



# BakeMax BMW015 Water Meter Operations Manual



**Questions? OEM Parts, Contact Us:**

Toll Free: 1-800-565-2253

Email: [Info@BakeMax.com](mailto:Info@BakeMax.com)

[www.BakeMax.com](http://www.BakeMax.com)

**Warranty Registration**

[www.BakeMax.com/Warranty-Registration](http://www.BakeMax.com/Warranty-Registration)



# Warning & Safety

**PLEASE READ AND FOLLOW INSTRUCTIONS BELOW TO PREVENT INJURY OR DAMAGE TO THE PRODUCT**

BakeMax® (a registered trademark of Titan Ventures International Inc or TVI) is not responsible for any harm or injury caused due to any person's improper or negligent use of this equipment. The product shall only be operated by someone over the age of 18, of sound mind, and not under the influence of any drugs or alcohol, who has been trained in the correct operation of this machine, and is wearing authorized, proper safety clothing. This machine is intended for commercial use only. Any modification or miss use to the machine voids any warranty and may cause harm to individuals using the machine or in the area of the machine while in operation.

- When using the machine, please ensure that you have read all of the instructions within this manual.
- Be aware of your surroundings when using this machine, ensure there are no children or any other persons who are near the machine before operating.
- Do not put hand near moving parts.
- Remove all obstacles, which may interfere with machine functions.
- Keep work area clean and clear of clutter.
- Do not sit or stand on machine.
- Do not wear loose clothing or jewellery when operating machine as it may get caught in moving parts and cause injury.
- Stop using the machine and have it checked by an authorized service personal if it is not working properly.
- Disconnect from power source before performing and maintenance or cleaning on the machine.
- When the machine is not in use, please clean and store properly,
- Do not place any electrical parts or plug / cord in water or liquid.
- If the supply cord is damaged it must be replaced by an authorized service agent in order to avoid any electrical hazards.
- Keep power cord away from heat.
- Always ensure to follow local laws when operating your machine.

# **Initial Cleaning**

- This unit has been coated for shipping purposes, please clean before use.
- Do not use any liquid pressurised cleaning equipment on this machine.
- Disconnect power supply before cleaning.
- Only use food grade non-abrasive cleaning agents.
- Follow any additional cleaning / maintenance listed below.

# **Features & Specifications:**

The BakeMax BMWM015 Water Meter allows you to put specific amounts of water you need to help make perfect dough every time. Digital display can measure in gallons, liters, pounds and degree Celsius or Fahrenheit

- Saves time and easy to operate
- Use precise amount of water to make perfect dough every time.
- Capable of both temperatures displays: degrees Celsius and Fahrenheit.
- Digital display measures in liters, gallons, and pounds
- Flow rate 100-3000 L/hr
- Easy to calibrate
- 2 year limited warranty

# **Technical Specifications:**

- Electrical: 110v / 1amps / 60Hz / Nema 5-15P
- Dimensions (WDH): 12" x 4" x 13"
- Shipping Dimensions (WDH): 12"x17"x6"
- Shipping Weight: 15lbs

# **INITIAL CONFIGURATION.**

## **THERMOMETER TO DEGREES CELSIUS OR FARENHEIT**

### **THE FACTORY VALUE PROGRAMMED IS CELSIUS, FOR CHANGE TO FARENHEIT:**

1. - With the DISPENSER OFF, drive the IGNITION SWITCH to position I.
2. - While in the screen we can visualize 888, press simultaneously the keys BAJAR (DOWN) and MARCHA (ON), until in the screen indicates "End".
3. - Repeat the points 1 and 2 to return again to celsius.

## **LITRES OR GALLONS**

### **THE FACTORY VALUE PROGRAMMED IS LITER.**

#### **FOR CHANGE TO GALLONS:**

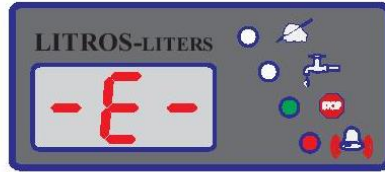
1. - Before ignite the equipment , maintain pulsating simultaneously the keys SUBIR (UP) and BAJAR (DOWN).
2. - Drive the IGNITION SWITCH to the position I. You will appear in screen the programmed pulse.
3. - Put 264 pressing SUBIR (UP) or BAJAR DOWN.
4. - In order confirm the value , press simultaneously the keys SUBIR (UP) and BAJAR (DOWN).

