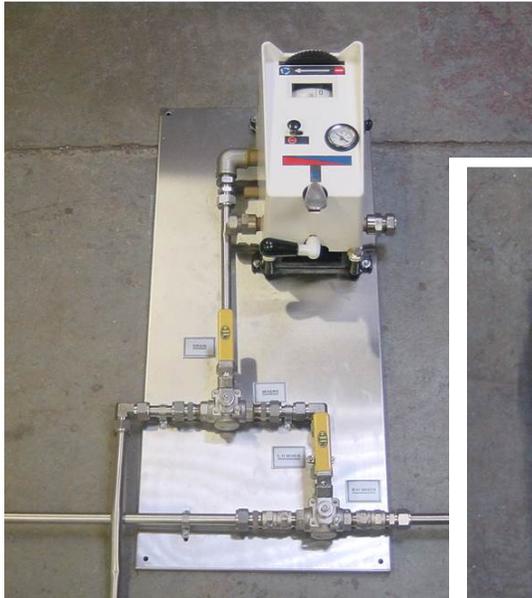




[www.monoequip.com](http://www.monoequip.com)

Enter **Serial No.** here. \_\_\_\_\_

In the event of an enquiry please quote this serial number.



## OPERATION AND MAINTENANCE MANUAL

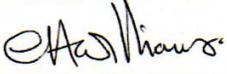
# TWIN WATER METER



## DECLARATION OF CONFORMITY

We hereby declare that this machine complies with the essential health and safety requirements of :-

- The Machinery Directive 2006 / 42 / EC
- The Low voltage Directive 2014 / 35/ EC
- The requirements of the Electromagnetic Compatibility Directive 2004 / 108EC, 91 / 263 / EEC, 92 / 31 / EEC  
Incorporating standards  
EN55014-1:2006+A1:2009+A2:2011  
EN55014-2:1997+A1:2001+A2:2008
- The General Safety of Machinery and food processing Standards applicable
- Materials and Articles intended to come into contact with food Regulation (EC) No. 1935 / 2004

<b>Signed</b>	
G.A.Williams – Quality Manager	

<b>Date</b>	
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<b>Machine FG Code.</b>		<b>Machine Serial No.</b>	
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A technical construction file for this machine is retained at the following address:

**MONO EQUIPMENT**  
Queensway,  
Swansea West Industrial Park,  
Swansea  
SA5 4EB  
UK

**MONO EQUIPMENT** is a business name of **AFE GROUP Ltd**  
Registered in England No.3872673 VAT registration No.923428136

Registered office: Unit 9, Bryggen Road,  
North Lynn Industrial Estate,  
Kings Lynn,  
Norfolk,  
PE30 2HZ

