

MEFE
MITCHELL ENGINEERING
FOOD EQUIPMENT PTY LTD

Installation Manual



Automatic Sensor Tap

Tube Design

Wall Mounted

CAT 67305 | CAT 67305B | CAT 67305G

Revision 16

Product Description

- This sensor tap is designed to turn on with sensor activation and off when hands are removed.
- Features a micro-computer infrared sensor control module, low consumption microprocessor chip with stable performance and high anti-interference. The PCB electronic control module is double sealed and coated by a high performance waterproof membrane, then sealed with epoxy resin.
- Automatically calibrates sensing range according to the environment and stores this into the electronic chip.
- A water saving aerator is used in the faucet to prevent water splash back and allow for a soft flow.
- Supplied with both AC 240V Transformer and DC 6V Battery Pack.
- The faucet has been precisely manufactured and tested, ensuring the quality of the product satisfies international standards.

Pre-Install Instructions

Please choose an appropriate basin before installation, avoid basins with strong reflective surfaces.

Please prepare water supply pipe and water-proof socket (for electricity type).

Please ensure all pipes have been flushed for at least 60 seconds and are clear of dirt and impurities (water must be clear).

Installation must be in accordance with the National Plumbing and Drainage standard – AS/NZS 3500.

Required Tools

 Phillips Head Screw Driver

 Thread Tape

 25mm Open End Wrench

 Hand Hammer

 Electric Drill

Sensing Range

The sensor tap will automatically calibrate the sensing range 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.

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 Range	Default 0 to 10cm Reprogrammed with remote achieves 0 to 20cm*	Water Stop Protection (Auto Shut Off)	Approx. 30 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 reprogram sensing range use optional remote 673-100R.



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. Licence number 1718.

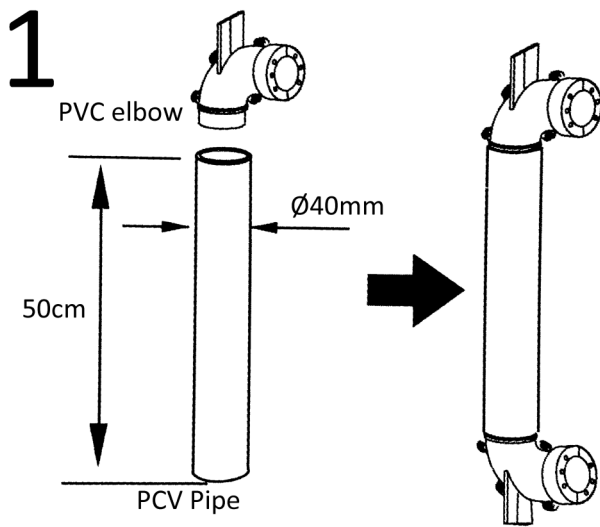


DDA Compliant

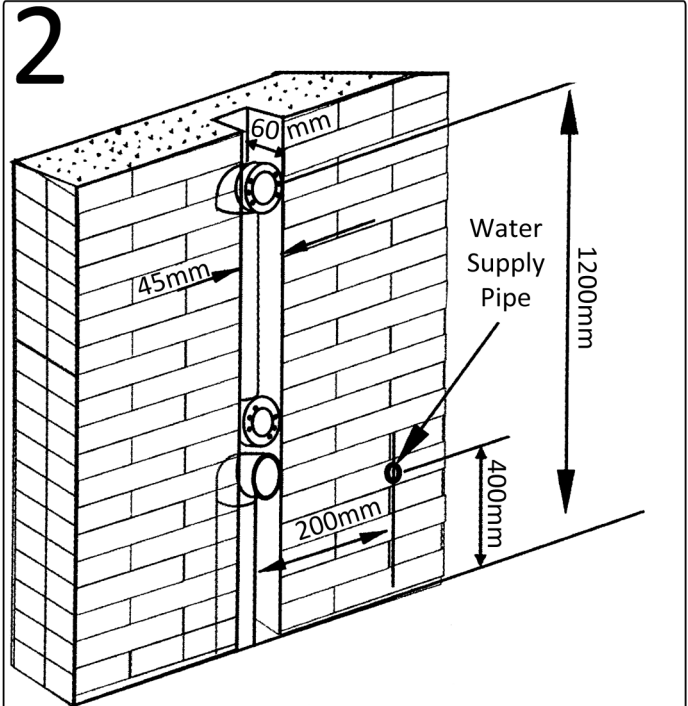
Suitable for use for AS 1428.1 design and access requirements when installed in reference to AS 1428.1 2009 Amendment 1 and the intent of the Disability Discrimination Act (DDA).