#### **FOR CHANGE TO LITERS.**

1. - Before ignite the equipment to maintain pulsating simultaneously the keys SUBIR (UP) and BAJAR (DOWN).
2. - Drive the IGNITION SWITCH to the position I. You will appear in screen the programmed pulse.
3. - Put 70 pressing SUBIR (UP) or BAJAR DOWN.
4. - In order confirm the value , to press simultaneously the keys SUBIR (UP) and BAJAR (DOWN).

## WARNING OF FAILURE OF ELECTROVALVE

1.-When the dispenser are STOP , if detects liquid passage by electroválve, will activate the acoustic signal of alarm and will visualize in the liters screen the error message -E -.



2.-To deactivate the alarm signal to press the key PARO (OFF)

3 -Disconnect the equipment of the current and repair the electroválve as rapidly as possible

## CONFIGURATION

### DISPENSER DECIMAL- NO DECIMAL

1. - With the DISPENSER OFF, to drive the IGNITION to position I.

2. - While in the screen we can visualize 888, before 3 seconds to press the key PARO (OFF)



**DECIMAL**

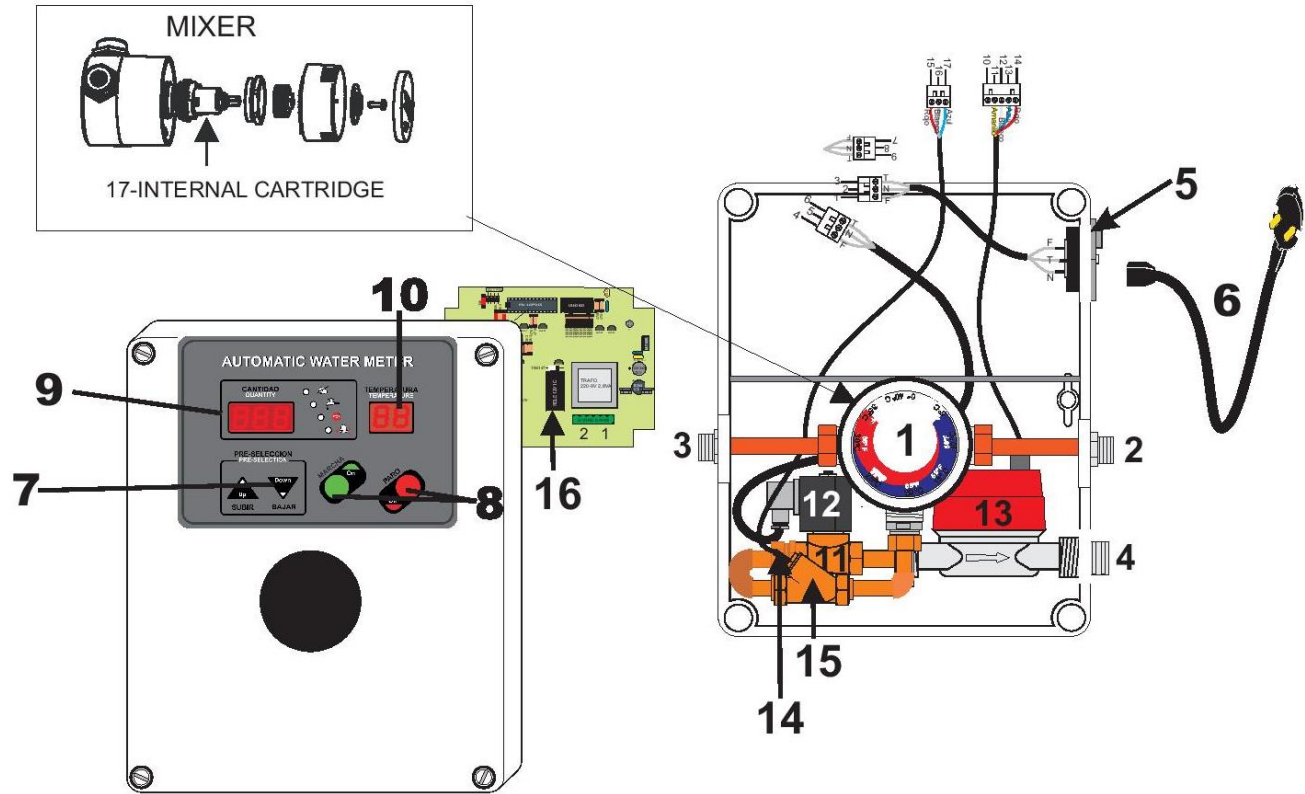


**NO DECIMAL**

NOTE: If in the screen appears the decimal point , you will indicate to us that the dispenser is prepared to work like DECIMAL. 99,9

