Installation Manual

Automatic Sensor Tap

Tube Design

Wall Mounted

CAT 67305 | CAT 67305B | CAT 67305G

Revision 15

MEFE—Mitchell Engineering Food Equipment Pty Ltd
23 Storie Street Clontarf QLD 4019 Australia
www.mefe.com.au | info@mefe.com.au

Page 1
+617 3283 4536
Free AU 1800 669 006

Product Description

Micro-computer infrared sensor control module, low consumption microprocessor chip with stable performance and high anti-interference. PCB electronic control module is double sealed and coated by a high performance waterproof membrane, then sealed with epoxy resin.

A water saving aerator is used in the faucet to prevent water splash back and allow for a soft flow. Automatically calibrates sensing distance within 10cm according to the environment, and stores this into the electronic chip. Supplied with AC 240V Transformer and DC 6V.

The faucet has been precisely manufactured and tested, ensuring the quality of the product satisfies international standards.

Product Certifications

WaterMark Certified
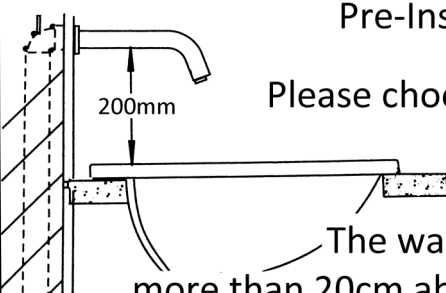Australia and New Zealand WaterMark certified with approved licence number WM-022559.

6 Star WELS Rating
This guarantees that the product is in accordance with the standard set under the National Water Efficiency Labelling and Standards and has the highest possible water efficiency rated 6 Stars, with approved licence number 1718.

Specifications

Power	AC 240V or DC 6V 4 x AA alkaline batteries (batteries not supplied)	**Installation Diameter**	Single hole (32mm)
Battery Life	150,000 cycles	**Response Time**	Less than 0.7 seconds
Sensing Distance	Pre-set sensing at approx. 10cm*	**Water Stop Protection (Auto Shut Off)**	60 seconds
Working Temperature	1°C - 60°C	**Flow Rate**	Less than 3 L/s at 0.3Mpa
Working Pressure	0.07Mpa—0.7Mpa	**Ambient Humidity**	95% or less
Inlet Size	BSP 1/2" (DN15) male thread	**Faucet Body Material**	Standard #65 brass, chrome plated

*To adjust sensing range of pre-set models, please purchase optional remote 673-100R.

Required Tools

Pre-Install information

Please choose the right basin before installation
Ensure all pipes are clean
(flush pipes until water is clear)
The wall mounted faucet should be installed
more than 20cm above the basin. This does not apply to
basins with strong reflective light - these require the distance
and angle between the faucet and basin to be carefully
adjusted to avoid reflection interference
Installation must be in accordance with AS/NZS 3500

200mm

Phillips Head Screw Driver

25mm Open End Wrench

Thread Tape

Hand Hammer

Electric Drill

MEFE—Mitchell Engineering Food Equipment Pty Ltd
23 Storie Street Clontarf QLD 4019 Australia
www.mefe.com.au | info@mefe.com.au

Page 2
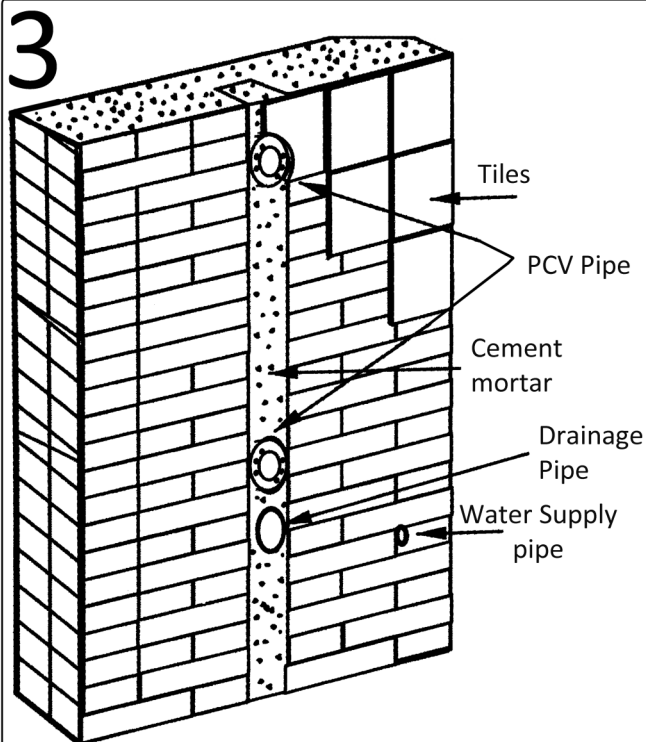+617 3283 4536
Free AU 1800 669 006

