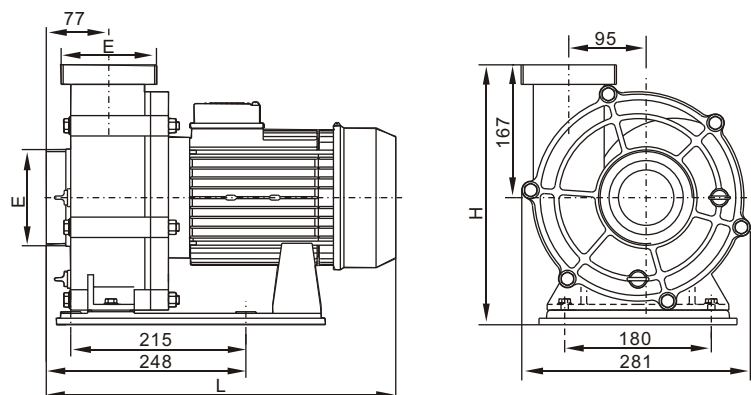
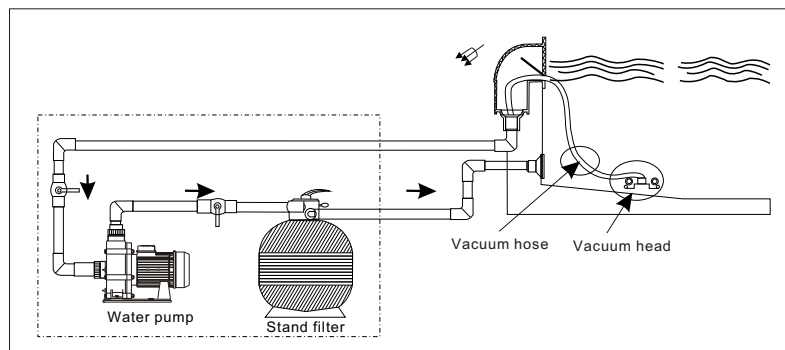


Installation diagram



Model	Qmax (l/min)	Hmax (m)	Power P ₁ (kW)	L	H	E
WTB220(T)	1100	11	2.2	412	323	G2 ³ / ₄ or 4FBT
WTB250(T)	1210	11.5	2.5			
WTB300T	1300	13	3.0			
WTB400T	1500	17.5	4.0			
WTB550T	1500	23	5.5	469	335	

V / Hz esp: See pump nameplate. Liquid temperature: 4°C ~ 50°C
Storage temperature: -10°C ~ +50°C. Relative Air Humidity: 95% Max.

WTB250 can be connected only to a supply with system impedance no more than 0.134 ohm. In case necessary, please consult your supply authority for system impedance information.

Edition: 2018-01 (b)



SWIMMING TRAINING PUMP INSTRUCTION MANUAL WTB SERIES PUMPS

IMPORTANT SAFETY INSTRUCTIONS

This appliance must be installed by qualified electrician according to national wiring rules.

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

- 1. READ AND FOLLOW ALL INSTRUCTIONS**
- 2. WARNING** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- 3. WARNING** Risk of Electrical Shock. Connected only to grounding type receptacle protected by a ground fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by GFCI.
- 4. CAUTION** Do not bury cord. Locate cord to minimize abuse from lawnmowers, hedge trimmers, and other equipment.
- 5. CAUTION** In case the running parts will injure people, don't make the electric pump running before then pipeline have been connected.
- 6. WARNING** To reduce the risk of electrical shock, replace damaged cord immediately.
- 7. WARNING** To reduce the risk of electrical shock, do not use extension cord to connect unit electric supply; provide a properly located outlet.
- 8. CAUTION** The pump is suitable for swimming pool.
- 9.** Do not install within an outer enclosure or beneath the skirt of a hot tub unless so marked.
- 10.** This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- 11.** Keep the appliance and its cord out of reach of children less than 8 years.
- 12.** Children should be supervised to ensure that they do not play with the appliance.
- 13.** Household use only.
- 14.** Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- 15. SAVE THESE INSTRUCTIONS**



Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

1. General

These instructions are for correct installation, and optimum performance of the swimming pumps, so they should be read carefully. These are single-stage centrifugal pumps designed to operate with compact hydromassage equipment. They are equipped with a total-emptying system to prevent the discharge of residual liquid in each stopping. These units are designed to operate with clean water at a maximum water temperature of 50°C.

