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Intex swimming pool pump instructions

Before setting up your Intex SX2100 Krystal Clear Sand Filter Pump, take some time to familiarize yourself with the parts included in the package. No tools are required for assembly. To set up the pool outlet strainer and plunger valve (optional): 1. Unscrew the plunger valve union from the threaded connector. 2. Remove the strainer nut and washer, then install the strainer at the lower pool outlet position. 3. Lubricate the threads with petroleum jelly before screwing the strainer nut back onto the connector. 4. Finger tighten the strainer nut. 5. Reassemble the plunger valve union by screwing it back onto the connector. Repeat these steps for the pool inlet nozzle and plunger valve setup (optional): 1. Unscrew the plunger valve union from the inlet threaded air connector. 2. Remove the strainer nut and washer, then install the nozzle at the upper pool inlet position. 3. Lubricate the threads with petroleum jelly before screwing the strainer nut back onto the connector. 4. Finger tighten the strainer nut. Remember to carefully check the contents of your package and become familiar with all the parts before assembly. 1. Place the adjustable pool inlet jet nozzle (27) and strainer nut (24) onto the inlet threaded air connector (42). 6. Ensure the step washer (23) is in place before proceeding. 7. Install the air jet valve (39) over the inlet threaded air connector (42), ensuring it's securely tightened and facing upwards. In a clockwise motion, screw the plunger valve union back onto the connector (see drawing 7). 8. Turn the plunger valve handle to close position in a clockwise motion. Verify that the valve is securely closed to prevent water from flowing out during filling. 9. Adjust the nozzle head direction away from the pool outlet for optimal circulation results (see drawing 9). 10. The pool liner is now ready for filling with water. Refer to your owner's manual for filling instructions. 11. Note: Do not cover the air jet valve (39) with the valve cap (44) under normal conditions or when the pump is operating. 12. For product specifications, refer to the following: The sand filter removes suspended particles but does not sanitize your pool. Consult a local pool service specialist for details on pool chemistry. 13. Tools required: One (1) Phillips screwdriver Setup instructions: Pump location and mounting: • Install the system on a solid level and vibration-free base. • Provide protection from weather, moisture, flooding, and freezing temperatures. • Ensure adequate access, space, and lighting for routine maintenance. • The pump motor requires free airflow for cooling; avoid installing in damp or non-ventilated locations. Team of 2 or more people recommended for setup. Motor pre-filtering assembly setup: 1. Carefully remove the sand filter and accessories from packaging and inspect for damage. 2. Unscrew the leaf trap cover (35) from the pre-filter housing in a counter-clockwise motion, then remove the basket (16) and filter housing nut (17). 3. Connect the pre-filter housing to the motor water inlet; align the connector with the water inlet on the motor (see drawing 11). 4. Screw the filter housing nut (17) onto the motor water inlet in a clockwise motion (see drawings 12.1 & 12.2). 5. Replace the basket (16) and leaf trap cover (35) back to the pre-filter housing (see drawings 13.1 & 13.2). Sand tank installation: 1. Place the tank support base at the selected location. 2. Position the tank on the tank support base (see drawing 14.1). 3. Connect the motor pre-filtering assembly unit to the tank support base (see drawing 14.2). Note: Ensure the pre-filter housing water inlet hose connection faces towards the pool. Important: Some countries may require securing the product to a platform or ground in an upright position; check local regulations before installation. 1. Install mounting hardware by bolting the platform to a stable base or ground, ensuring accidental falls are prevented. • Mounting holes for model SF80110-2 have a diameter of 6.4 mm, spaced 210 mm apart, while those for models SF70110-2 and SF60110-2 are spaced 224 mm apart. • Use up to 6.4 mm-diameter bolts with lock nuts. 2. Load sand into the tank using No. 20 silica sand or glass sand with a particle size range of 0.45 to 0.85 mm and Uniformity Coefficient less than 1.75. • Place the sand shield over the center pipe, then pour in slow increments until half full; remove the shield, evenly distribute sand, and fill the tank with water to cushion the remaining sand. • Sand should be filled between "MAX" and "MIN" marks on the center pipe. 3. Install the 6-way valve by ensuring the bypass pipe fits securely into the center pipe hub. • Lower the valve slowly, aligning the outlet connection with the pool and the inlet connection with the motor outlet. • Place an L-shape o-ring on the valve connections and secure the clamp around the tank and valve flanges. 4. Connect hoses to the 6-way valve ports. • Connect one hose end to the pre-filter inlet and the lower plunger valve with a strainer; tighten hose nuts securely. • Ensure the third port is directed towards a proper draining receptacle using a hose or pipe (not provided). 