Installation

Please note: Installation guide is for wall mounted automatic faucets, the information below is only for installation reference and does not represent the physical product you purchased.
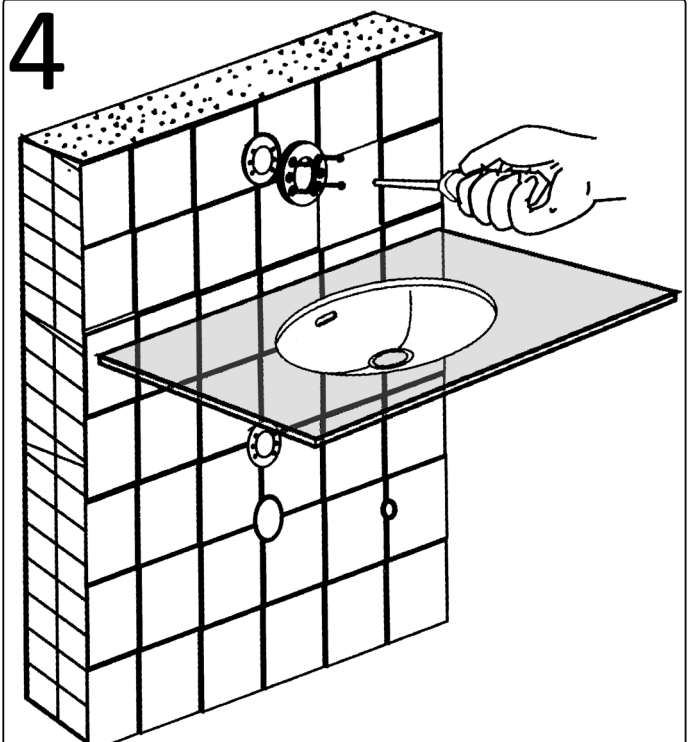
1

PVC elbow

Ø40mm

50cm

PCV Pipe
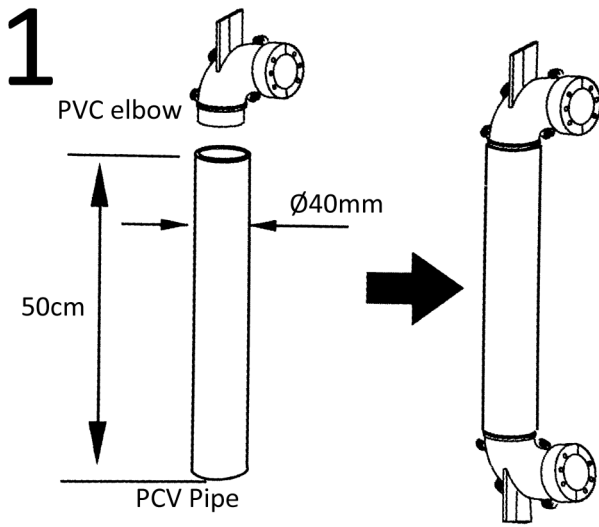
Prepare a white PVC drain pipe in advance accoring to the size above. Put the PVC elbow into the PVC pipe.