Installation

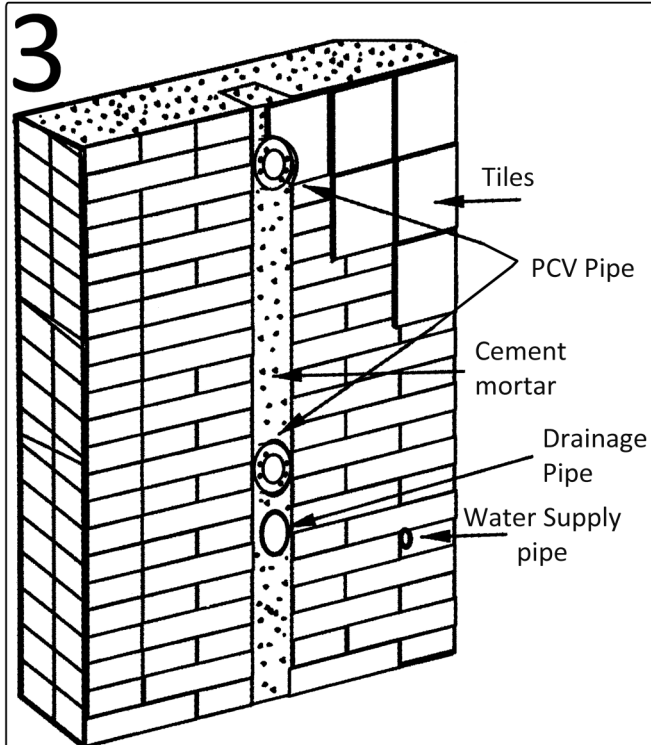
Please note: Installation guide is for wall mounted automatic faucets, the information below is only for installation reference and does not represent the physical product you purchased.



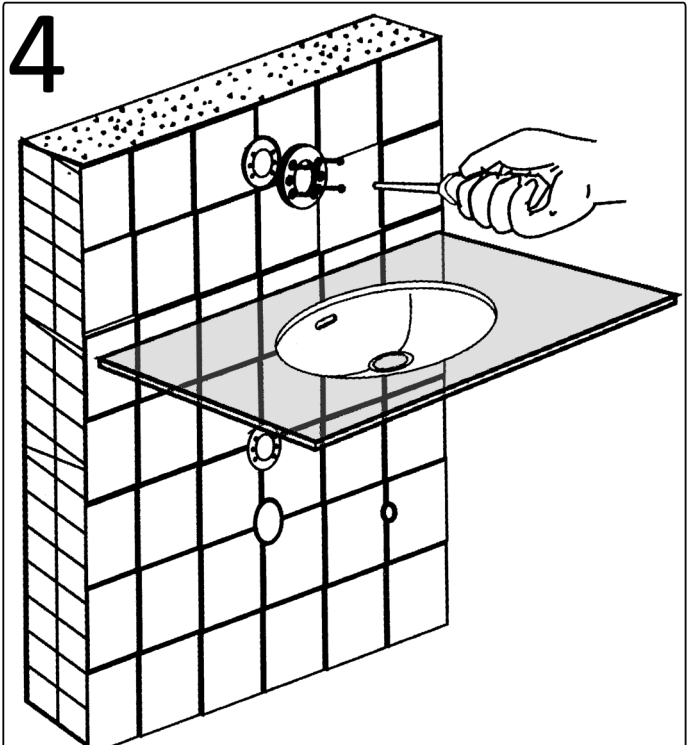
Prepare a white PVC drain pipe in advance according to the size above. Put the PVC elbow into the PVC pipe.



