



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

## **Certificate of Approval**

### **No 5/6S/14**

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

QV Pumping Technologies Model BARiQ A308 Remote-storage Spirit Dispenser

submitted by           QV Pumping Technologies Ltd  
                                  13 Nairn Street  
                                  Fremantle   WA   6959.

**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.

This approval has been granted with reference to document NMI M2, *Pattern Approval Specifications for Beverage Dispensers*, dated June 2004.

#### **CONDITIONS OF APPROVAL**

This approval becomes subject to review on 1 April 2012, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 5/6S/14' and only by persons authorised by the submittor.

It is the submittor'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 7 March 2008

- A QV Pumping Technologies model BARiQ A308 remote-storage spirit dispenser of 30 mL capacity.

**Variant:** approved 7 March 2008

1. Programmed to dispense quantities of 15 mL or 60 mL.

**Variant:** approved 13 June 2008

2. To dispense Southern Comfort.

Technical Schedule No 5/6S/14 describes the pattern and variants 1 & 2.

**Variant:** approved 14 January 2010

3. Model BARiQ T5 dispenser.

Technical Schedule No 5/6S/14 Variation No 1 describes variant 3.

#### FILING ADVICE

Certificate of Approval No 5/6S/14 dated 16 June 2008 is superseded by this certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 5/6S/14 dated 14 April 2010  
Technical Schedule No 5/6S/14 dated 16 June 2008 (incl. Test Procedure)  
Technical Schedule No 5/6S/14 Variation No 1 dated 14 April 2010 (incl.  
Notification of Change)  
Figures 1 and 2 dated 16 June 2008  
Figures 3 and 4 dated 14 April 2010

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 5/6S/14

**Pattern:** QV Pumping Technologies Model BARiQ A308 Remote-storage Spirit Dispenser

**Submittor:** QV Pumping Technologies Ltd  
13 Nairn Street  
Fremantle WA 6959

### 1. Description of Pattern

The QV Pumping Technologies model BARiQ A308 remote-storage spirit (liquor) dispenser approved to deliver brandy (including cognac and armagnac), gin, rum, vodka or whisky (whiskey) in quantities of 30 mL. The pattern operates with version 1.04.xx software.

#### 1.1 Field of Operation

The field of operation of the measuring system:

- Ambient temperature range 5°C to 40°C
- Designed to dispense a quantity of 30 mL
- Mains voltage range 204 to 264 V AC

#### 1.2 System Description

The system (Figure 1) consists of the following:

- (a) A model A308-DF 'Dispenser Fount' with up to 8 buttons to select the spirit to be dispensed and 3 option buttons which can be operated in conjunction to deliver quantities which are not on the default setting. Each button lights up when the line is ready to deliver.
- (b) A model A308-FC 'Fount Controller' which:
  - controls all the operations of the 'Dispenser Fount', it also has a facility to perform calibration via a computer; and
  - may house a micro reader (to initiate a delivery) which works in conjunction with a wrist band RF ID tag. (Note that these items are optional and are not used in all installations).
  - may be fitted with external computer connectors (interfaces) which allow the transfer of information to POS and bar management systems.
- (c) A model A308-RP 'Reservoir & Pumping box with up to 8 quadrant vane measuring pumps. Each pump has:
  - a stepper motor;
  - a reservoir on top of the pumping unit - the reservoir has a low and a high spirit level sensor; and

- a solenoid valve to start a delivery and to stop when there is insufficient liquor in the chamber.
- (d) A model A308-D2 character liquid crystal display purchaser's indicator (Figure 2) located in a position clearly visible to the purchaser.
- The indicator shows the pour size, the type of spirit being dispensed and the units of measurement.
- (e) With up to 8 remotely-mounted beverage pumps using non-pressurised bulk spirit supply tanks. The system can also operate with pressurised bulk spirit supply tanks in this case the beverage pumps are not required.

### 1.3 Operation

A prescribed quantity of spirit is delivered when RF ID in the form of a wrist band is passed through the RF reader and a button on the dispensing tower is pressed. A delivery once started cannot be stopped by the operator and all buttons on the dispensing tower are rendered inoperative throughout this cycle. A further delivery cannot be started until the delivery is complete.

### 1.4 Markings and Notices

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



|   |             |
|---|-------------|
| Manufacturer's mark or name written in full | .....       |
| Model designation                           | .....       |
| Serial number of the instrument             | .....       |
| Pattern approval mark for the instrument    | NMI 5/6S/14 |
| Year of manufacture                         | .....       |

The purchasers' indicator displays the pour size, type of spirit being dispensed and the units of measurement.

### 1.5 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

### 1.6 Sealing Provision

Provision is made for access to the calibration adjustments on the controller box and pump box to be sealed by means of destructible labels in a way that any movement will deface the seals, or by the use of tags which cannot be removed without defacing the tag.