2

60 mm

45mm

Water Supply Pipe
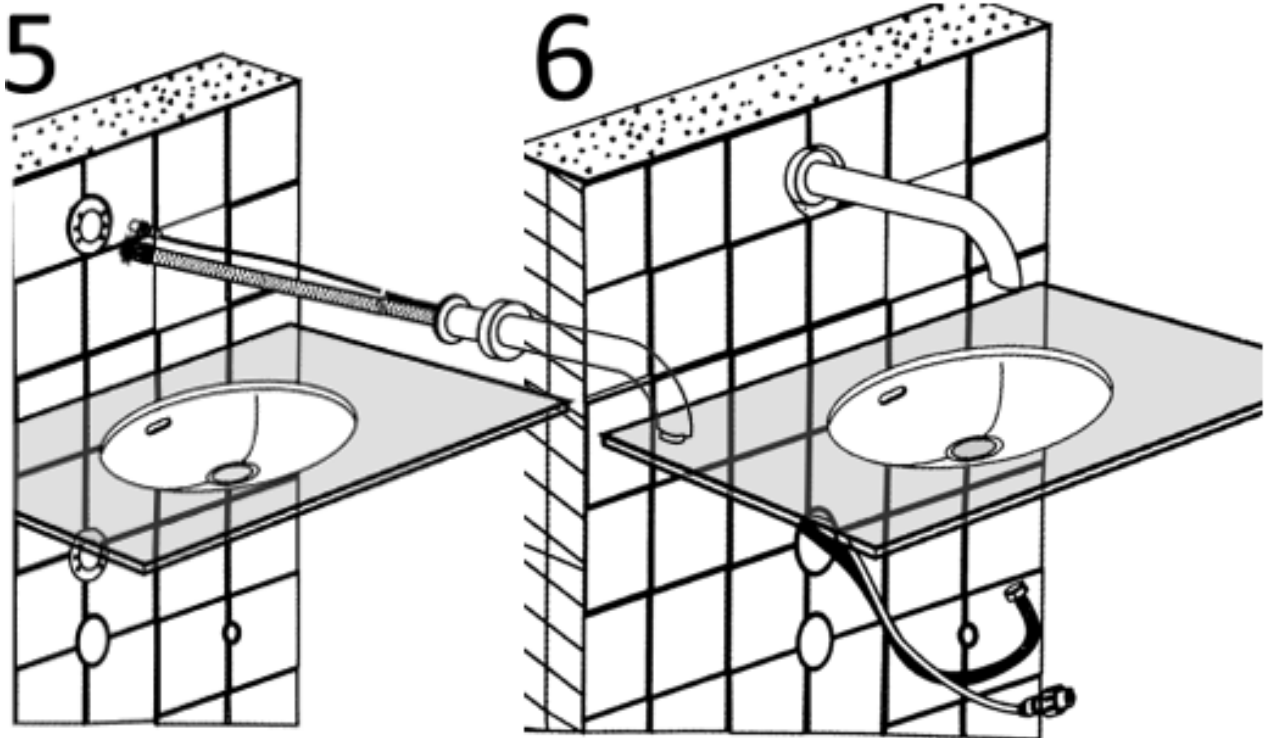
1200mm

400mm

200mm
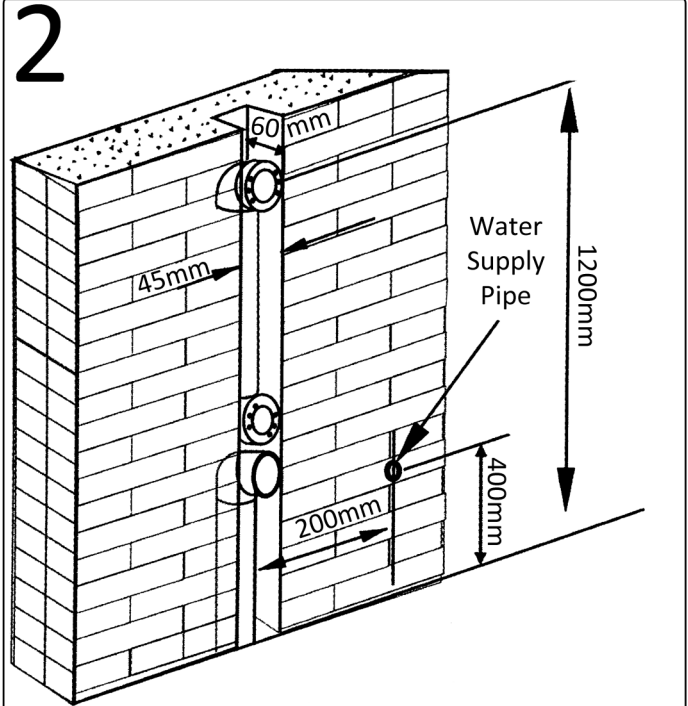
Slot the wall according to the figure, then place the PVC elbow into the slot.