3. - Repeat the points 1 and 2 to return to reshape the dispenser

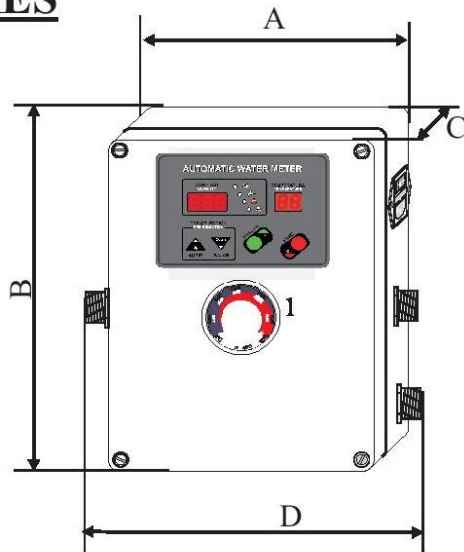
# MAIN PARTS OF THE EQUIPMENT



- 1.-WATER MIXER
- 2.-HOT WATER ENTRANCE
- 3.-COLD WATER ENTRANCE
- 4.- WATER EXIT
- 5.-SWITCH AND PROTECTION FUSE
- 6- NETWORK CABLE
7. PRESELECTION LITERS BUTTON
- 8.-ON BUTTON AND OFF BUTTON
- 9-LITERS/GALLONS SCREEN
- 10-WATER TEMPERATURE SCREEN
- 11- SOLENOID VALVE
- 12- SOLENOID VALVE COIL
- 13-LITERS SENSOR
- 14- TEMPERATURE SENSOR
- 15- WATER FILTER
- 16- ELECTRONIC CONTROL BOARD
- 17- INTERNAL CARTRIDGE

# GENERAL FEATURES

## MEASURES



**A = 250 mm**  
**B = 320 mm**  
**C = 135 mm**  
**D = 280 mm**

## TECHNICAL DETAILS.

PIPES CONNECTION.....3\4" Male

MAX. OPERATING PRESSURE.....10 BAR

MIN. OPERATING PRESSURE.....1 BAR

RECOMMENDED OPERATING PRESSURE.....2 - 4 BAR

MAX. PRESSURE DIFFERENTIAL BETWEEN ENTRANCES.....1,5 BAR

MAX. TEMPERATURE ENTRANCE HOT WATER .....50° C / 122°F

ADJUSTABLE TEMPERATURE.....0-40° C / 32°F-104°F

FLOW MIN..... 180 l/h / 47 g/h

FLOW MAX..... 2500 l/h / 660 g/h

MAX ERROR..... 2° C

POWER SUPPLY..... 110V-115V

FREQUENCY.....: 50-60 Hz

ELECTRICAL RATE..... 25 W

**THE HOT WATER DOES NOT HAVE TO SURPASS NEVER  
THE 50 ° C / 122°F, YOU CAN AGGRAVATE THE MIXER IRREVERSIBLY.**

# INSTALLATION

## ATTACHMENT TO WALL



- ◆ In order to hold the dispenser it both marks drills indicated for the fixation of the apparatus in wall, according to figure 1.

