

3. The end user should use power supply cables in 3 x 3mm² or wider cable diameter. According to the National standards (GB). The socket should be of 30A or above according to the National standards (GB).
4. The end user should install air-break or leakage switch of 30A or above according to the National standards (GB).
5. Strictly check the power supply wiring of the control box. Power on to use only after no errors confirmed.
6. The electric appliances recommended by illegal manufacturers must not be connected to the controller. Unapproved dismantling and modification of the enclosed internal wiring are strictly prohibited. It is not allowed to connect or plug the wires and plug-in units on the power supply box during the power-on.
7. The connecting wires of the power supply box should be connected and plugged correspondingly according to the tags and specifications of the connectors. The output wires can not be short circuited each other.
8. After using, please cut off the power to avoid aging of the device.
9. The installation of the controller must be performed in strict compliance with the installation instructions by qualified persons.
10. No recoverable elements exist in the controller. Don't try to improve it by yourself for the high voltage in the controller can cause dangers. The maintenance and adjustment must be performed by professionals.

For any consequences caused by wrong operation, the user should bear the responsibility.

User's Guide

IMPORTANT:

Read this manual before proceeding with installation of the bathtub and keep it with the other accompanying documents.

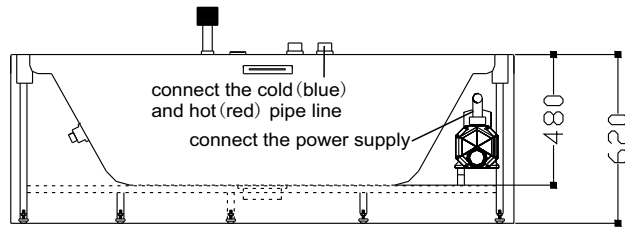
This manual is valid for the installation of tubs both with and without whirlpool.

Model: ML-214WP-inbouw

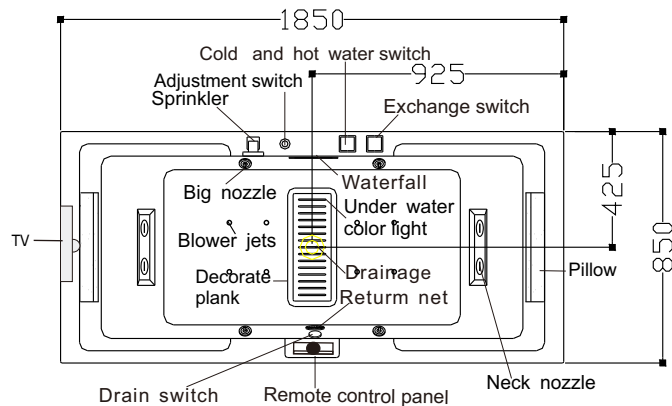
SIZE:1850X850X620mm



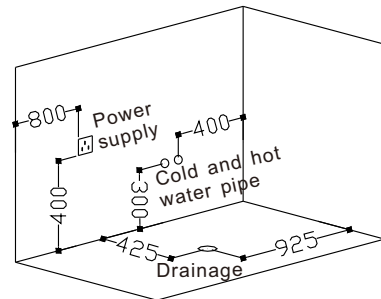
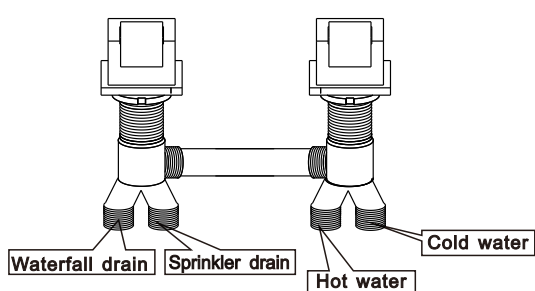
Install the diagram



Plane chart



Tap takes over sketch



9.2.1 Thermostatic heating function starts or stops according to the water temperature and set temperature (the temperature that the system defaults is 37°C) :

Controlling rule is as follows:

If the temperature \geq setting temperature + 1°C , stop heating and LCD heating symbol blinks ;

If the temperature \leq setting temperature - 1°C , start heating and LCD heating symbol displayed in dynamical way.