3

Tiles

PCV Pipe

Cement mortar

Drainage Pipe

Water Supply pipe

Fix the PVC pipe with cement mortar, once this is complete, you can start your tiles.

4

Install the mounting plate onto the elbow.

MEFE—Mitchell Engineering Food Equipment Pty Ltd
23 Storie Street Clontarf QLD 4019 Australia
www.mefe.com.au | info@mefe.com.au

Page 3
+617 3283 4536
Free AU 1800 669 006

Installation cont.

5

First, thread the signal wire into the PVC pipe.
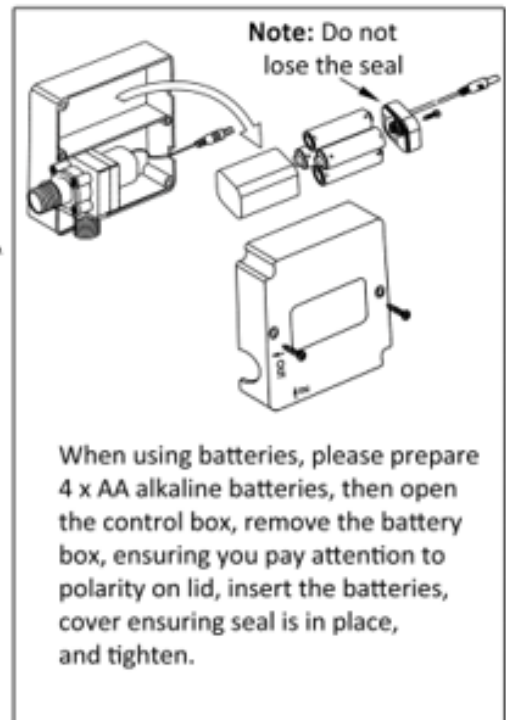Then insert the hose into the PVC pipe.

6

Tighten the decorative cover

7

Pay attention to the direction of the solenoid valve plug, **do not** insert in reverse

1. Ensure there is a shut off valve installed at the wall connection.
2. Fix the control box to the wall.
3. Connect the other end of the hose coming from the faucet body to the water outlet of the control box.
4. Use a 20cm long hose with 1/2" nut on both sides. Connect the water outlet of the shut off valve, and the water inlet of the control box.
5. Insert the sensor cable into the socket on the control box.
6. When the power is turned on, the LED on the sensor controller wil flash 3 times.

Note: Do not lose the seal

When using batteries, please prepare 4 x AA alkaline batteries, then open the control box, remove the battery box, ensuring you pay attention to polarity on lid, insert the batteries, cover ensuring seal is in place, and tighten.

MEFE—Mitchell Engineering Food Equipment Pty Ltd
23 Storie Street Clontarf QLD 4019 Australia
www.mefe.com.au | info@mefe.com.au

Page 4
+617 3283 4536
Free AU 1800 669 006

Installation cont.

8 Place your hand under the water outlet and the solenoid valve will make a click. The LED in the sensor will flash. Water is activated. Remove hand and water will stop. Place supplied red or blue dot on head of faucet to identify hot ● or cold ● water
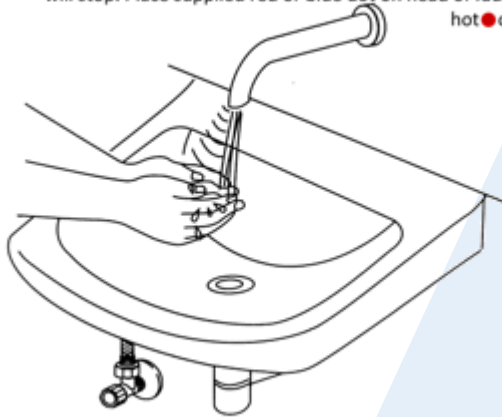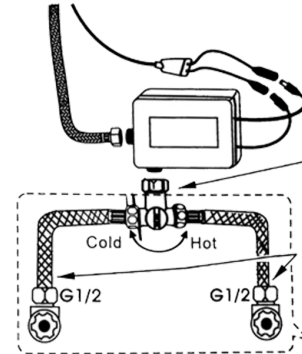
Cold   Hot