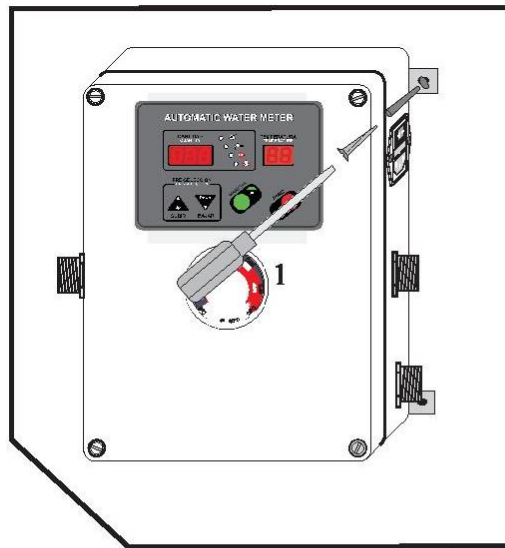
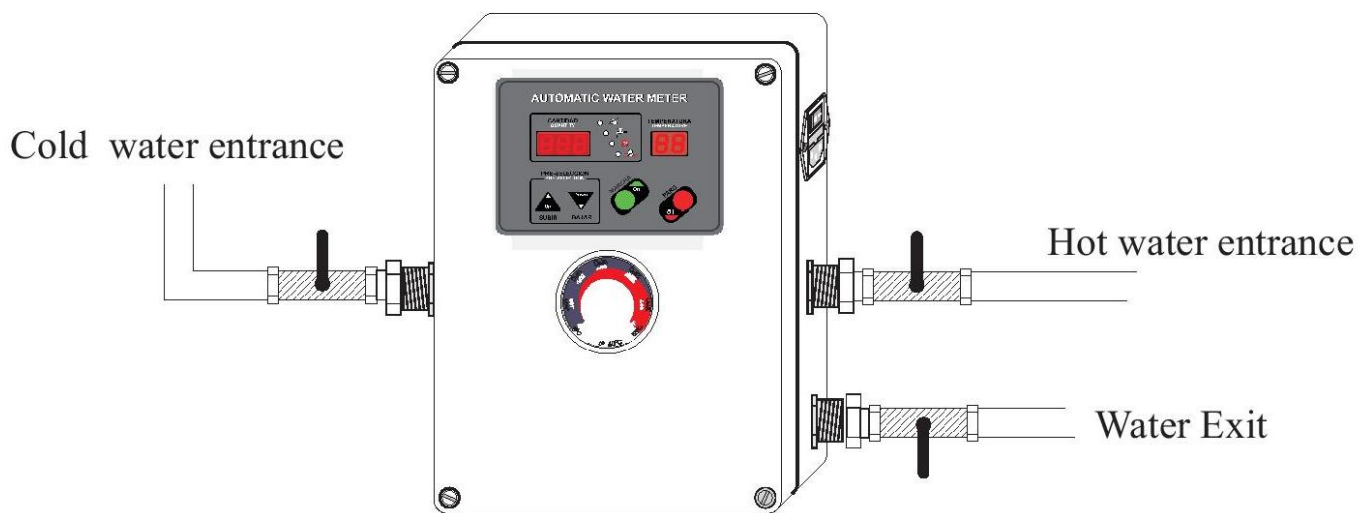


Figura 1.



## 4.2.- WATER CONNECTION

- ◆ To connect the cold water entrance (marked of blue) to the water cooler, and the hot water entrance (marked of red) to the network or a water heater.
- ◆ Connect the water exit with pipe or hose to make arrive the water until the kneader.



THE VALVES INSTALLATION IS RECOMMENDED AS IT IS INDICATED IN FIGURE 2. IN ORDER TO FACILITATE THE WATER METER EXTRACTION.

# OPERATION

1. - Drive the IGNITIONS WITCH to position I
2. - During 3 seconds visualizes in the screen 888



3. Select the liters/gallons wished by means of the UP BUTTON AND DOWN BUTTON



4. - To begin the metering process press the ON key. It will begin leave water and the liters/gallons will be discounting . When it arrive 0 , the liquid passage will be closing automatically.
5. - To repeat the process, press the up or down button to visualize the last preselected liters/gallons. To begin the metering process, repeat points 3. and 4.
6. - If during the process, for whatever reason you desire to interrupt the water exit , press the "OFF" button. The metering will be interrupted, and the remaining liters/gallons will stay in preselection. If you wishes to continue the process, press "ON" button. If you wishes to begin a new cycle, to repeat points 3. and 4.
7. - During the metering process you can visualize the flow in the installation, pressing simultaneously the UP and DOWN keys. (Litres /gallons min).
- 8.-With the mixer, we will select the water exit temperature . The mixer automatically will open or close the cold or hot water until by means of the mixture, we have the selected temperature. In the screen of the digital thermometer we can see the water temperature .

If the degrees are farenheit, to indicate more than 99 the numbers are intermitten, 23 intermitten is 123.

He is not recommendable to use the water to temperature superior to 99° Farenheit. If they wish to use water to superior temperature to ask for it and we will install a special IMPULSES METER for hot water

If the entrance water temperature changed, the mixer will correct this variation automatically to maintain the selected water temperature

Always select water temperature in the temperature margins of the cold and hot water. If we have the cold water temperature at 5 degrees, and requested to the mixer the water to 3 degrees, it will open totally the cold water passage but the temperature won't arrive at the 3 degrees, because the minimum is of 5 degrees.

### **TO CORRECT MIXER OPERATION**

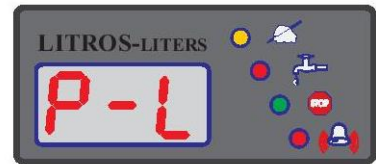
- 1) The pipes diameter always must be equal or superior to 18mm to guarantee the correct volume as well as the pressures to have to be equal or superior to 1 bar, being the ideal 3 bars in both entrances.
- 2) The inlet pressures the cold and hot water must be similar, if it is different upper 1.5 bars, the temperature regulation can be difficult
- 3) If the temperature the water mixed is very different from the selected one, you can adjust the mixer. Extract the cover and screw. Extract the graduated control and to put it in the real temperature that he leaves the mixed water.