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## 1.0 INTRODUCTION

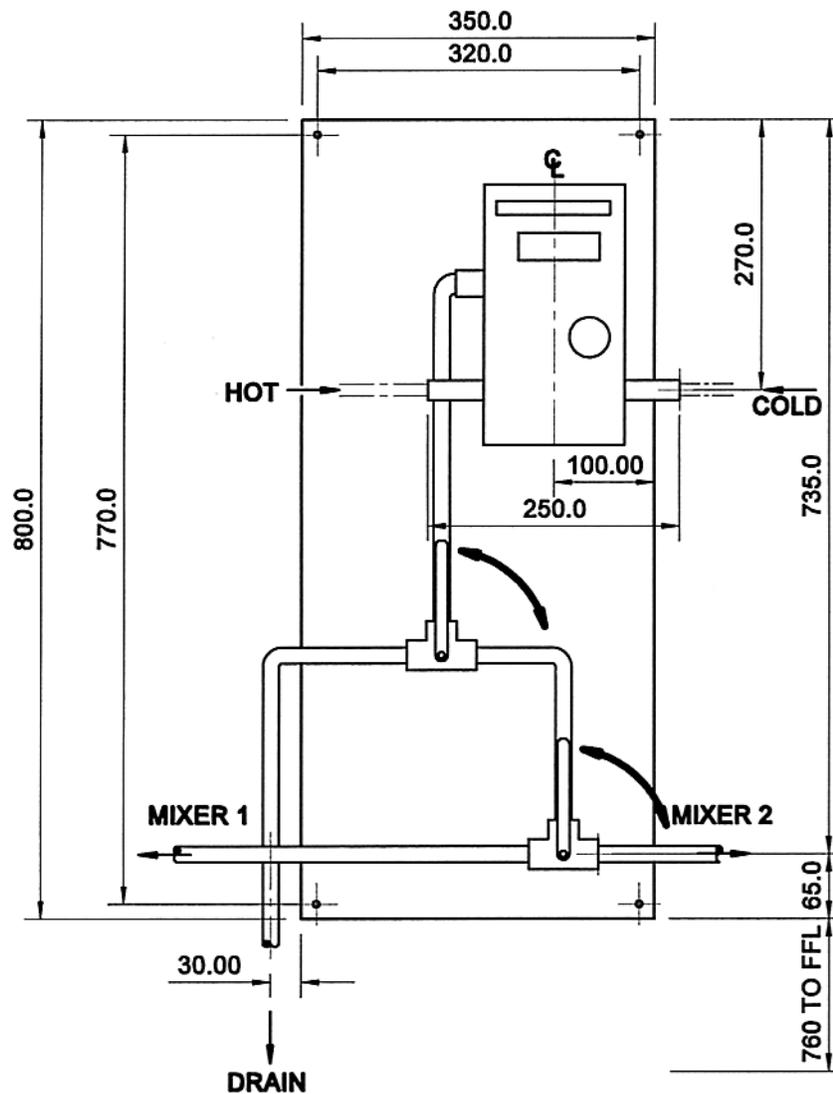
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The **MONO** twin delivery water meter is an easy to use system for metering water quantity and temperature to two mixers as required.

It is easy to use and can be set to repeat the water delivery as many times as required.

## 2.0 GENERAL DIMENSIONS

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## 3.0 SAFETY

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1. Check that the water meter is securely fixed to the wall.
2. Check all pipe work is in good order, secure and there are no leaks.
3. Do not allow discharge hoses to trail on the floor (if fitted).

## 4.0 SPECIFICATIONS

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HEIGHT OF WALL PLATE	800mm
WIDTH OF WALL PLATE	350mm
DEPTH OF COMPLETE UNIT	235mm

DISTANCE BETWEEN HOT AND COLD WATER INLETS 250mm

MINIMUM WATER PRESSURE REQUIRED	0.1bar
MAXIMUM WATER PRESSURE	6.0 bar
MAXIMUM PUMPED WATER PRESSURE	2.0 bar

1 – 25 LITRES (0.22 – 5.5 GALLONS) INDICATED

TEMPERATURE RANGE 0 – 45 DEG “C”

### **NOTE**

HOT AND COLD WATER SUPPLIES MUST BE OF EQUAL PRESSURE.

## 5.0 INSTALLATION

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1. Fasten meter assembly to the wall using suitable fixings.  
*The ideal height is 760mm from the floor.(see general dimensions drawing)*
2. Flush water feeds to ensure only clean water is used and no debris from pipe installation is present.
3. Connect the supply pipes (22mm diameter) with the hot water to the left and the cold water to the right.
4. Turn on the water, without setting the meter, to pressurise the piping and check for leaks.
5. Operate the meter into a bucket a few times to flush the system and ensure that all piping is clean.

MINIMUM WATER PRESSURE REQUIRED	0.1bar
MAXIMUM WATER PRESSURE	6.0 bar
MAXIMUM PUMPED WATER PRESSURE	2.0 bar

### **Note**

- For best results, the meter should be positioned between the two mixers and above a drain to allow for priming of the meter at start up.
- **HOT AND COLD WATER SUPPLIES MUST BE OF EQUAL PRESSURE.**  
*This can be achieved by having the hot and cold supply pressurised from the same header tank or having header tanks at equal heights.*  
*Alternatively a pressure-reducing valve can be fitted to the cold supply.*
- A water-softening unit must be fitted to both supplies in hard water areas.  
Mono can advise on this matter.