G1/2   G1/2

Calibrating the Sensing Range

The sensor tap will automatically calibrate the sensing range within 10cm when first connected to power. Please ensure the tap has been installed in the correct and final position before connecting to power. When connected to power the sensing light will flash indicating it is in programming mode, please do not interfere or obstruct for at least 60 seconds. During this time the sensor light may stop flashing, please do not interfere for the required 60 seconds.

To reprogram this range you will require optional remote 673-100R.

When a user's hand is placed in the sensing range, the solenoid valve is activated and opens to allow water flow. When hands are removed, the solenoid valve will close stopping water flow. The infrared sensor will continue to emit invisible infrared light, ready for the next user.

Note: the tap has an automatic water saving safeguard against interference or mistakes. If the device is on for more than 60 seconds, or the faucet remains in sensing state for a long time, the solenoid valve will automatically close until the user leaves the sensing range.

MEFE—Mitchell Engineering Food Equipment Pty Ltd
23 Storie Street Clontarf QLD 4019 Australia
www.mefe.com.au | info@mefe.com.au

Page 5
+617 3283 4536
Free AU 1800 669 006

Fault Check

Our sensor tap range is primarily divided into three components: the sensor, the solenoid valve, and the power supply. The solenoid valve and power supply are universal and interchangeable parts across our range of same type taps. The sensor is specific to each spout type.

If you have other sensor taps or spare parts available it can be helpful to trouble shoot by swapping parts until the faulty part is identified.

Issue	Fix
No water flow	**Check the power supply:** if using batteries, carefully check the correct polarity of the batteries and replace. The sensor light should flash indicating the tap is entering programming mode.
No water flow	**Check the sensor:** After confirming power is OK, if the sensor light does not flash, replace the sensor.
No water flow	**Check the solenoid valve:** place your hands under the faucet, you should hear a click of the solenoid valve indicating the sensor is working normally. This means water is not supplied or unable to flow. Check the solenoid valve for obstruction—the solenoid diaphragm may be blocked. Opening and cleaning the solenoid may be necessary, or replace the solenoid valve.
Low water flow	**Check the solenoid valve:** A leaking faucet with a constant slow flow indicates the diaphragm is not sealing due to debris or it may be cracked or town. Replace the diaphragm or the complete solenoid valve.
Intermittent water flow / sensing	**Check the sensing range:** This is most likely caused by a failure to program sensing range correctly due to interference from a reflective basin. We recommend you remove power for 2 minutes, then reconnect and allow the sensor to adjust to a short sensing range. It can be beneficial to create a false bottom by placing paper or similar at the bottom of the basin when recalibrating the sensing range to remove any strong reflection.
Water does not stop flowing	**Check the solenoid valve:** If the faucet does not stop flowing it may be that the solenoid valve is faulty and should be replaced. The diaphragm is not sealing due to debris or it may be cracked or town. Clean, replace the diaphragm or the complete solenoid valve.

Cleaning and Maintenance

Regular cleaning is essential to keep your tap looking its best.

Do not rinse the control box with water.

Do not use abrasive or chemical cleaners (including chlorine clean to clean the faucet as this can dull lustre and finish of the tap).

Wash only in soap water and dry with a clean soft towel or microfibre cloth.

When cleaning the general area please ensure you protect the faucet from any cleaning acids or fluids as this can discolour or remove the chrome plating where applicable.