## **AUTOMATIC TUNING PULSES**

ONLY TO MAKE IF THERE ARE MEASUREMENT ERROR

1-. Before ignite the equipment maintain pressed the “off” key.

-2 -Drive the IGNITION SWITCH to position I.  
We will see in the screen message “P-L”



3 - Prepare a container of known capacity for dosing him.

4 - Press the key MARCHA (ON) to begin dosing. In the screen we see appear the spilled amount of liquid, being the misadjusted dispenser.

. 5. - By means the key PARO (OFF) we can interrupted the metering process. Pressing MARCHA (ON) we can continued the metering.

6. - When we dosed the known liquid amount , press the keys SUBIR (UP) or BAJAR (DOWN) to correct the visualized amount.

7.-Pulsate simultaneously the keys SUBIR (UP) and BAJAR (DOWN) To confirm the real value dosed water.

8. - During 2 seconds it will appear in screen the new value of pulse calculated by the dispenser

## **MANUAL TUNING PULSES FOR LITRES OR GALLONS**

1. - Before ignite the equipment to maintain pulsating simultaneously the keys SUBIR (UP) and BAJAR (DOWN).

2. - Drive the IGNITION SWITCH to the position I. You will appear in screen the programmed pulse.

3. - To fit to the value of pulses liter pressing SUBIR (UP) or BAJAR DOWN.

FOR LITERS 70 PULSES

FOR GALLON UK 318 PULSES

FOR GALLONS 264 PULSES

FOR PINTAS UK 39 PULSES

4. - In order confirm the value fit in the screen, to press simultaneously the keys SUBIR (UP) and BAJAR (DOWN).

THE FACTORY VALUE PROGRAMMED IS 70.(FOR LITER) IF WE PUT A SUPERIOR NUMBER THE METER WILL LET PASS MORE WATER. IF WE PUT A INFERIOR NUMBER WILL LET PASS LESS WATER

# Warranty & Service

---

One year parts and labor limited warranty on most items, there are select items which carry a two year warranty. Extended warranty is available on some products. Contact us for details.

For all warranty claims, proof of purchase is required.

Warranty begins 10 days after shipping from warehouse; delays in installation which would extend the warranty must be approved.

All equipment must be installed and connected by qualified professionals in accordance with the manual specification.

Any abuse of equipment or improper use of machinery will void the warranty. Including failure to follow all instructions in operations manual. Properly install, maintain equipment, follow capacity charts, or electrical information.

Accessories, attachments, or electrical components such as fuses, bulbs, elements and switches are covered under a 90 day warranty. Repairs include Parts and Labor only, excluded is the following:

1. Overtime Labor Rates
2. Expedited Freight for Parts
3. BakeMax assumes no responsibility for down time or loss of product. All defective parts must be returned to BakeMax for credit. Repairs must be pre-authorized by BakeMax prior to work commencing.
4. Travel time is not covered by BakeMax, unless pre-authorized by BakeMax.

## Bench Warranty (Machines Weighing 100 lb or less)

For all warranty claims proof of purchase is required to claim warranty. One year parts and labor warranty, from date of purchase.

Once machine is approved for warranty, the machine is to be shipped prepaid to authorized service depot. Customer will ship machine prepaid to authorized service depot. If machine requires warranty work in less than 30 days of purchasing BakeMax will pay all shipping charges. (Freight damages during shipping for warranty is the responsibility of the owner of the machine.)

Once machine is received and repaired it will be returned to the user at BakeMax expense.

***\*\*BakeMax machines sold outside of the continental North America will carry one year parts warranty only.***



Titan Ventures International (TVI)  
270 Baig Blvd, Suite A3, Moncton, NB E1E1C8  
Toll Free: 1-800-565-BAKE (2253)  
Telephone: 1-506-858-8990  
Fax: 1-506-859-6929  
Email: Info@BakeMax.com

*BakeMax is a Registered Trade Mark of Titan Ventures International Inc.*

---

## BakeMax ® / Titan Ventures International Inc.

### Warehouses:

270 Baig Blvd, Suite A3, Moncton, NB E1E1C8   
1605 Crescent Circle, Dallas, TX 75006 

**Toll Free:** 1-800-565-BAKE (2253)  
**Phone:** 506-858-8990  
**Fax:** 506- 859-6929  
**Email:** Sales@BakeMax.com