

MODELS WD3000, WD3000N, WD2500 & WD2500N

SPECIFICATION DATA SHEET

(See Brochure # 1632-3v2 for System Overview)

WATER DISPENSING STATIONS



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WATER DISPENSING STATIONS

Also Known As: **Water Filling Stations**
 Tanker Filling Stations
 Stand Pipes
 Water Vendor Systems
 Pre-Paid Water Delivery

Product Range

Abberfield produce a wide range of pre-payment Water Dispensing Stations and all of these can be customised to meet specific needs. Abberfield are solution engineers with a Research and Development capability. As well as a manufacturing team, providing concept to delivered product.



The specifications of the models listed are for guidance and customers application enquires are always welcome. Creative capability meets practical implementation.

Design Objective

Water Dispensing Stations must operate in harsh environmental conditions of heat, cold, dust and often abusive users. Important too is the essential service of water delivery. Communities must have water on demand. Rugged and highly reliable systems are essential.

Achieving the design objectives mandate an extraordinary level of quality; design, materials, construction, and customer support. The conflict of quality and the financial constraint of Council or Water Authorities is recognised by achieving whole-of-life savings, in preference to just initial purchase price considerations.

Abberfield's Water Dispensing Stations should operate for decades, with minimal maintenance and very little equipment failure. The cabinets will not rust (being made of stainless steel) and the controllers are rated for 75 degrees centigrade temperatures and the product selection buttons are solid kick-proof with contacts encased in inert gas sealed environment.

The purchase price includes a high level of customer support, pre and post purchase decision. Site visitations are offered to ensure the equipment customisation is the best fit for purpose, followed by commissioning support and Abberfield's respected technical help desk.

Confidence of commitment is demonstrated by past customer's testimonies.

Card systems (The range)

These water dispensers accept payment by credit card or account card.

There are standard designs, each configurable to meet customers specific needs.

Model WD3000	80mm plumbing, 80mm plus 25mm outlet, backflow protection internal
Model WD3000N	80mm plumbing, 80mm plus 25mm outlet, backflow protection external
Model WD2500	50mm plumbing, 50mm plus 25mm outlet, backflow protection internal
Model WD2500N	50mm plumbing, 50mm plus 25mm outlet, no backflow protection

The WD3000 and WD3000N are functionally the same. Physically the WD3000 has the back-flow device (residual pressure zone device, RPZ), fitted inside of the cabinet for neatness and security, whilst the WD3000N has the RPZ external, usually protected by a locked cage. The WD3000 is marginally wider and deeper.

WD3000 Specification

Dimensions

Width: 700mm wide
Depth: 700mm deep (body)
 750mm deep (including heat shield)
Height: 1800mm high