The filter screen on the solenoid valve inlet should be cleaned regularly to avoid excessive blockage and obstruction caused by impurities resulting in low water flow.
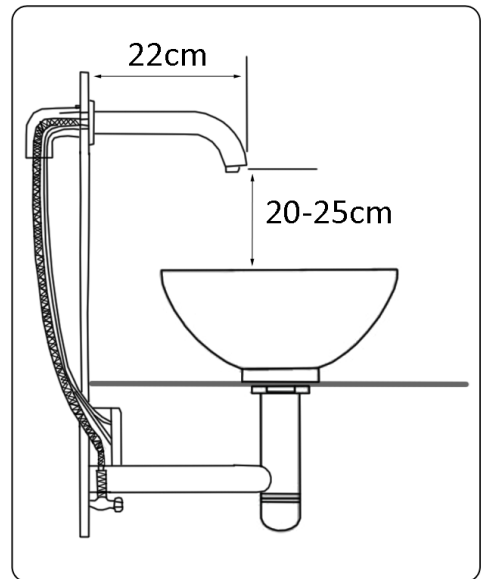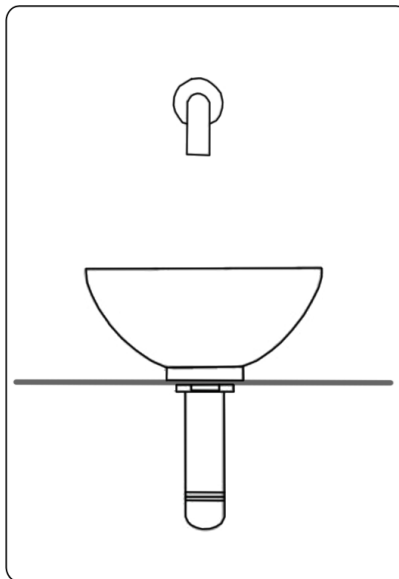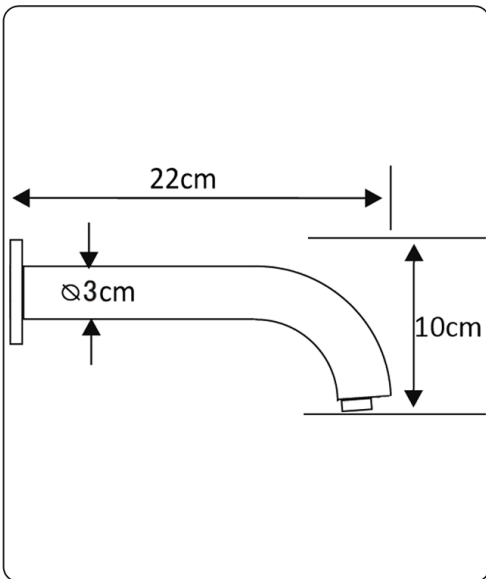
Stainless Steel
braided supply hose