## 6.0 CLEANING

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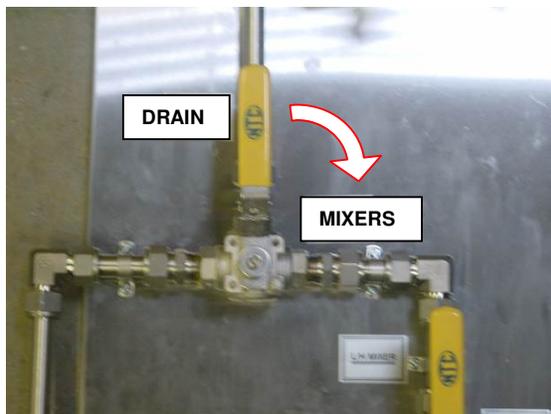
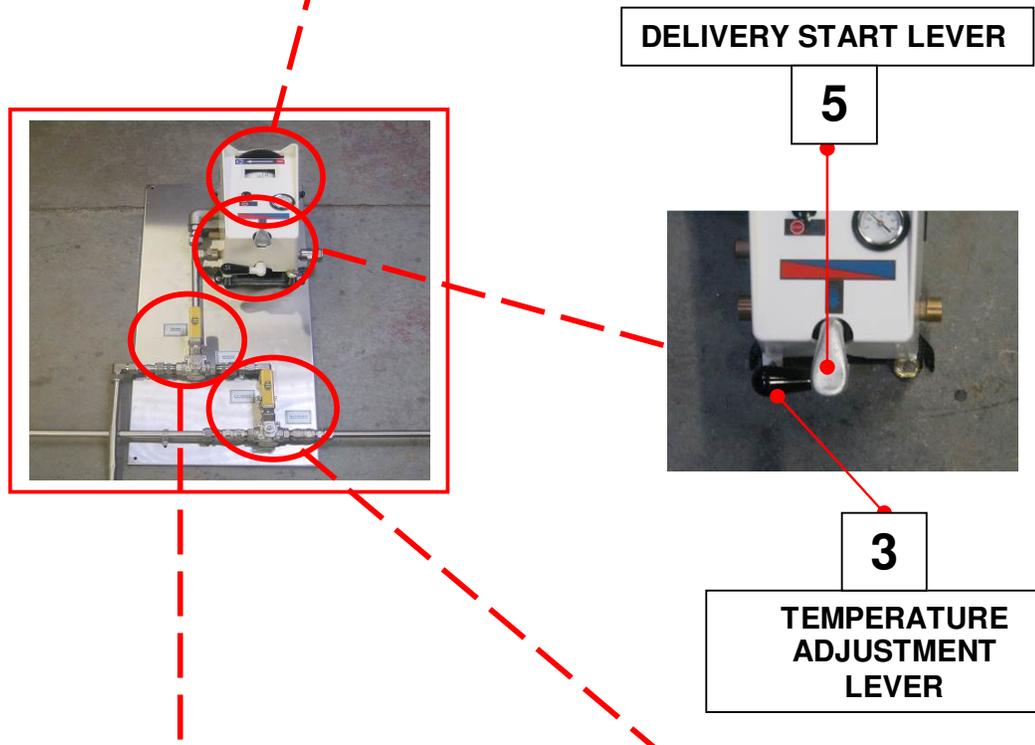
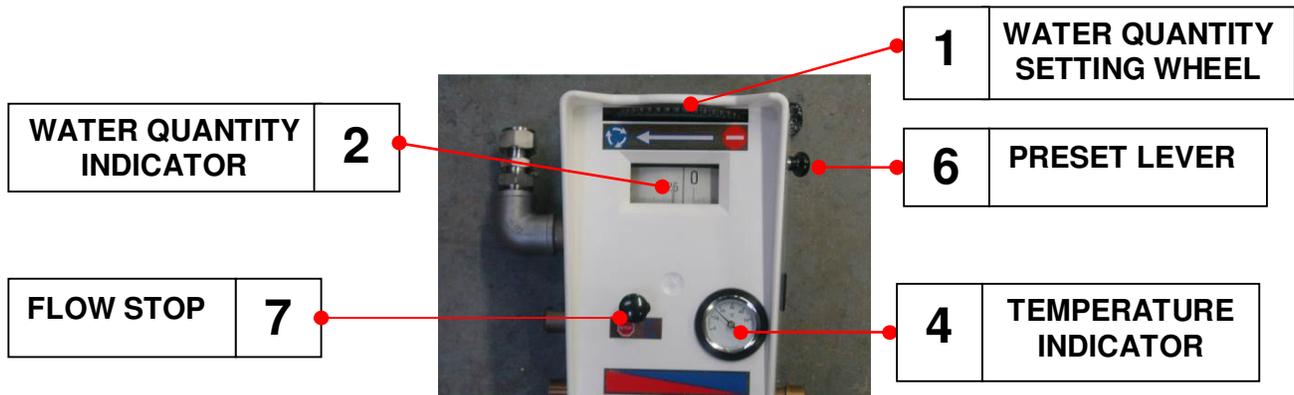
### DAILY

1. Brush excess flour off surfaces using a nylon brush.
2. Wipe over surface of meter and hosing with sterilising solution and hot water.