### 1.7 Software Version Checking

The operating software version number can be checked by pressing the "menu/up" button on the left of the operator display keypad. The operator display screen will show the software version number on the bottom line of the screen.

## **2. Description of Variants**

### **2.1 Variant 1**

With any or all of the buttons on the dispensing tower programmed to dispense 15 mL or 60 mL deliveries.

### **2.2 Variant 2**

Approved to dispense Southern Comfort.

## **TEST PROCEDURE**

Instruments shall be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

### **Maximum Permissible Errors**

The maximum permissible errors are specified in Schedule 12 of the *National Measurement Regulations 1999*.

### **1. Low-level Cut-out Test**

The low-level cut-out test may be initiated by any of the following methods.

At the bulk supply tank, either:

- (a) empty its contents until no liquid remains;
- (b) turn off the outgoing liquid control tap; or
- (c) disable the pump.

TECHNICAL SCHEDULE No 5/6S/14

VARIATION No 1

**Pattern:** QV Pumping Technologies Model BARiQ A308 Remote-storage Spirit Dispenser

**Submittor:** QV Pumping Technologies Ltd  
13 Nairn Street  
Fremantle WA 6959

**1. Description of Variant 3**

The QV Pumping Technologies model BARiQ T5 remote-storage spirit (liquor) dispenser (Figures 3 and 4) which is similar to the pattern (model BARiQ A308) but uses updated software and hardware.

The updated hardware includes:

- a model T5-DF 'Dispenser Fount' which uses a touch sensitive LCD screen for operator control,
- an RF ID tag reader to initiate deliveries, and
- a model T5-RU 'Reservoir Unit' which mounts adjacent to the 'Delivery Fount', and houses the local reservoirs and metering devices.

Another LCD screen for use as the purchaser's indicator is also attached to the T5-DF in a position clearly visible to the purchaser.

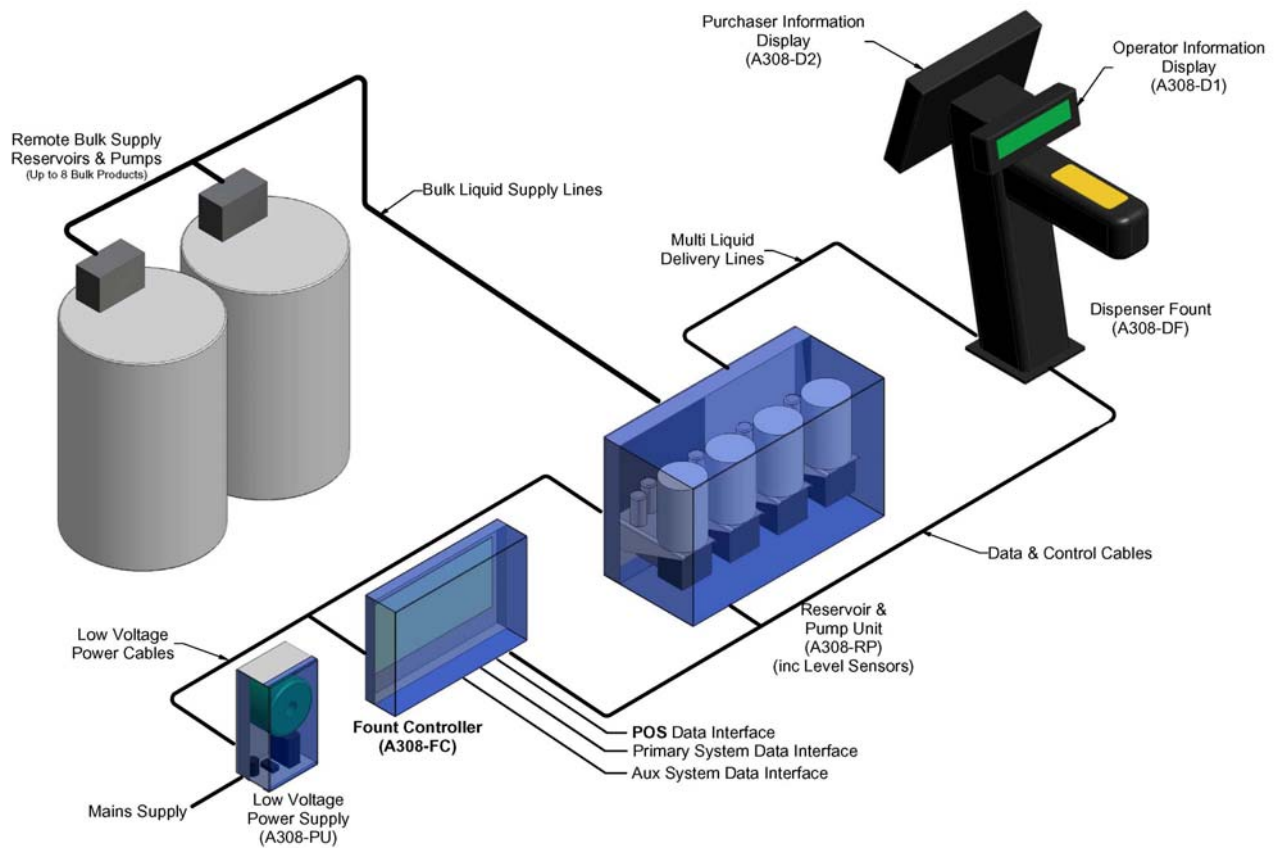
The model **BARiQ T5** operates with version 1.2 software.