Transformer

Solenoid Box

Sensor
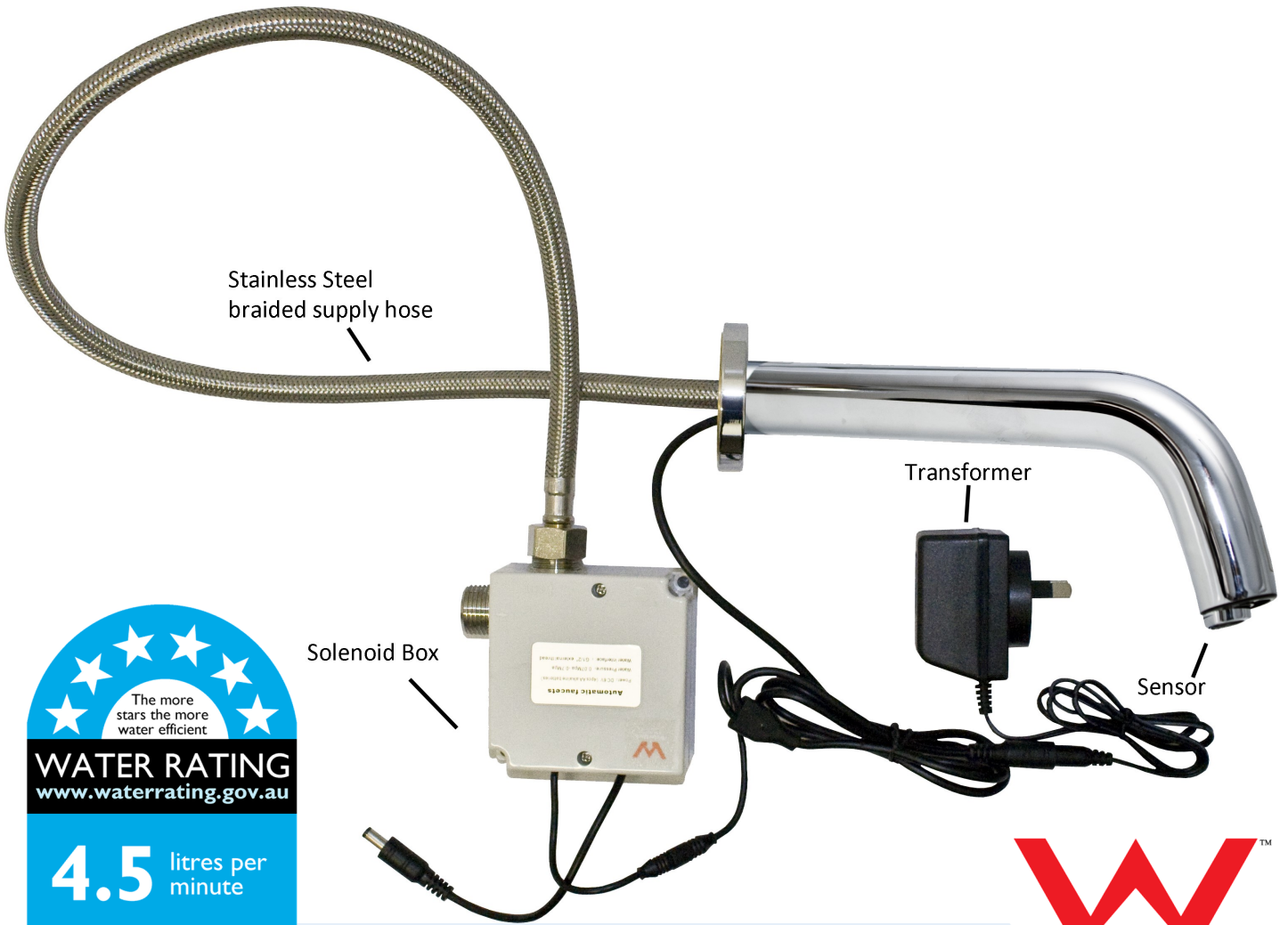
The more
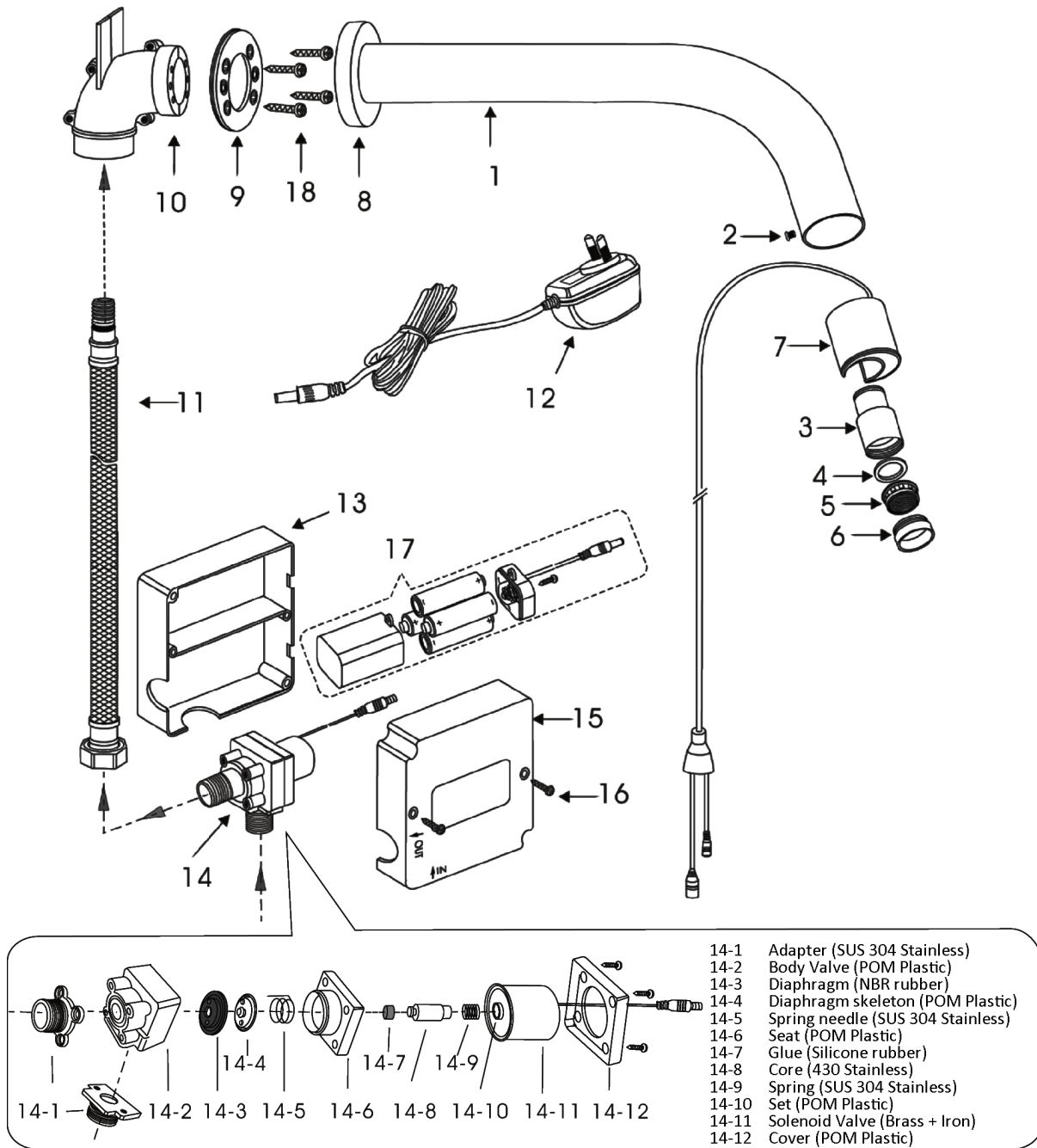stars the more
water efficient