Built of top quality materials, they are subjected to strict hydraulic and electrical controls and are carefully verified.

Correct installation is ensured by following these instructions and those of the wiring diagram; otherwise, over loads may be produced in the motor. We decline responsibility for any damage caused by not following these instructions.

2.Installation



The pumps should be installed horizontally, securing them with screws through the holes in the supports to prevent undesirable noise and vibration.

The suction, pipe of the pump should be as short as possible.

The rating Label must be visible after installation. Parts containing live parts, except parts supplied with safety extra low voltage <12V, must be inaccessible to a person in the swimming. Class I appliances must be permanently connected to fixed wiring. Part including electrical components except remote control devices must be located or fixed so that they cannot into swimming.

3.Pipe Assembly

The suction and discharge pipes should have a diameter equal to or greater than that of the intake tapping of the pump.

Avoid traps as, in addition to affecting efficiency, they impede total overall emptying.

The suction and discharge pipes should not rest on the pump in any case.

Seal all the connectors and unions well. Avoid any dripping on the motor, which would unfailingly damage it.

4.Electrical connection

The electrical installation should have a multiple separation system with contacts opening at least 3mm.



For continued protection against possible electric shock this unit is to be mounted to the base in accordance with the installation instructions.

The protection of the system should be based on a residual current device (RCD) with a rated tripping current not exceeding 30mA. The supply cable should comply with EMC standards (2). Single-phase motors have built-in thermal protection. The three-phase motor without thermal protection, it must be protected by external installed protective device to protect against phase disconnect, overload and motor rotor locked. The electric connection must be carried out by qualified staff following strictly the "EN60335-2-41" standard.

Be sure that the earth cable connection is correctly made.

Be sure that the equipotential connection between the bath and the pump is correctly made.

Wires serving as equipotential bonding conductors shall have a cross sectional area between 2.5 and 6mm² and shall be equipped with the terminal suitable receptacle.

Three-phase electric pump Power line must be installed by a professional electrician professional qualifications according to the wiring diagram of the suppliers to provide installation, Conductors of supply cords shall have a nominal cross-sectional area not less than that shown in IEC60335-1: 2010 Article 25.8 Table 11.

5.Controls Prior to Initial Start-up



Verify that the pump shaft turns freely.

Check that the mains voltage and frequency are according to the name plate.

The hydromassage assembly should be equipped with a system to prevent the pump from starting up if a minimum water level is not present.

Check the rotating direction of the motor, which should concur with that indicated on the fan cover.

If the motor does not start up, try to locate the problem in the table of most common faults and their possible solutions that is provided further on.

THE PUMP SHOULD NEVER OPERATE DRY.

6.Start-up

Start electrically the pump only when the suction and discharge pipes are connected to the corresponding inlets and outlets. Check that there is no obstacle in the pipes.

Apply voltage to the motor and suitably adjust the jets to obtain the desired flow.

7.Maintenance and clean



Our pumps for hydromassage facilities do not require any special maintenance or programming.

If the pump will be idle for a long period of time, it is recommended to disassemble, clean and store it in a dry, well-ventilated place. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person to a hazard.

Pump can be automotive empty water after correct installation.

When the pump needs to clean (1) filling with water up to level position of swimming pool nozzle, (2) operating 2-3minute,(3) exhausting water of swimming after engine stop.



This appliance is not intended for use by persons (including children)with reduced physical, sensory or mental capabilities,orlack of experience and knowledge, unless they have been given supervision or instruction concerning use of the app liance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Type x attachment with specially prepared cord damaged supply cords must be replaced by a special cord or assembly available from the manufacturer or its service agent.

Type y attachment damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person to avoid hazard.

Type z attachment damaged supply cord cannot be replaced and the appliance shall be scrapped.

8.Trouble Shooting Guide

SYMPTOM	POSSIBLE CAUSE	CHECK
PUMP DOES NO TURN	NO POWER TO PUMP	-incoming power to the pump? -Is circuit breaker on? -Is GFCI operating properly? -Is the air switch plugged in?
PUMP NOT PUMPING PROPERLY	BLOCKAGE OR LEAK	-Jets should be pointed away from the suction inlet so air is not forced into pump suction -Is the in-tub suction inlet blocked or covered? -Is there any debris in the pump housing? -Is there a leak in the piping or the pump?
	LOW VOLTAGE	-Is the proper voltage applied to the pump? -Is there an extension cord being used?

Performance curves