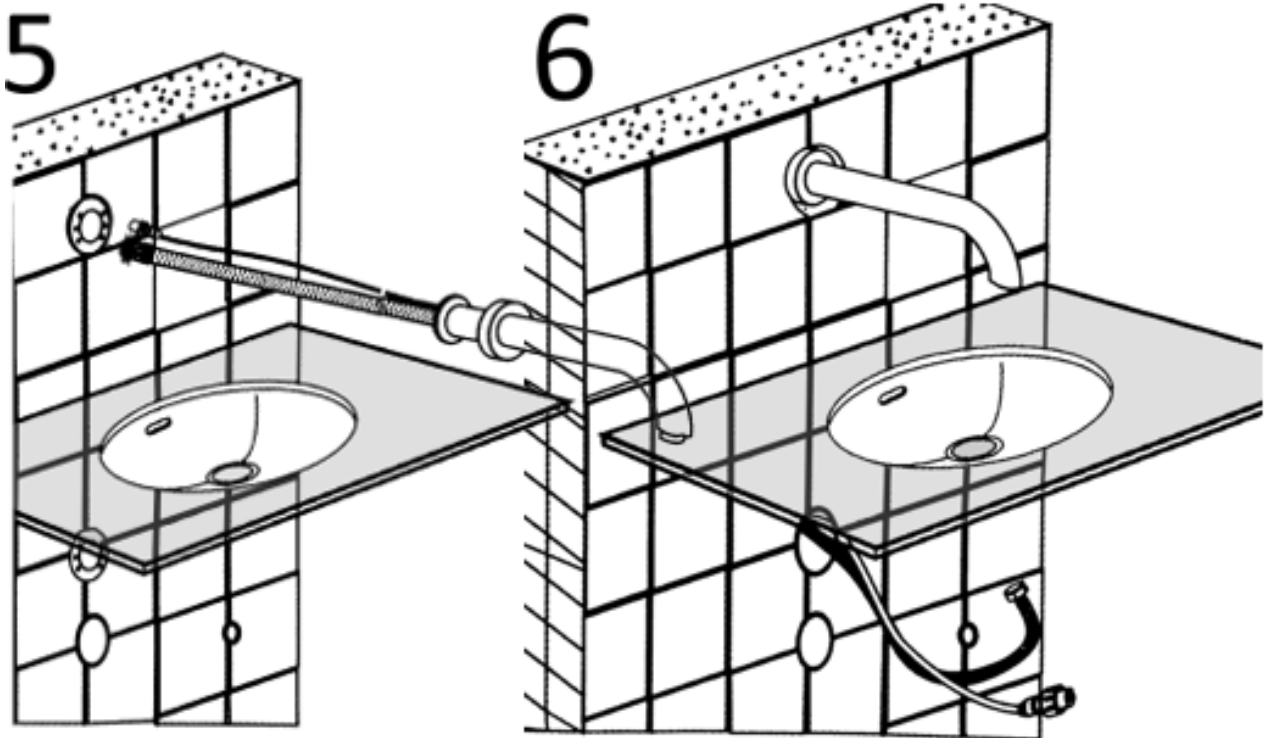
Slot the wall according to the figure, then place the PVC elbow into the slot.



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



Install the mounting plate onto the elbow.



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

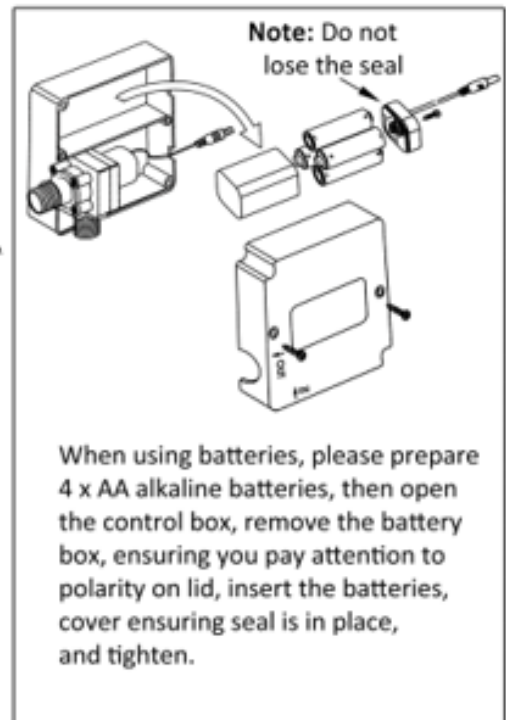
Tighten the decorative cover

7

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



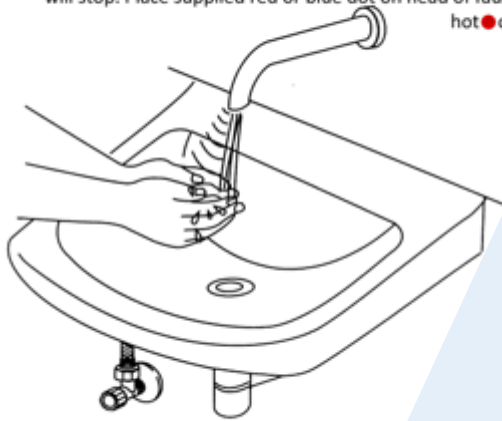
1. Ensure there is a shut off valve installed at the wall connection.
2. Fix the control box to the wall.
3. Connect the other end of the hose coming from the faucet body to the water outlet of the control box.
4. Use a 20cm long hose with 1/2" nut on both sides. Connect the water outlet of the shut 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.