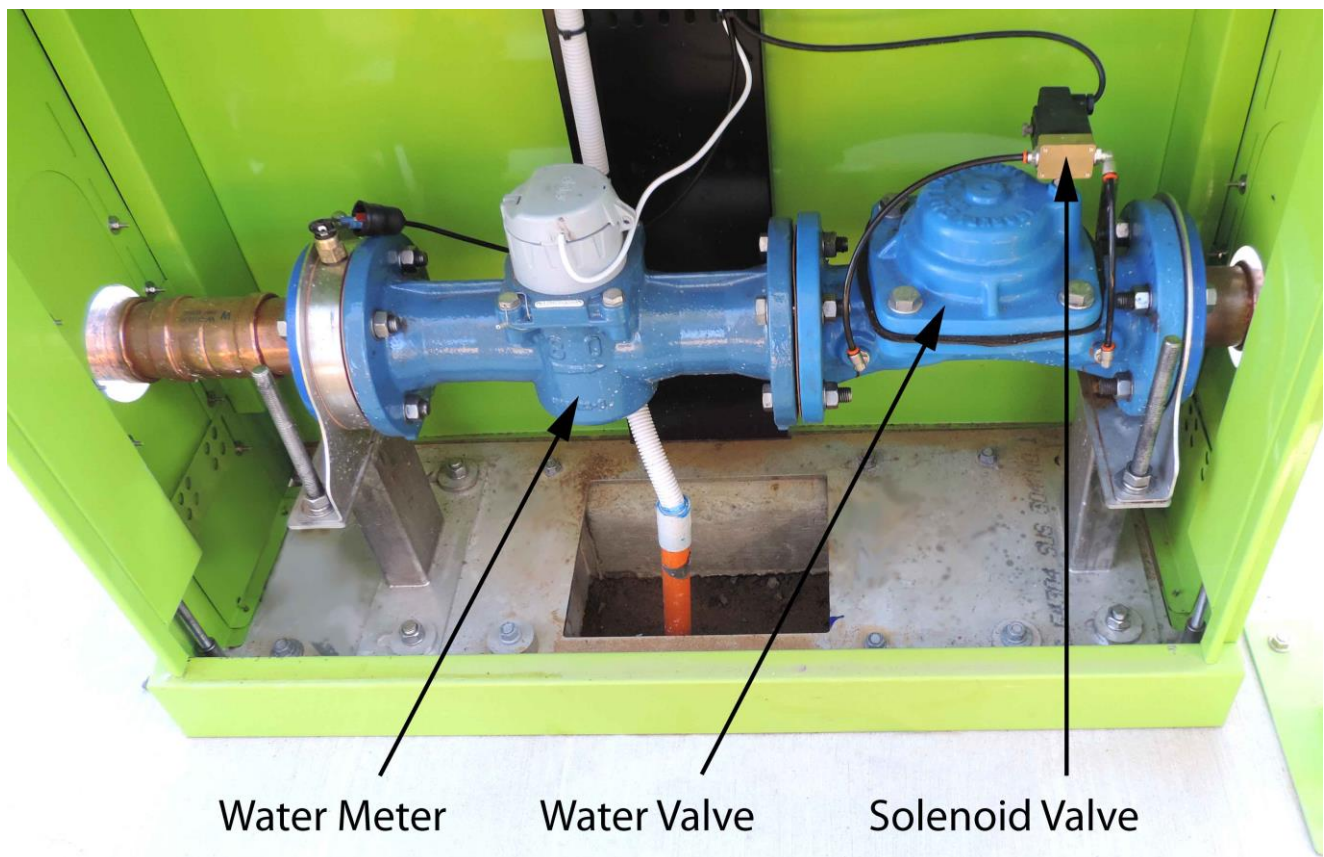
Installation

See www.abberfield.com.au and click on Products, then Water Dispensing, then Technical. Refer to Installation Manual 170818-1 rev 1.3 PDF

Optional Functionality

- Coin or token payment option.
- Mains failure battery back-up.
- On-board solar operation.
- Separate larger solar on a pole.
- Anchor plate for imbedding into concrete.
- Quick release of top cabinet for machines in flood plains.
- Remote monitoring options (sleep-mode setting, rebooting, machine bypass etc.).
- Front panel lighting.
- Alternate plumbing pipe sizes.





WD3000N Plumbing

WD3000N Specification

Dimensions

Width: 1100mm wide
Depth: 410mm deep (body) 550mm deep (including heat shield)
Height: 1600mm high

Installation

See www.abberfield.com.au and click on Products, then Water Dispensing, then Technical. Refer to Installation Manual 170818 rev 1.10 PDF

Plumbing

- 80mm plumbing system, (80mm and 25mm outlets).
- 80mm cam lock outlet controlled by butterfly valve with gear head (for slow close to avoid water hammer).
- 25mm tap outlet.
- Preambled plumbing system pressure tested, mounted on 12mm stainless steel ground plate.

- Ester displacement flow meter.
- Emflow servo assisted soft close water valve. Burkert 3-way pilot valve.
- Water pressure switch integrated to remote diagnostic monitoring system.
- Plumbing mounted on height adjustable stainless steel stands.
- Full access removable locked door to plumbing section with double-acting claw lock and 6 tumbler security key.
- Housing in painted 316 stainless-steel, coated to customer's colour choice or default colour of acid green.
- Customer supplied (or optionally supplied by Abberfield) back-flow protection, fitted external to cabinet in a locked cage.



Electronics

- Credit Card operated (Master Card or Visa Credit or Debit Card).
- Account Card option.
- Integrated switchboard RCD controlled switch and internal RCD controlled power point.
- Switchboard has space for meter on board if required. **Note** system power is so low that meters have never been required.
- 6 tumbler Supply Authority approved lock assembly operating a 10-point double-acting stainless steel security system.
- Control cabinet with locking system matching the switchboard and plumbing section.
- Electronics are directly plugged in modules, power supply, control module, configuration module and battery module. Sealed plug-in modules allow on site exchange of parts by unskilled persons.

Other Features

- Overhead heat shield encloses an optional solar panel.
- "Top down" mounting secures cabinet from the upper section on long stainless-steel bolts. Top-down mounting places the cabinet in compression, ensuring a ridged structure.
- Kick proof buttons (magnetically operated contacts in sealed capsule).
- Cabinet lifts off a secure removable stainless steel ground plate to allow ease of relocation.
- Top lifting bolts are used for installation which are then removed and replaced by security bolts.

WD2500 Specification

Dimensions

Width: 750mm wide
Depth: 225mm deep (body)
450mm deep (including heat shield)
Height: 1780mm high

Installation

See www.abberfield.com.au and click on Products, then Water Dispensing, then Technical. Refer to Installation Manual 170818-1 rev2.8 PDF



Plumbing

- 50mm plumbing system (50mm and 25mm outlets).
- 50mm cam lock outlet controlled by multi turn gate valve with flap valve at exit.
- Gate valve can be external to the cabinet, or internal (shaft protruding), to prevent possible theft.
- 25mm T tap outlet with flap valve at exit.
- Outlets angled down (to prevent contamination).
- Screwed plumbing system pre-assembled and pressure tested.
- Concealed plumbing usually vertically rising into secure stainless-steel housing.
- Ball valve on incoming pipe.
- Split unit allows removal of the complete plumbing system.
- Ultrasonic flow meter.
- Burkert pilot operated servo assisted soft close water valve.
- Testable double check valve with strainer and isolation ball valve.
- Plumbing outlets are height adjustable to accommodate varying input connections.
- Full access removable panel via concealed security screws.