9.3 Press “  ” again to stop the function.

9.4 Temperature adjustment

9.4.1 When the thermostatic heating function is on, press “  ”

till “°C” on LCD blinks, then press “  ” or “  ” to adjust

the temperature. During the adjusting, LCD displays the setting temperature, then the temperature shall be increased /decreased

1°C after press “  ” “  ” once ; When pressing “  ”

or “  ” more that 2S, the temperature will increase or decrease

by “1°C / 0.5s” ; stop adjusting for 5 seconds, LCD shall display the current water temperature and system exit temperature adjustment.




9.5 Temperature setting range : 35°C -- 45°C

9.6 If the temperature sensor occurs error, LCD displays “E1” and the controller sounds “di...di...”, in this case the heater cannot be start.





IV、Precautions for Installation and Use




Users must carefully read the following precautions to ensure the normal use of the product, extension of its service life and the personal safety :





1. Users must install loads in strict compliance with the circuit diagrams and parameters supplied by our company.
2. The ground wire must be connected to the power supply line with good grounding.

8.4 When the FM radio is on, press  "till the LCD blinks "VOL", and then press " " to increase the volume and press " " to decrease the volume. The volume adjusting range is 0-20, and 21 in total.

8.5 Station storage/select





8.5.1 Station storage : when FM function is on and select the station frequency to be stored, press " " to select the location for storage "CH"and number below it shall blink, and press the icon " " " "to choose the location(1-18,all18); press the icon " ", the station frequency shall be stored in the selected storage location.And LCD will resume to current frequency.

8.5.2 Station select : When FM function is on, press " " the corresponding stored station can be selected by press " "and " "to choose from (1-18,all 18stations)

8.5.3 When pressing " "and entering a certain function state, within 5 S without pressing " ", " ", system will automatically exit that function operation state.Or by pressing " ", function choosing key to exit that function.

9 Thermostatic heating(the optional function)

9.1 This functions works only when the water pump surf function is on.

9.2 Press " " " " till the cursor moved to " ",and then press " "to start the thermostatic heating function.

1、Electricity parameter

Rated voltage	Rated power	Rated electric current	Reference circuit voltage
220VAC	2950W	<4A	12V

2、Electric installation

- 2.1 power supply's establishment should be compled with nation security standard, voltage and frequency also shoule be accord withproduct's nameplate.Especially install creep-age protect switch and also check whether can connect with ground.
- 2.2 The wire collected to the massage bathtub should be fitting permanent., and the wire should be a three-core wire, the sectional acreage of each core cannot less than 12A. when wire pass the wall,it should be use bushing for protection until the AC outlet.
- 2.3 Ground wire of bathtub should be test whether works with house appliance ground wire.
- 2.4 The wire end of electricity control box should connect to the control panel, water bottom light, loudspeaker, electrical engineering and the detector protection respectively.

3、Water supply device

- 3.1 This device's hydraulic pressure is 0.2-0.4Mpa.
- 3.2 The water supply characteristics on the wall: The cold or hot water supplies inside the bathroom also establish in the shelter of the massage tub, use the hose to connect with the cold or hot joint of the tub. the pipe towards is decide by the customer, the machine do not go with the hose.

4、Installation introduction

- 4.1 Before install, must consider the place of install massage bathtub whether can support this device's pressure.
- 4.2 Place the massage bathtub on the install position, adjust level to make the drain system smooth.
- 4.3 Adjust the leg's screw to make sure all of the screw touch ground completely.
- 4.4 Install the drain hose, and make some measure to against on the connecter.
- 4.5 Fix cold and hot water-pipe well, then install the showerhead. And then put drain into downcomer, finally connect with power and make sure whether device connected with ground can work.

5、Using Method

- 5.1 Turn on faucet, adjust water's temperature, add water to the massage bathtub.when the highest water level exceed the highest nozzle about 20-30mm and reach the detector, press the switch button to let the electric machine.
- 5.2 Revolve the adjust switch ,and choose the proper surf pressure.
- 5.3 After finishing if should turn off pump at first, then open drain button,when water is all out , please make a clean of bathtub to keep in good.