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

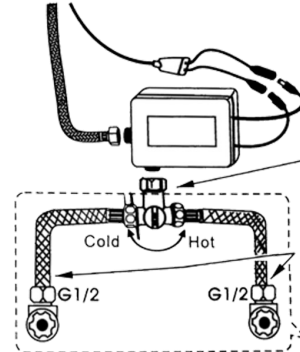


Optional: Hot and Cold Mixer

To control water temperature you will require the following to connect to your hot and cold water supply:

2 x Watermarked Braided Hoses (flexible) with a DN15 nut on both ends (673-058L 120cm / 673-058 100cm)

1 x Watermarked Mixer Valve (CAT 67 M2)



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

Cause

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 torn. 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.

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 torn. Clean, replace the diaphragm or the complete solenoid valve.

Cleaning and Maintenance

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

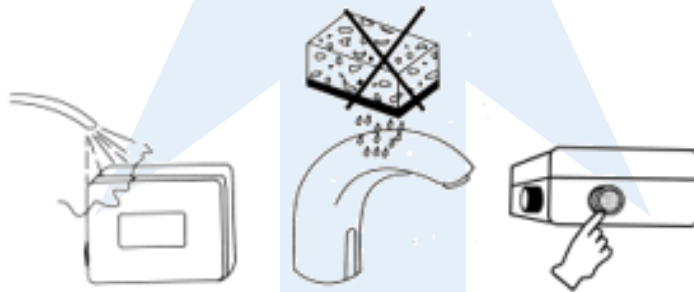
Do not rinse the control box with water.

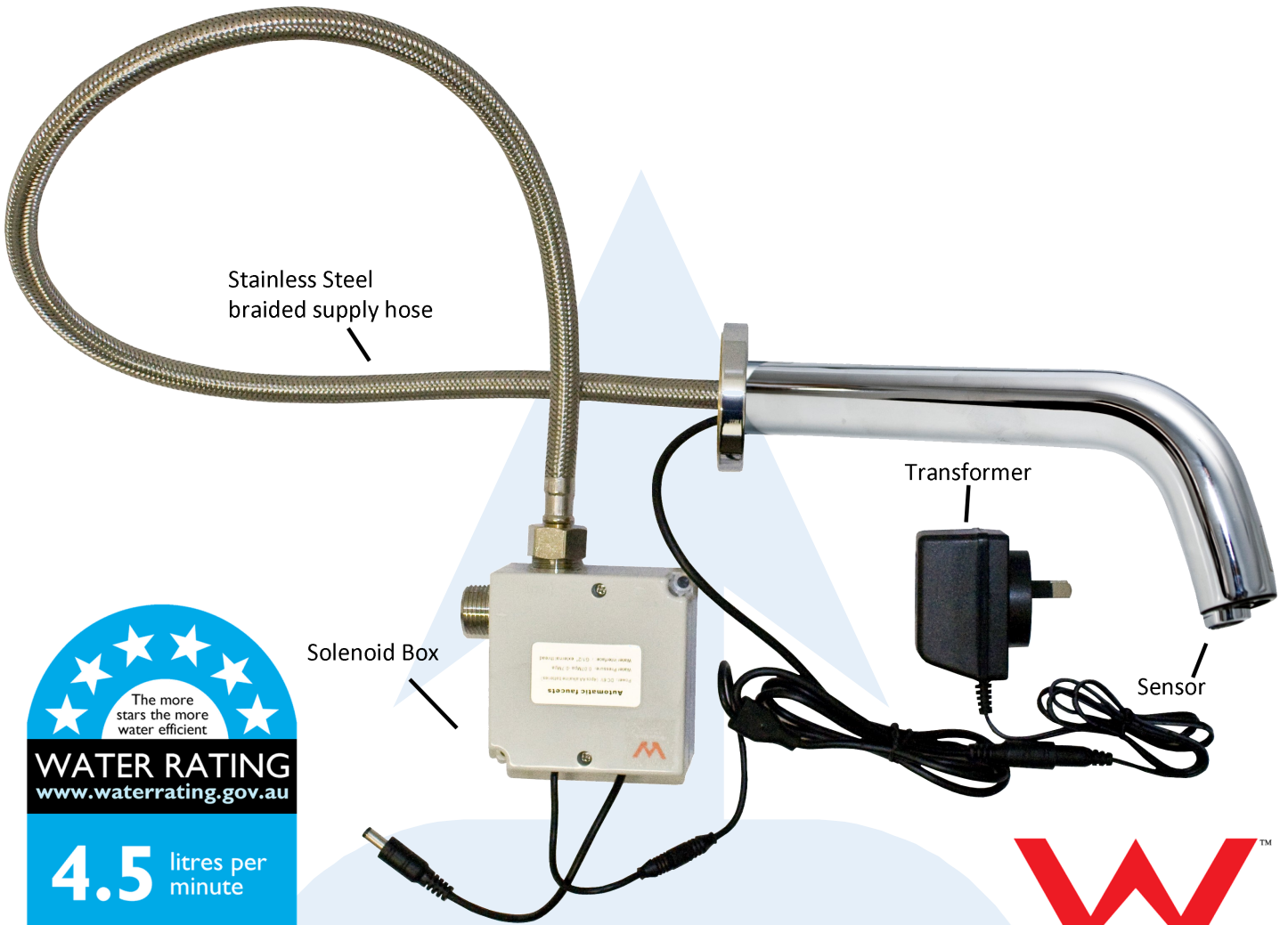
Do not use abrasive or chemical cleaners (including chlorine clean to clean the faucet as this can dull lustre and finish of the tap).

