56-FRAME VIPER EURO PUMP - SAFETY INSTRUCTIONS

SAVE THESE IMPORTANT SAFETY INSTRUCTIONS
ALL ELECTRICAL INSTALLATIONS SHOULD BE PERFORMED BY QUALIFIED ELECTRICIANS

2-SPEED MODELS: DO NOT wire both speeds to run simultaneously. If supply cord is damaged, replace only with original replacement equipment available from authorized dealer.

DO NOT install within an outer enclosure or beneath the skirt of the spa unless so marked.
WARNING: To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

DO NOT run the pump without water.
CAUTION: DO NOT RUN THE PUMP WITHOUT WATER.

PUMP CONNECTIONS INSTALLATION INSTRUCTIONS
LOCATION: Place pump on level surface. Pump must be installed below water surface. Shut off valves should be installed on both the inlet and outlet of the pump for future maintenance.
Installation area should be clear of any direct water and have adequate floor drainage. Pump should be protected from excessive moisture.

STARTING AND PRIMING PUMP
Before turning the power on, be sure that:
1. There is an adequate amount of water in the system.
2. All valves are open to allow water circulation.
3. All connectors and fittings are properly aligned and secured.
4. All electrical connections are proper.
CAUTION: DO NOT RUN THE PUMP WITHOUT WATER. If the pump fails to prime within 30 seconds, turn it off and check for an air lock, clogged plumbing or closed valves. If the pump will not start or prime, see the troubleshooting section in the manual.

MAINTENANCE INSTRUCTIONS
Keep the motor clean. Ensure that the louvered openings are free from debris and obstructions. Over a period of time, the shaft seals may become damaged or worn and must be replaced.
WINTERIZATION - To prevent damage during freezing conditions, disconnect all electrical connections and plug with a water heater.

SAVE THESE IMPORTANT SAFETY INSTRUCTIONS
ALL ELECTRICAL INSTALLATIONS SHOULD BE PERFORMED BY QUALIFIED ELECTRICIANS

2-SPEED MODELS: DO NOT wire both speeds to run simultaneously. If supply cord is damaged, replace only with original replacement equipment available from authorized dealer.

DO NOT install within an outer enclosure or beneath the skirt of the spa unless so marked.
WARNING: To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

DO NOT run the pump without water.
CAUTION: DO NOT RUN THE PUMP WITHOUT WATER.

PUMP CONNECTIONS INSTALLATION INSTRUCTIONS
LOCATION: Place pump on level surface. Pump must be installed below water surface. Shut off valves should be installed on both the inlet and outlet of the pump for future maintenance.
Installation area should be clear of any direct water and have adequate floor drainage. Pump should be protected from excessive moisture.

STARTING AND PRIMING PUMP
Before turning the power on, be sure that:
1. There is an adequate amount of water in the system.
2. All valves are open to allow water circulation.
3. All connectors and fittings are properly aligned and secured.
4. All electrical connections are proper.
CAUTION: DO NOT RUN THE PUMP WITHOUT WATER. If the pump fails to prime within 30 seconds, turn it off and check for an air lock, clogged plumbing or closed valves. If the pump will not start or prime, see the troubleshooting section in the manual.

MAINTENANCE INSTRUCTIONS
Keep the motor clean. Ensure that the louvered openings are free from debris and obstructions. Over a period of time, the shaft seals may become damaged or worn and must be replaced.
WINTERIZATION - To prevent damage during freezing conditions, disconnect all electrical connections and plug with a water heater.

WARRANTY
For product registration visit: www.waterwayplastics.com.
For Warranty questions or claims please contact point of purchase.

MODEL PV-25-1N22X PV-30-1N22X PV-25-2N22X PV-30-2N22X
FREQUENCY 50 Hz 50 Hz 50 Hz 50 Hz
HMAX HIGH SPEED 9,2 m 9,4 m 9,0 m 9,5 m
LOW SPEED -- -- 2,4 m 2,5 m
AMP HIGH SPEED 7,6 A 8,0 A 7,5 A 7,5 A
LOW SPEED -- -- 1,5 A 1,5 A
MAX. WATER TEMP. 40°C 40°C 40°C 40°C
IP X5 X5 X5 X5

Designed, Engineered & Manufactured in the USA.
**Motor Won't Start:**
- Check voltage at terminals with voltmeter.
- If 0 volts: Fuse/breaker or tripped GFI.
- If low volts: Defective external switch or wiring.
- If proper voltage: Incorrect or loose connections.

**Motor Hums Won't Start:**
- Check voltage at terminal with voltmeter.
- If voltage is not within 10% of nameplate, call electrician.
- If proper voltage: Tight pump or replace fuse/reset breaker.

**Motor Runs, Then Stops:**
- Check for motor overload by checking amp draw at motor terminal with ammeter.
- Amp draw should be within 10% of nameplate.
- If motor is not overloaded: Incorrect line voltage.
- If motor is overloaded: Incorrect wiring.

**Pump Runs, No Flow:**
- Check shaft off values:
  - Valves closed (open valves).
  - Check to see that pump is below water level:
  - Pump above water level (replace pump below water level).
  - Check shaft off values:
  - Air lock (remove drain plug until water flows from pump, replace drain plug and start pump).

**Pump Runs, Not Enough Flow:**
- Visible air bubbles in return line:
  - No air in return line (check to see that valves are completely open).
  - Check filter pressure gauge:
  - Dirty impeller or filter (clean filter or impeller).
  - Check filter:
  - Replumb pump below water level.

**Viper Euro Pump Assembly**