Electronics

- Credit card operated (using Visa or Master Card, debit card or credit card).
- Account card option.

- Electronics are directly plugged in modules, power supply, control module, configuration module and battery module. Sealed plug-in modules allow on site exchange of parts by unskilled persons.
- Mains operated.
- Solar operation - optional.
- Optional integrated switchboard RCD controlled switch and internal RCD controlled power point.
- Control cabinet with 10-point double-acting locking system.

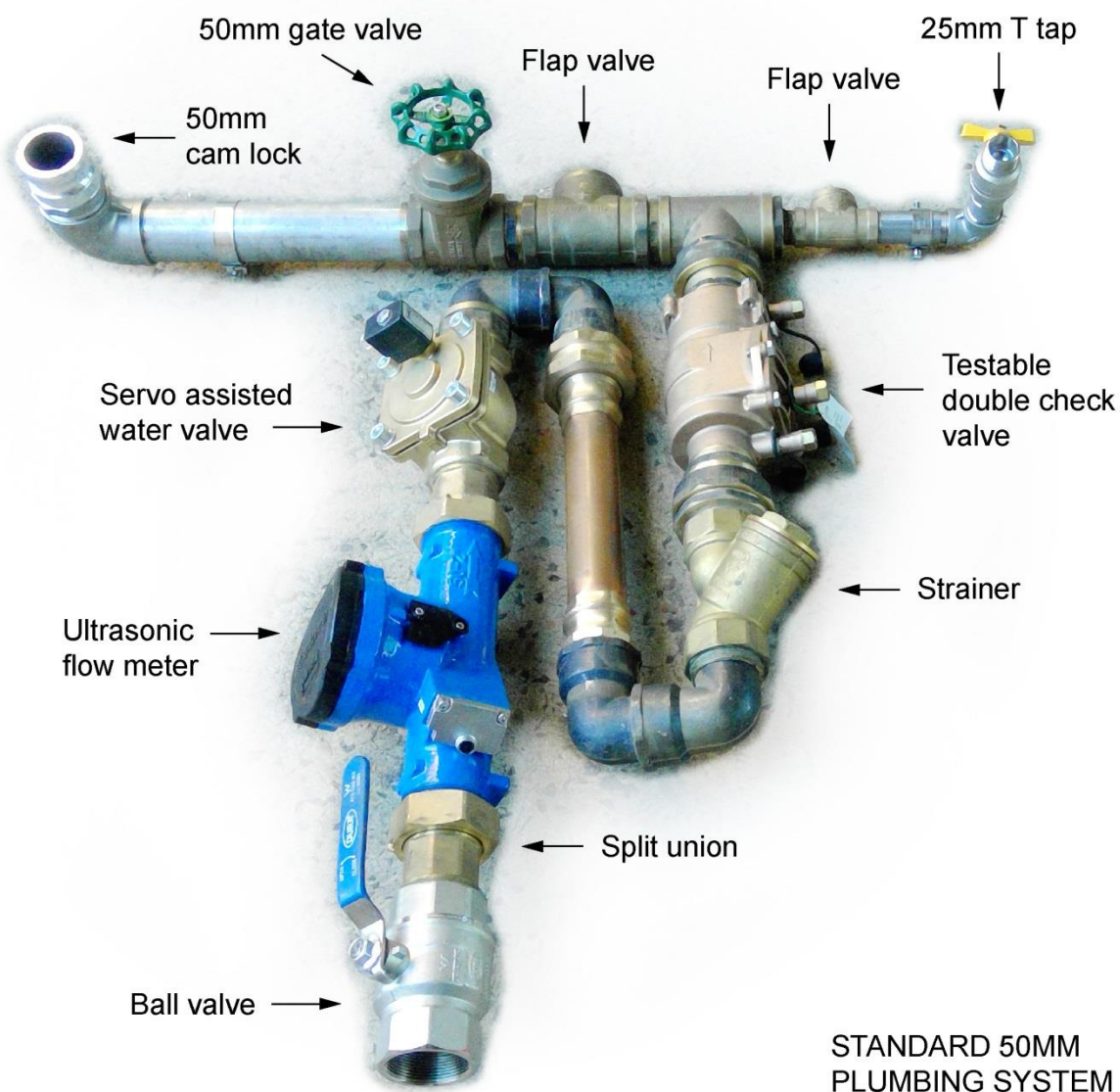
Other Features

- Overhead heat shield and rear heat deflector.
- Kick proof buttons (magnetically operated contacts in sealed capsule).
- “Top down” mounting securers cabinet from the upper section on long stainless-steel bolts. Top-down mounting places the cabinet in compression, ensuring a ridged structure.
- Cabinet lifts off a secure removable stainless steel ground plate to allow ease of re-location.



WD2500 with internal back-flow prevention





Alternative plumbing using ultrasonic flow measurement

WD2500N Specification

This cabinet is narrower and is designed for properties that already have backflow protection. Even so extra flap valves are added to provide one way water delivery with effectively zero reduction to the water delivery rate.

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