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.





The more stars the more water efficient

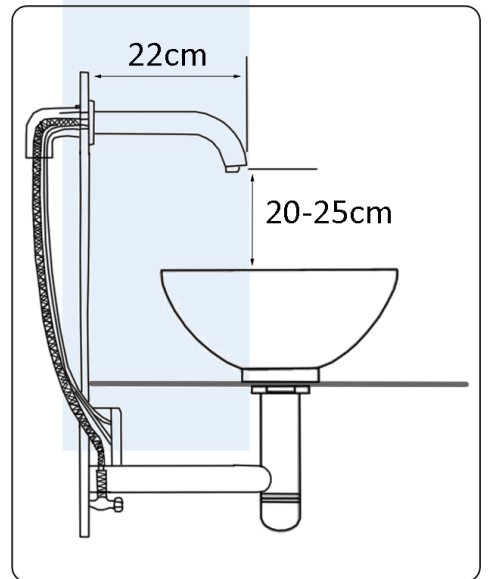
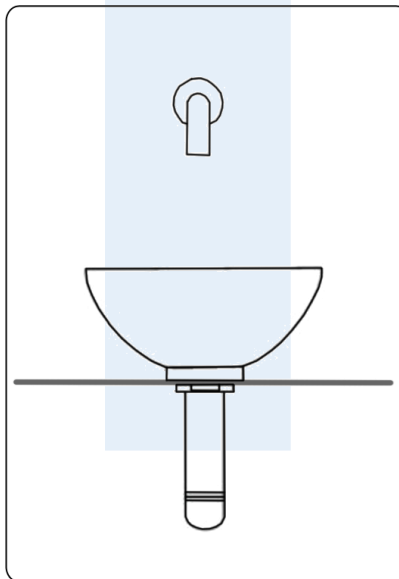
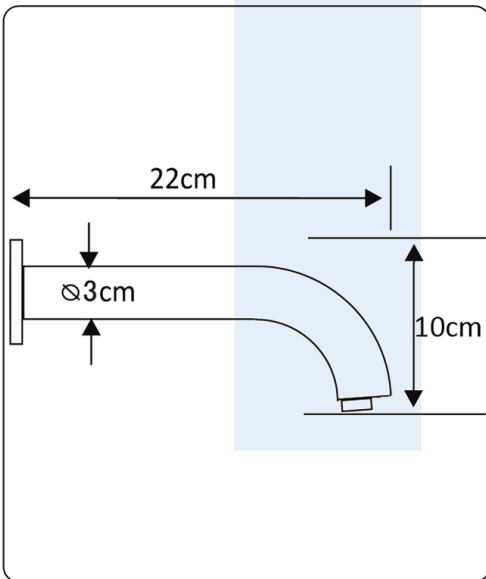
WATER RATING
www.waterrating.gov.au