NOTIFICATION OF CHANGE

In Technical Schedule No 5/6S/14 dated 16 June 2008, clause **1.4 Markings and Notices** should be amended by adding the following as the manufacturer:

Manufacturer's mark, or name written in full **Beverage Dispensing & Monitoring Ltd**

FIGURE 5/6S/14 – 1



QV Pumping Technologies Model BARIQ A308 Remote-storage Spirit Dispenser

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FIGURE 5/6S/14 – 2



Model A308-D2 Purchaser's Indicator



FIGURE 5/6S/14 – 3

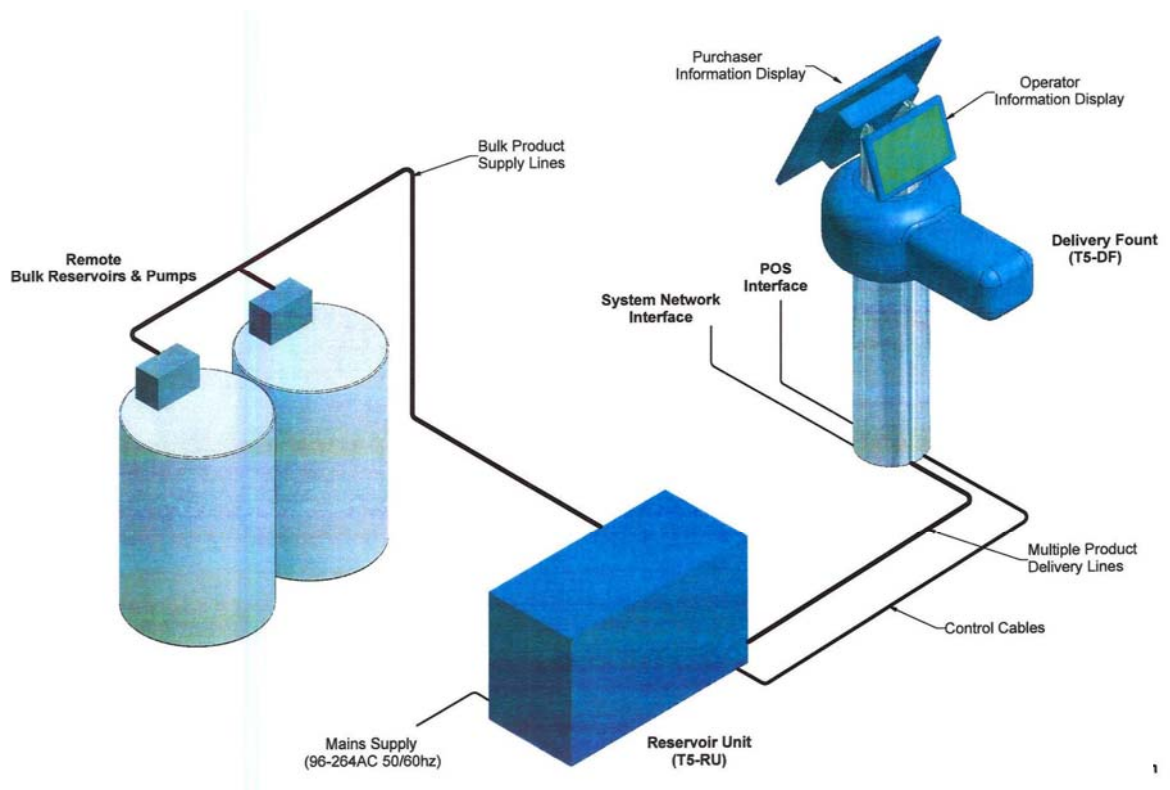


FIGURE 5/6S/14 – 4



(a) BARIQ T5 – Purchaser's Indicator



(b) BARIQ T5 – Operator's Indicator



(c) BARIQ T5 –T5-RU 'Reservoir Unit'