



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change Certificate of Approval No 4/9/5 Change No 2

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the

Water U Fill To Go Model DFSS 1700 Water Dispensing Instrument

submitted by East Coast Water U Fill To Go Pty Ltd
now of 25 Palm Grove Ave
Eagle Heights QLD 4271.

- A. In Certificate of Approval No 4/9/5 dated 6 September 2005;
1. The Condition of Approval referring to the review of the approval should be amended to read:
“This approval becomes subject to review on 1 August **2015**, and then every 5 years thereafter.”
 2. The FILING ADVICE, previously amended by Notification of Change No 1 dated 8 July 2008, should now be amended by adding the following:
“Notification of Change No 2 dated 8 April 2011”
- B. In Certificate of Approval No 4/9/5 and its Technical Schedule both dated 6 September 2005, and in Notification of Change No 1 dated 8 July 2008, all references to the address of the submittor should be amended to read:
“25 Palm Grove Ave
Eagle Heights QLD 4271.”

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, consisting of a series of loops and flourishes, positioned above a horizontal line.

4/9/5
6 September 2005



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Certificate of Approval
No 4/9/5

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the
Water U Fill To Go Model DFSS 1700 Water Dispensing Instrument

submitted by East Coast Water U Fill To Go Pty Ltd
1/29 Sunset Boulevard
Surfers Paradise QLD 4217.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 August 2010, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 4/9/5' and only by persons authorised by the submittor.

.../2

4/9/5
6 September 2005

Certificate of Approval No 4/9/5

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It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

DESCRIPTIVE ADVICE

Pattern: approved 12 August 2005

- A Water U Fill To Go model DFSS 1700 coin or card-operated water dispensing instrument.

Technical Schedule No 4/9/5 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 4/9/5 dated 6 September 2005
Technical Schedule No 4/9/5 dated 6 September 2005 (incl. Test Procedure)
Figures 1 to 4 dated 6 September 2005

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the National Measurement Regulations 1999.



TECHNICAL SCHEDULE No 4/9/5

Pattern: Water U Fill To Go Model DFSS 1700 Water Dispensing Instrument

Submittor: East Coast Water U Fill To Go Pty Ltd
1/29 Sunset Boulevard
Surfers Paradise QLD 4217



1. Description of Pattern

A Water U Fill To Go model DFSS 1700 coin or designated magnetic card-operated water dispenser (Figure 1) approved to deliver purified potable water in quantities from 1 to 20 litres.

1.1 Field of Operation

The field of operation of the measuring system is determined by the following characteristics:

- For use with water supplied from a mains (reticulated) supply
- Ambient air temperature range 5°C to 40°C
- Nominal power supply 204 V AC
- Minimum operating pressure 115 kPa

1.2 System Description

The system (Figure 2) consists of the following:

- (i) A supply tank of 200 litres capacity is fitted with 2 liquid level sensing probes which monitor the water level in the tank. One probe is for sensing the minimum quantity before the dispenser is operational – if there are less than 40 litres in the tank, the liquid level sensing probe notifies the Vend controller card and a delivery of any quantity is prevented. The other probe is for preventing the tank from over-filling.
- (ii) A purchaser's control panel (Figure 3) incorporates 2 pushbutton-operated switches; one is marked 'FOR MAGNETIC CARD ONLY PRESS TO DEDUCT FROM CARD' and the other is marked 'WATER DISPENSING START/PAUSE'. *The control panel also includes* an Edue model PFI-4-6500 designated magnetic card reader and card slot, and a 9 mm 4-digit numeric indicator which displays the monetary amount remaining on the magnetic card.
- (iii) A 14 mm 4 digit alphanumeric display marked 'Litres to Dispense' displays the amount of water being purchased.
- (iv) A WaterTH model CS-150 multi-coin validation device and a coin return chute.
- (v) A red light marked 'PRODUCTION IN PROCESS PLEASE WAIT' lights up when there is insufficient water to deliver, and a green light marked 'READY TO DISPENSE' lights up when the dispenser is ready.