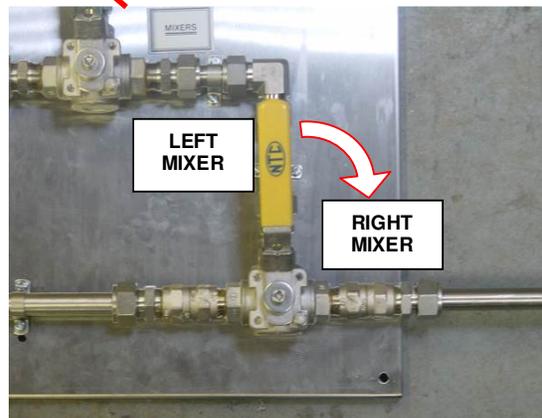
### WEEKLY

1. Clean as above.
2. Remove the water hose and submerge in sterilising solution and water.  
*Ensure that the hose fills with the solution.*
3. Rinse well and refit.

# 7.0 OPERATION



**DRAIN / MIXER CONTROL 8**



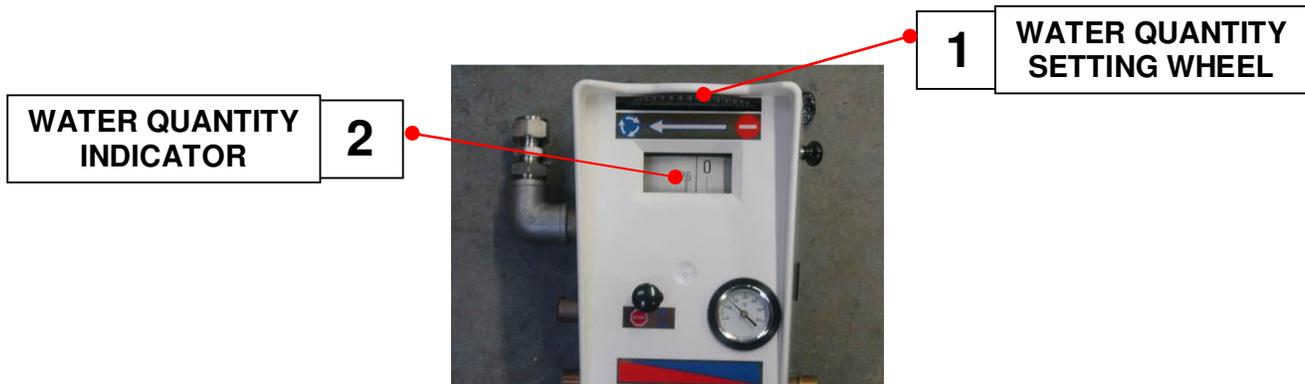
**MIXER CONTROL 9**

## SETTING THE WATER QUANTITY

1. Gently push in setting wheel (1) and turn in direction indicated to increase or decrease the quantity of water (*litres*) displayed in the indicator window (2), then release.