6、Clean and keep in good condition

- 6.1 usually use soft cloths and general liquid cleanser can wash away dirt , but forbid to use the cleanser with acetone or the ammonia composition;when disinfect, forbid to use the disinfecter contained the formaldehyde.
- 6.2 the dirty spot of surface can use the toothpaste to wipe with the soft cloth .
- 6.3 to the low-grade chafe of the surface or burned by cigarette, can soak in water to whet with 2000# levigation sand paper, then polishing.
- 6.4 If the electroplate piece contain stain, use the soft cloth to wipe lightly, avoid to wiping with coarse cloth.
- 6.5 often clean up the backwater net cover, prevent it from stop;

- 6.6 Check whether have break on pipe and waterway aperiodically.
- 6.7 Please check whether there is fall off or breakage on wire, switch,connector plugs so that repair in time.
- 6.8 In order to keep to use in a long term ,please remember, don't use more than 3 hours continually.

7、Fault eliminate

Fault	Cause	Way
Machine or equipment doesn't work	Voltage unstable	Check circuitry
	Power connector didn't connect well or open circuit	Insert again or change power line
	The windpipe connect air switch fall off or break	Connect again or change
	The air switch failure	Change
Big nose of machine	Power's parameter is not same as nameplate	Connect with supplier
	Fixed screw did'n fix or fall off	Fix tightly again
	Support's leg screw did not touch ground	Adjust
water pipe leak out	Aging	Change
	The joint did not fix well	Fix again
	Water pipe or accessory leak	Change

Remark: except this fault, please according to situation to resolve, or find experienced people to repair.

8、special remind



- 8.1 please find qualified people to install bathtub according to introduction.
 - 8.2 when you are using it, first of all you have to inject the cold water and then inject the hot water. Don't inject the hot water first.
 - 8.3 bathtub's machine must connect on ground, support must use 1.5mm²yellow/green double wire connect with ground and check whether effective.
 - 8.4 please do not turn on machine without water, before draining should turn off machine.
 - 8.5 children should be looked after in bathtub.
 - 8.6 bathtub's temperature can't higher than people average temperature, and the best is 32-37centigrade.
 - 8.7 after shower ,please cut off power.
 - 8.8 if have these situation ,please do not enter into massage bathtub.
 - 8.8.1 younger than 4 years old's child;
 - 8.8.2 blood circulation unstabled people;
 - 8.8.3 sot;
 - 8.8.4 suffer from flu;
 - 8.8.5 heart disease;
 - 8.8.6 already have sauna;
 - 8.8.7 after meal in half a hour;
- Remark: our company has the right to modify the above mention without further notice.


- 7.3 When the water level lowers than the setting value, pump stops working.
- 7.4 When the water surf pump function is on, and the system checks the water level lower than the setting value, water surf pump function stops automatically, at the same time the pump icon blinks. When any time the system checks the water level achieves the setting value, the icon stops blink and the pump starts to work.


8 FM Radio (when the ozone is on, FM will be turned of f automatically)



8.1 The FM frequency scope is 87.5MHz—108.0MHz.


8.2 When the system is on, press “”“”till the cursor

moved to “”, and then press “” to turn on the FM Radio






Function, at the same time, the LCD displays the current frequency and “FM”; press the icon “”again ,FM function stops while the current frequency and “FM” disappears.

8.3 When the FM function is on, press “” till the LCD blinks “FM” and “MHZ”, the system enter into the state of adjusting the frequency.

8.3.1 press “” to increase the length of one step (the length of one step =100KHz): Press this button over 2 seconds, the system searches the radio stations of larger frequencies automatically; the digital phase locked loop will lock the FM station automatically and the LCD shows the present frequency, when it reaches to the limit of 108.0MHz, press this button again and the frequency  jumps to 87.5MHz.

8.3.2 Press “” to decrease the length of one step (the length of one step =100KHz). Press this button over 2 seconds, the system searches the radio stations of smaller frequencies automatically; the digital phase locked loop will lock the FM station automatically and the liquid crystal shows the frequency of this station; When it reaches to the limit of 87.5MHz, press this button again and the frequency jumps to 108.0MHz.





3.LAMP


When the system is on, press continuously  and  till the cursor is on “”; then press “”, lamp is turned on ; press “” another time, lamp is turned off.

4. Lock

If no operation with the control panel for 3 minutes, all the keys will be locked except “LOCK”, LCD displays “LOCK”.
When the keys were locked, press any key for 3 seconds, the keys will be unlocked after a“di...”, icon“LOCK”disappear.