- (vi) A Shurflo model 2088-592-094 pump (Figure 4) and carbon block filter with an integral ultraviolet steriliser lamp are used.
- (vii) A spout is located at the top-centre of the compartment for dispensing the water into a receptacle.
- (viii) A Vend electronic controller unit and a timer unit provide all the control and sensing functions necessary for the production and dispensing of purified water; these units may be housed in either the same or in two separate enclosures.

1.3 Operation

A delivery cycle is initiated by inserting the appropriate coins, or by inserting a designated magnetic card and pressing the button marked 'FOR MAGNETIC CARD ONLY PRESS TO DEDUCT FROM CARD' until the required volume is displayed.

The button marked 'WATER DISPENSING START/PAUSE' is then pressed causing a signal to be transmitted to the Vend controller card (VCC) which activates the delivery pump ~~and opens the solenoid valve~~ allowing water to be dispensed – all other buttons are rendered inoperative through this cycle.

A delivery may be paused to allow for realigning of the purchaser's bottle or to change receptacle by pressing the 'WATER DISPENSING START/PAUSE' button whilst the dispenser is delivering.

The number of deliveries purchased is shown in litres on the 14 mm 4 digit alphanumeric display. The display counts in a descending order the number of deliveries purchased until reaching zero. It also displays 'OPEN' when the dispenser is operational or 'OFF' when the dispenser is inoperative.

If a coin inserted is not accepted, it is returned through the coin return chute. Coins are also returned if insufficient supply is detected in the supply tank; in this case the red light marked 'PRODUCTION IN PROCESS PLEASE WAIT' will be illuminated and the display shows 'OFF'.

1.4 Markings

Instruments are marked with the following, together in a prominent position:

Manufacturer's name or mark	
Pattern approval number	NMI 4/9/5	
Serial number of the instrument	
Year of manufacture	
Quantities for which the instrument is verified	1 to 20 L	(#)
Approved for dispensing	Purified water	(#)

(#) May be located separately.

In addition, the quantities dispensed expressed in L, and the price expressed in ¢, are displayed adjacent to the purchaser's control panel.

1.5 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.6 Verification/Certification Provision

Provision is made for the Vend controller unit and the timer unit (in either the same or in two separate enclosures) to be sealed by means of destructible adhesive labels applied in at least two locations over the join of the lid and body of the enclosure/s.

TEST PROCEDURE

Instruments should be tested in conjunction with any relevant tests specified in the Uniform Test Procedures.

Maximum Permissible Errors at Verification/Certification

The maximum permissible error applicable at verification/certification is:

±1.5% of the quantity measured.

1. Delivery Completion Test

Whilst a delivery is being made, press the same operating button a second time; no further delivery should take place until the initial delivery is completed.

Note: A delivery may be paused to allow for realigning of the purchaser's bottle or to change receptacle by pressing the "START/PAUSE" button whilst the dispenser is delivering.

2. Low-level Cut-out Test

Partially empty the supply tank so that no more than 40 litres of water is remaining and 'OFF' is displayed; attempt a delivery. Observe that the marked 'PRODUCTION IN PROCESS PLEASE WAIT' light is illuminated. Ensure that delivery of any quantity is not possible, and that inserted coins are refunded.



Australian Government
National Measurement
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Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 4/9/5
Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the
Water U Fill To Go Model DFSS 1700 Water Dispensing Instrument
submitted by East Coast Water U Fill To Go Pty Ltd

1/29 Sunset Boulevard
Surfers Paradise QLD 4217.



1. In Technical Schedule No 4/9/5 dated 6 September 2005 the following sub-clauses should be added to clause **1.2 System Description**:
 - “(vii) An Elster model V100 15 mm potable water vend meter with a pulse output signal.”
 - “(ix) A non-return valve is located after the meter, integrally with the dispensing spout (Figure 2).”

(Note: The existing sub-clauses currently numbered (vii) and (viii) should be renumbered (viii) and (x), respectively.
2. In Technical Schedule No 4/9/5 dated 6 September 2005 the following changes are made in clause **1.3 Operation**:
 - (a) The following text should be deleted from the 2nd paragraph:

“... and opens the solenoid valve ...”
 - (b) The following paragraph should be added after the 2nd paragraph:

“When the pre-determined quantity has passed through the Elster vend water meter, sufficient pulses will have been sent to the vend controller board and it will then terminate the delivery by closing the solenoid valve and stopping the pump.”