4.5 litres per minute

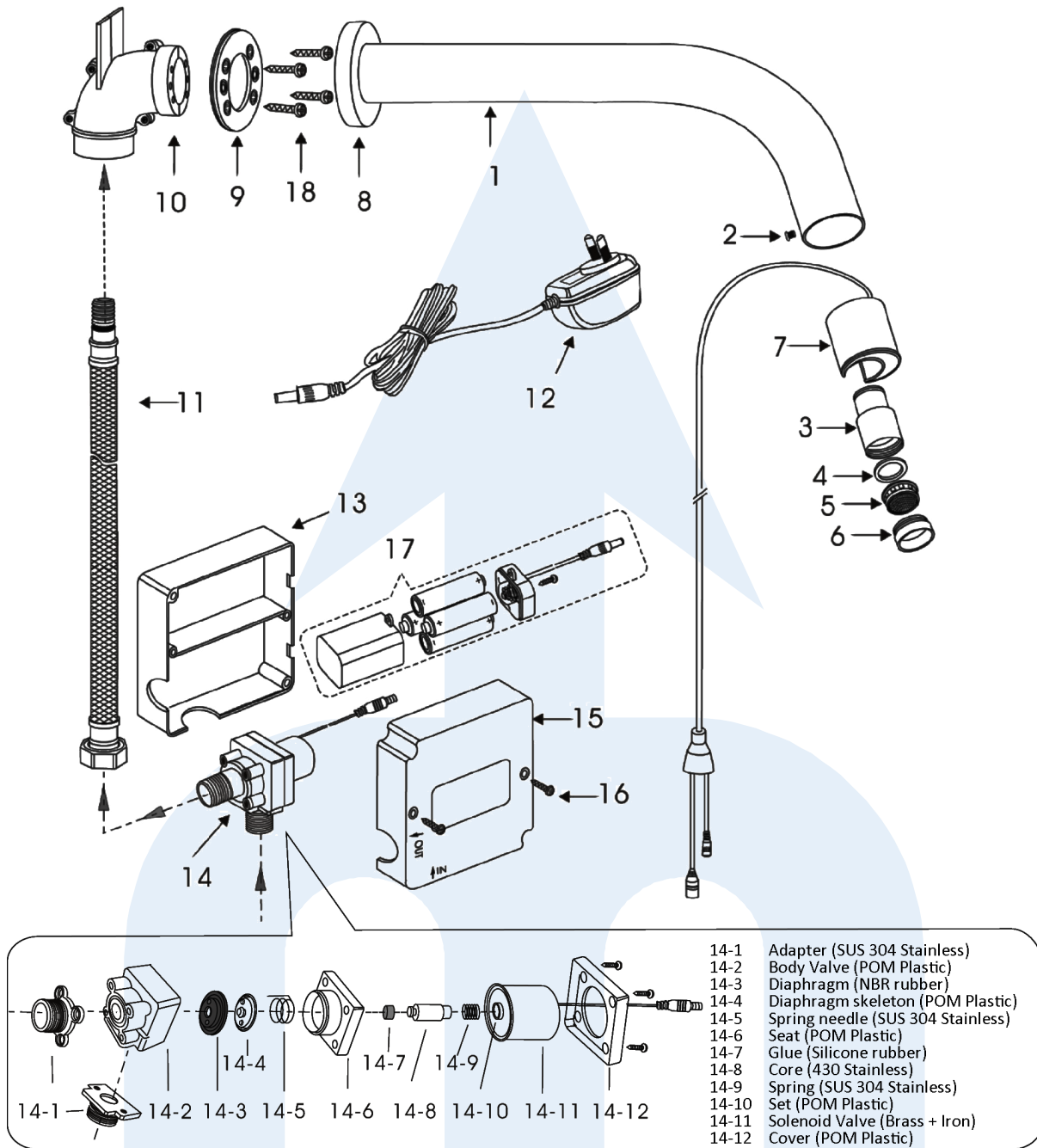
In accordance with AS/NZS 6400

Licence No. 1718
Mitchell Engineering Food Equipment Pty Ltd

WaterMark
WM - 022559
AS/NZS 3718



CAT 67305 Automatic Faucet Exploded View



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