1. All parts in grey are part of the pool set package and should be used for assembly purposes only. If you have purchased a pump as a separate unit, refer to the owner's manual for more information. For non-INTEX pools, attach the hose (12) to the pool inlet/outlet connection using a large clamp and secure it tightly. INTEX pools with 1-1/4" connections/hoses require that the air jet valve (39) be tightened securely onto the pool inlet air adaptor (43), facing up. 1. Set up the pump by switching it on for about a minute to level out the sand bed after backwashing. 2. Switch off the pump, change the valve to "FILTER" position (as shown in drawing 23), and then switch it on again. 3. Continue running the pump until the desired pool water clearance is obtained, but not more than 12 hours a day. 4. Record the initial pressure gauge reading when the filter media is clean. 5. Be prepared for frequent backwashing during initial setup due to heavy dirt in the water and sand, but this should decrease as the filter removes impurities. 6. If there is no vacuuming device attached, check the pressure gauge reading weekly to ensure it's not in the yellow zone; if so, backwash the sand media. 7. Remove any vacuuming devices from the system and check the pressure gauge reading after doing so. Before filling and during the pool season consult local suppliers for guidance. Season's first fill may require special water additives due to brackish water, and pH levels must be balanced before allowing swimming. Chlorinated water can harm lawns, gardens, or shrubbery. When emptying the pool for storage or relocation, direct water into an acceptable receptacle away from the house. Check local regulations for specific disposal instructions. Disconnect power cord, then remove hoses and strainers from pump valves after draining tank completely. Disassemble pump motor, leave pieces outside to dry thoroughly, and coat specified O-rings with petroleum jelly. Set 6-way valve to "N" position to drain water before storing the pump motor in original packaging, keeping it away from condensation or corrosion. Store accessories in a controlled environment between 0°C to 40°C (32°F to 104°F). Troubleshooting guidelines for faulty filter and poor cleaning: - Filter motor won't start: Check if it's plugged into a GFCI/RCD outlet and reset circuit breaker. - Improper pH or chlorine levels: Adjust them according to local supplier instructions. - No filtering media in tank: Load with sand, consult "sand loading instructions". - Wrong valve setting position: Set to "FILTER" position. - Excessively dirty pool: Operate filter for longer periods. For other issues, refer to detailed troubleshooting guide within the text. Possible issues with the filter system include: • Low water flow due to a clogged inlet or discharge. Resolve this by clearing any obstructions in the intake hose and tightening hose nuts. • A slow-moving filter can be caused by dirty pool water, sand media clogged with dirt, or crusting on the filtering sand surface. Regularly clean the pre-filtering basket and backwash the filter to resolve these issues. • Incorrect nozzle and strainer connections may also cause a slow flow rate. Ensure that the nozzle is installed at the upper position of the pool inlet and the strainer at the lower position of the pool outlet. • Other potential causes include air leaks on the intake line, excessive hose damage, or clogging within the sand tank o-ring. • Issues with the pump itself may be due to low water level, a clogged strainer screen, or faulty motor or impeller. • Leaks in the system can occur at various points, including the 6-way valve/cover, hoses, or air jet valve. Common causes include loose hose nuts, damaged o-rings, or incorrect connections. • Timer inaccuracies may be due to an inner timer defect and require professional attention from Intex service center. • Failure of other components such as pressure gauges can also occur due to clogging or damage, requiring contact with the Intex service center for repair. Green Algae Issues: * Greenish water * Green or black spots on the pool liner * Slippery and smelly conditions due to low chlorine levels * pH imbalance: adjust to recommended level by super chlorinating with shock treatment * Vacuum the pool bottom for proper filtration Colored Water Issues: * Discoloration after adding chlorine (blue, brown, or black) * Oxidation of copper, iron, or magnesium in water * Adjust pH level according to recommended store guidelines * Run filter until clear water is obtained Floating Matter in Water: * Cloudy or milky appearance * High pH levels causing "hard water" * Low chlorine content: correct pH and adjust chlorine level with advice from pool dealer Chronic Low Water Level Issues: * Lower than previous day's level * Damaged liner or hoses, loose drain valves * Repair using patch kit for liners or tightening caps Sediment on Pool Bottom: * Dirt or sand accumulation due to heavy use * Use Intex pool vacuum for cleaning the bottom Surface Debris: * Leaves, insects, and other debris accumulation near the pool * Pools too close to trees; use skimmer to remove debris