch Standard Indoor Pool and Spa Control Panel, Model 520137, is designed to provide centralized control over your pool and spa's various functions. This system offers the flexibility to manage multiple circuits, enabling automation of pumps, heaters, lights, and other features for a complete backyard experience. This manual will guide you through the setup, operation, and maintenance of your IntelliTouch control panel.

2. SAFETY INFORMATION

Important Safety Instructions:

- Read and follow all instructions carefully.
- Installation must be performed by a qualified professional in accordance with all local electrical codes.
- Disconnect power before servicing or performing any maintenance.
- Do not operate the control panel if it appears damaged.
- Keep the control panel dry and away from direct water exposure.

3. PRODUCT OVERVIEW AND COMPONENTS

The IntelliTouch control panel features a clear digital display and intuitive buttons for managing your pool and spa settings.



Figure 1: Pentair IntelliTouch Standard Indoor Pool and Spa Control Panel. This image displays the front of the control panel, featuring a central LCD screen surrounded by control buttons and indicator lights. The screen shows functions such as SPA, POOL, SPA WTRFALL, CLEANER, SPA SAL, MUSIC, FIBER WORKS, JETS, and FOUNTAIN, along with current spa temperature, set temperature, time, and air temperature. Buttons for MENU, HEAT, LIGHTS, and DISPLAY are located below the screen.

Key Interface Elements:

- **Digital Display:** Shows current status, temperatures, time, and available functions.
- **Function Buttons (Left & Right):** Activate or deactivate specific pool/spa features (e.g., SPA, POOL, JETS, FOUNTAIN).
- **Indicator Lights:** Green LEDs next to function buttons indicate active status.
- **Navigation Buttons (Bottom):** Access menus, adjust heat settings, control lights, and change display options (MENU, HEAT, LIGHTS, DISPLAY).

4. SETUP AND INSTALLATION

Installation of the IntelliTouch control panel should be performed by a certified electrician or pool professional. This section provides a general overview; refer to the detailed installation guide provided with the main IntelliTouch system for specific wiring diagrams and mounting instructions.

1. **Mounting:** Select a suitable indoor location, ensuring it is dry, easily accessible, and within recommended cable length of the IntelliTouch power center.
2. **Wiring:** Connect the control panel to the IntelliTouch power center using the specified communication cable. Ensure all connections are secure and follow local electrical codes.
3. **Power On:** Once all connections are verified, restore power to the IntelliTouch system. The control panel display should illuminate.

4. **Initial Configuration:** The system may require initial programming or synchronization with the main IntelliTouch power center. Follow the on-screen prompts or refer to the main system manual for these steps.

5. OPERATING INSTRUCTIONS

The IntelliTouch control panel allows for easy management of your pool and spa features.

5.1 Activating Functions

- To activate a function (e.g., SPA, POOL, JETS, FOUNTAIN), press the corresponding button next to the desired label on the display.
- A green indicator light next to the button will illuminate, confirming the function is active.
- Press the button again to deactivate the function. The green light will turn off.

5.2 Temperature Control

- The display shows the current water temperature (e.g., "SPA 83°F") and the set temperature (e.g., "SET TEMP 100°F").
- Press the **HEAT** button at the bottom of the panel to access heating options.
- Use the navigation buttons (often the left/right buttons next to the display, or specific up/down buttons if available in the menu) to adjust the desired set temperature.
- The system will automatically activate the heater to reach and maintain the set temperature.

5.3 Menu Navigation

- Press the **MENU** button to access advanced settings and programming options.
- Use the function buttons on the sides of the display to scroll through menu options.
- Press the appropriate button to select an option or confirm a setting.
- Refer to the main IntelliTouch system manual for detailed menu structures and programming instructions.

5.4 Lights and Display

- Press the **LIGHTS** button to cycle through lighting options or turn lights on/off.
- The IntelliTouch system supports dimming for compatible high-voltage incandescent lights (up to 8 levels) if equipped with an IntelliTouch dimmer module.
- Press the **DISPLAY** button to adjust display brightness or view different information screens.

6. MAINTENANCE

The Pentair IntelliTouch control panel requires minimal maintenance.

- **Cleaning:** Wipe the display and buttons with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check the panel for any signs of damage or loose connections.
- **Software Updates:** Ensure your main IntelliTouch system software is up-to-date, as this may affect the control panel's functionality. Refer to the main system manual or Pentair's website for update procedures.

7. TROUBLESHOOTING

If you encounter issues with your control panel, try the following basic troubleshooting steps:

- **No Display/Power:** Check the power supply to the main IntelliTouch power center. Ensure all communication

cables are securely connected.

- **Unresponsive Buttons:** Gently clean around the buttons to ensure no debris is obstructing them. If the issue persists, a system reset (refer to main system manual) might be necessary.
- **Incorrect Readings:** Verify that sensors connected to the main IntelliTouch system are functioning correctly.
- **System Malfunction:** If the control panel or system behaves erratically, power cycle the entire IntelliTouch system (turn off power at the breaker for a few minutes, then restore).

For more complex issues, consult the comprehensive troubleshooting section in your main IntelliTouch system manual or contact Pentair customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	520137
Brand	Pentair
Dimensions (L x W x D)	12.2 x 9.4 x 5.2 inches
Item Weight	1.9 pounds
Compatibility	Pentair IntelliTouch Automation Systems
Control Functions	5 to 40 circuits (pump, heater, lights, features)

9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Pentair website.

For technical support, replacement parts, or further assistance, please contact Pentair Customer Service:

- **Website:** www.pentair.com
- **Phone:** Refer to the Pentair website for regional contact numbers.