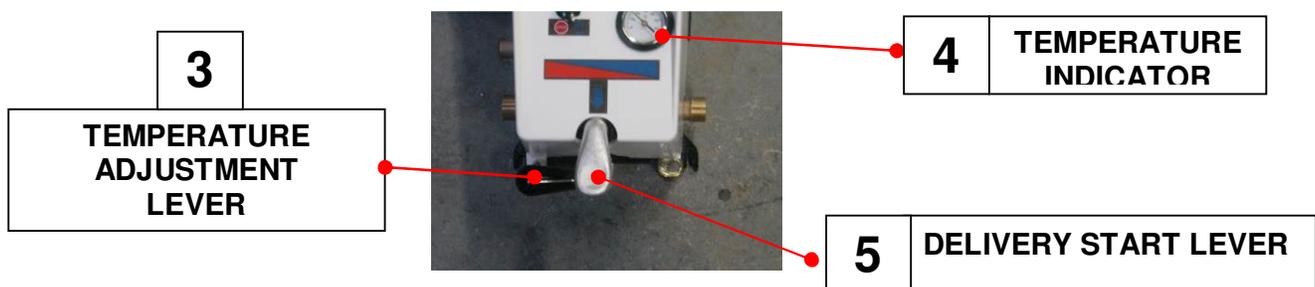
### **NOTE.**

*If the quantity is incorrectly set, the setting wheel should be moved back to zero and reset to the correct position required. Incorrect delivery of water quantity could result if this is not done.*



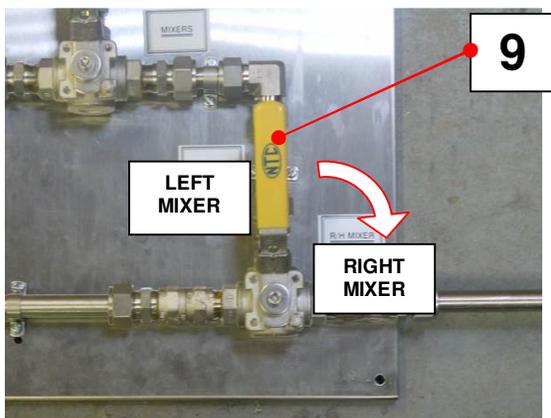
## SETTING THE WATER TEMPERATURE

1. To set the temperature of the water required, the drain / mixer tap (8) should be turned to the drain position.
2. Start the water flow by pressing start lever (5).
3. Adjust the temperature (shown on dial (4) ) by moving temperature adjustment lever (3), left to reduce or right to increase temperature.
4. Once the correct temperature has been achieved, turn drain / mixer tap to the mixer position.

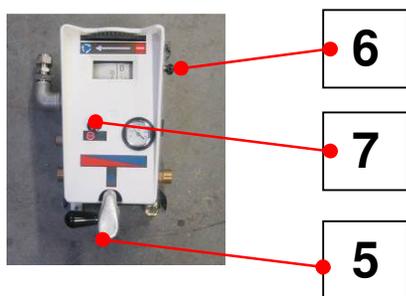


## WATER DELIVERY

1. Set temperature and delivery quantity (see previous page).
2. Turn mixer control lever (9) to required mixer position.  
*vertical for left mixer, horizontal for right mixer.*



3. Push delivery start lever (5) to commence water delivery.



*Delivery can be stopped at any time by moving the flow stop button (7) left.  
To restart delivery press delivery start lever (5) and the remaining amount of water will be dispensed.*

### REPEATING DELIVERY AMOUNTS.

1. If a repeat delivery of a set amount of water is required, select the desired amount and then pull preset lever (6) forward.
2. After the water has been delivered, depress water quantity setting wheel (1) and turn until the preset position is felt.

**TO AVOID DAMAGE, DO NOT ATTEMPT TO TURN WHEEL PAST THE PRESET POSITION WITHOUT RELEASING PRESET LEVER (6).**

3. Push delivery start lever (5) to commence water delivery as before.

**To cancel preset amount**, push preset lever (6) back.  
Depress wheel (1) and turn to make display dial go through one complete revolution.

## 8.0 SPARES AND SERVICE

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If a fault arises, please do not hesitate to contact the Customer Service Department, quoting the **machine serial number** on the silver information plate of the machine and on the front cover of this manual

### MONO

Queensway  
Swansea West Industrial Estate  
Swansea. SA5 4EB UK

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**Web site:www.monoequip.com**

**Tel. 01792 561234**

**Fax. 01792 561016**

#### □ **DISPOSAL**

**CARE SHOULD BE TAKEN WHEN THE MACHINE COMES TO THE END OF ITS WORKING LIFE. ALL PARTS SHOULD BE DISPOSED OF IN THE APPROPRIATE PLACE, EITHER BY RECYCLING OR OTHER MEANS OF DISPOSAL THAT COMPLIES WITH LOCAL REGULATIONS.**

(IN UK, ENVIRONMENTAL PROTECTION ACT 1990 APPLIES)