3. In Certificate of Approval No 4/9/5 dated 6 September 2005, the FILING ADVICE should be amended to read;

“Figure 2 dated 6 September 2005 is replaced by the Figure attached to Notification of Change No 1 dated 8 July 2008, and should now be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 4/9/5 dated 6 September 2005
Technical Schedule No 4/9/5 dated 6 September 2005 (incl.
Test Procedure)
Notification of Change No 1 dated 8 July 2008
Figures 1, 3 and 4 dated 6 September 2005
Figure 2 dated 8 July 2008”

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

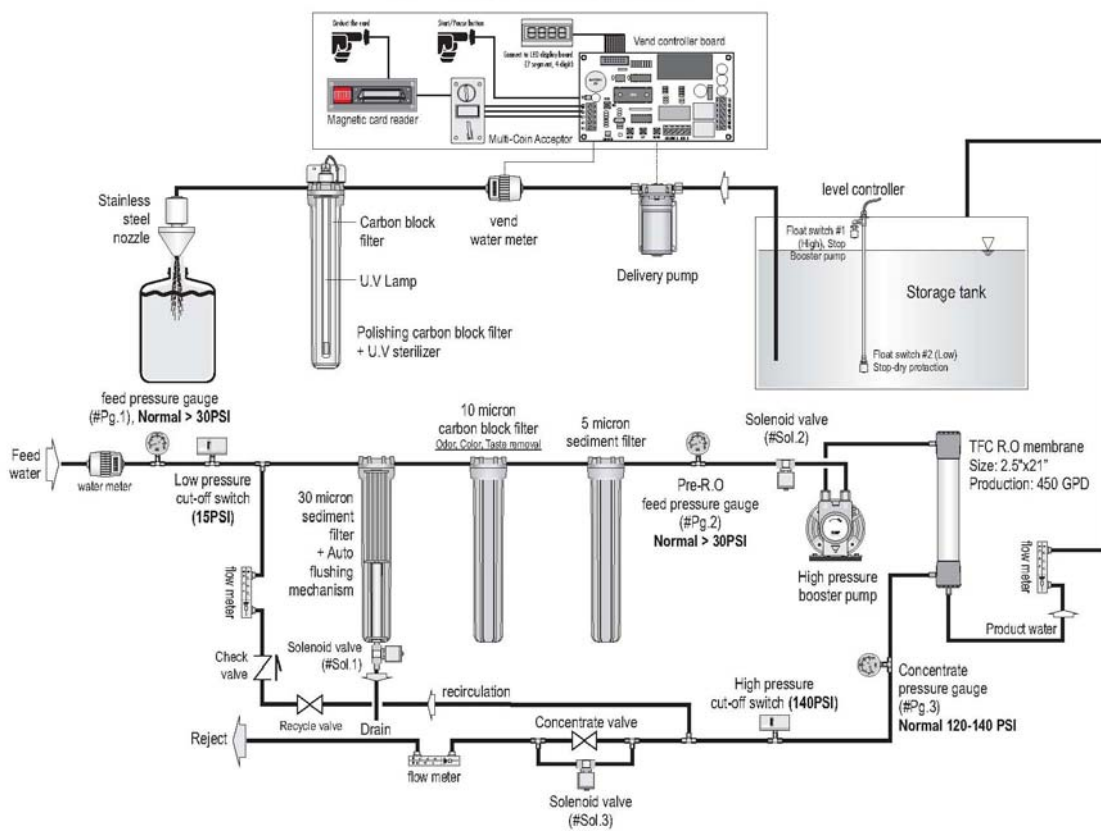
A handwritten signature in black ink, appearing to be 'J. K. T.', written in a cursive style.