5 Ozone (FM radio on, ozone will be turned off automatically)

5.1 When the system is on, press continuously “、” , when the cursor is on “”press “” ozone will be started.

And LCD symbol will be displayed dynamically. Press “” again, ozone will be turned off.





5.2 ozone will be turned off automatically after being started 10 minutes.

6 Blower

When the system is on, press continuously “” “”till the cursor moved to “”,and then press “”to start the blower, the cursor blinks ; press again, blower is stopped.

7 Water pump surf

7.1 The water checking device of this controller protects the water pump from burning out.

7.2 When the system is on, press“” “”till the cursor moved to “”,while the water level achieves the setting value , and then press “”to start the pump, the cursor blinks ; press again, Water pump surf is stopped.

Bathtub User’s Guide

WARNINGS

1. Please follow the instruction contained in the attached installation manual to ensure that the product is installed properly. the manufacturer will not be held liable for damages or injuries caused by improper installation.
2. Follow the instructions contained in this manual when using the product.
3. Before using the bathtub, check the local voltage that if reach to the rated voltage(pre-installation card).

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III.Operation of Control Panel

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I. Safety Precautions

【Warning】

1. In order to prevent fire or electric shock accident, do not expose the controller to the rain or humid environment. There are dangerous high-tension fittings inside the controller, therefore do not open the cover. Entrust the repairing work only to the qualified professional repairing personnel when repairing is required.
2. Without the clear approval from the controller manufacturer or its authorized units, any change or alternation to this controller might bring various inconveniences to the users when in use.

【Helpful suggestion】

1. In order to prolong the service life of this controller, the time interval for continuously turning on and off the machine must be over 30 seconds.
2. Please switch off the power after use.
3. The power supply used must be consistent with the voltage specified value indicated on this controller; otherwise it will not work, or even burn out the controller.
4. When installing this controller, carefully check if the load parameters are consistent with the parameters required by this controller, otherwise it will not work, or even burn out the controller.
5. If it is halted accidentally, please close and restart.

II. Brief Introduction

1.General Description of Functions

function		PB3133-2002
1	Lock	√
2	Pump	√
3	Blower	√
4	Thermostatic heating	√
5	Temperature sensor	√
6	Lamp	√
7	FM radio	√
8	Bluetooth speaker	X
9	MP3 player	X
10	Water level sensor	√
11	Ozone	*
12	Cleaning	X

Note: “*”stands for the optional function.

2.Controller System Including :

- 1) 1) Control panel (1) ;
- 2) Control box (1) .

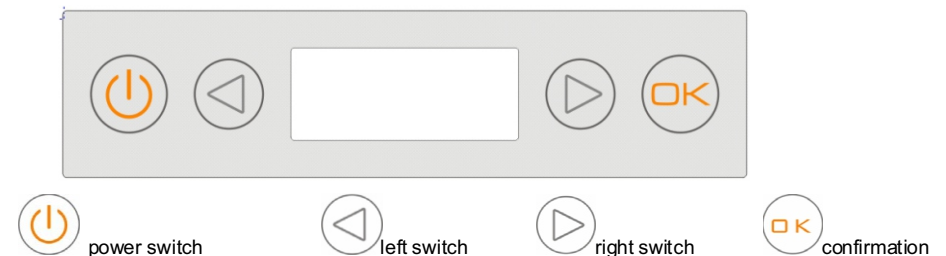
3.Characteristics of the Controller

- 1) Rated voltage : AC220V ~AC240V
- 2) Working voltage range : AC198V ~ AC242V
- 3) Rated power : 50HZ/60HZ
- 4) Power consumption : <10W (all loads OFF)
- 5) Applied ambient temperature : +5°Cæ°C

4.Devices controlled by the controlling system

- 1) Water pump surf : AC220V/1.5HP
- 2) Thermostatic heating : AC220V/2000W
- 3) Blower : AC220V/300W
- 4) Bottom lamp : DC12V/1W*2
- 5) Ozone : DC12V/6W
- 6) Loudspeaker : 8Ω/15W


5.Schematic Diagram of control panel



III Operation of Control Panel

1When any function button works, there is a sound of “di...”

2“” power

Press “” for 2 seconds to start the controller ,at the same time ,the lamp is turned on ; press the icon again to stop the controller and all the loads is turned off.