WATER RATING
www.waterrating.gov.au

4.5 litres per
minute

In accordance with AS/NZS 6400

Licence No. 1718

Mitchell Engineering Food
Equipment Pty Ltd

WaterMark
WM - 022559
AS/NZS 3718

22cm

⌀3cm

10cm

22cm

20-25cm

CAT 67305 Automatic Faucet Exploded View

14-1	Adapter (SUS 304 Stainless)
14-2	Body Valve (POM Plastic)
14-3	Diaphragm (NBR rubber)
14-4	Diaphragm skeleton (POM Plastic)
14-5	Spring needle (SUS 304 Stainless)
14-6	Seat (POM Plastic)
14-7	Glue (Silicone rubber)
14-8	Core (430 Stainless)
14-9	Spring (SUS 304 Stainless)
14-10	Set (POM Plastic)
14-11	Solenoid Valve (Brass + Iron)
14-12	Cover (POM Plastic)

No.	Part #	Description	Material	No.	Part #	Description	Material
1.	673-050	Faucet Body	Brass	10.	673-057-1	PVC Elbow	PVC PLastic
2.	673-045	Screw	SUS 304 S Steel	11.	673-058	Braided Hose	SUS 304 Stainless
3.	673-033C	Spout Adapter	Brass CW602N	12.	679-128	Power Adaptor	Electronic Hardware
4.	673-033B	Rubber Mat	NBR Rubber	13.	679-120	Housing	ABS Plastic
5.	673-033	Aerator	POM Plastic	14.	679-122	Solenoid Valve	POM Plastic
6.	673-033A	Spout Shell	Brass CW602N	15.	679-120	Housing	ABS Plastic
7.	673-106	Sensor	Electronic Hardware	16.	679-127	Screw	SUS 304 Stainless Steel
8.	673-055	Cover	Brass CW602N	17.	679-121	Battery Box	ABS Plastic
9.	673-056-1	Mounting Plate	Brass	18.	679-123	Screws	201 Stainless

MEFE—Mitchell Engineering Food Equipment Pty Ltd

23 Storie Street Clontarf QLD 4019 Australia

www.mefe.com.au | info@mefe.com.au

Page 8

+617 3283 4536

Free AU 1800 669 006