FIGURE 4/9/5 – 1



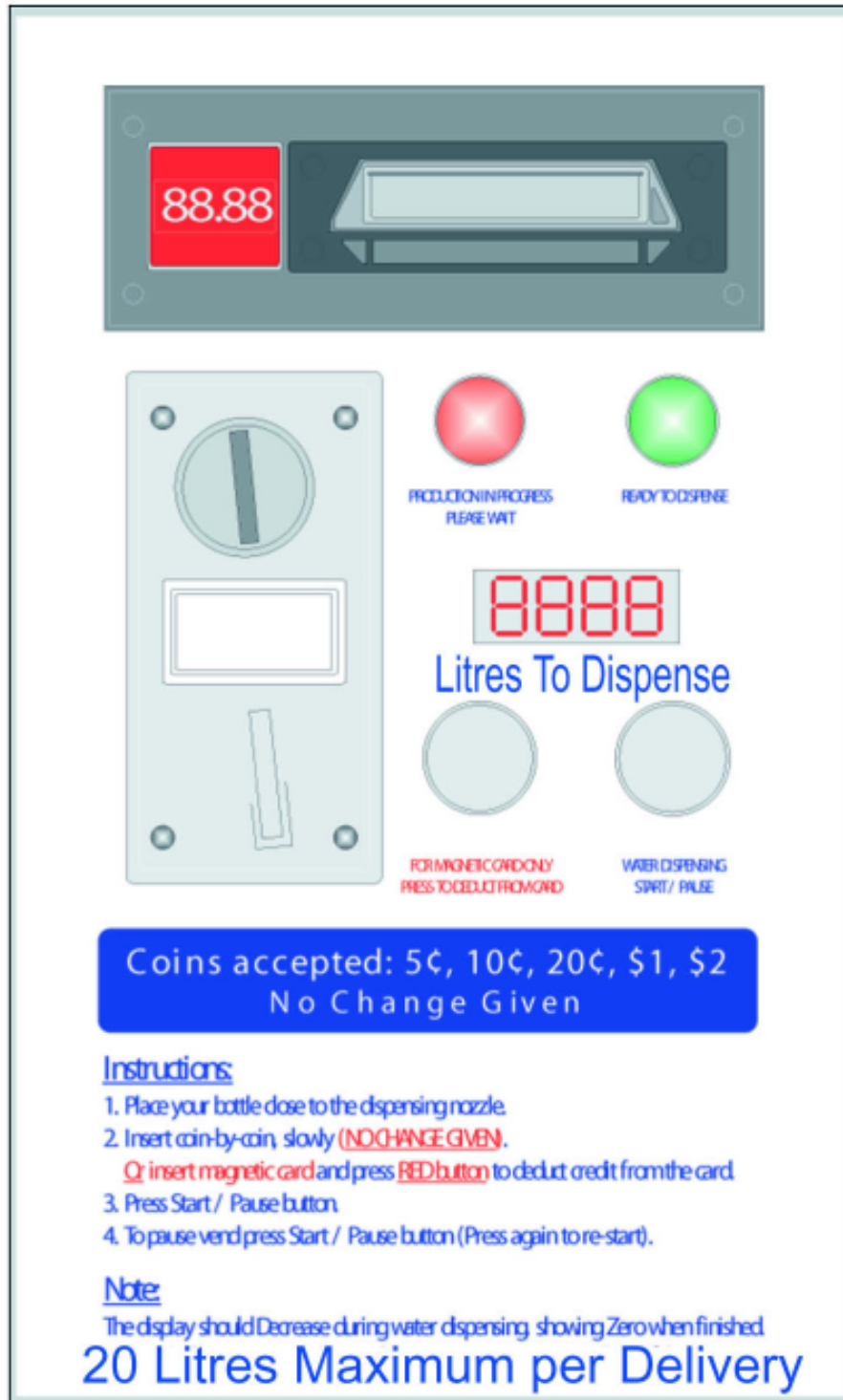
Water U Fill To Go Model DFSS 1700 Water Dispensing Instrument

FIGURE 4/9/5 – 2



Model DFSS 1700 Water Dispensing Instrument – Some Major Components

FIGURE 4/9/5 – 3



Purchaser's Control Panel

4/9/5
6 September 2005

FIGURE 4/9/5 – 4



Shurflo Model 2088-592-094 Pump