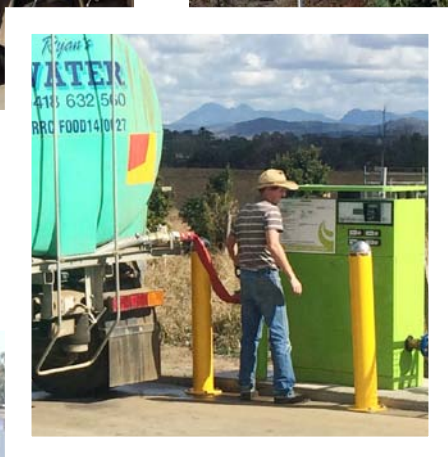


SERIES WD3000N, WD2500 & WD2000

(See Brochure # 171206 and versions for more complete Specifications)

WATER DISPENSING STATIONS



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COMMON FEATURES

PAYMENT METHODS

Any combination of the following can be used to suit customers' needs:

- Credit Card
- Account Card
- Stored Value card
- Token payment
- Coin payment



CREDIT CARD

- Includes Visa and MasterCard credit cards and debit cards.
- Transactions are normally limited to \$100.00 to comply with rules that permit card usage without using a PIN.
- Supports "Tap and Go" (near field proximity cards) and contact chip cards.



ACCOUNT CARDS

- Allows access to water dispensing with subsequent billing for water consumed, usually on a monthly basis.
- Data for invoicing can be downloaded to a customer's IT system, allowing the customer to create "in house" accounts.
- Generic or customised cards available.

DROUGHT RELIEF CARDS

Account cards can be used as free or discount rate water access cards.

STORED VALUE CARDS

Effectively a pre-paid account card.



TOKEN PAYMENT

- Tokens can be supplied by Abberfield Industries for use through a purpose built coin/token validator. Standard Abberfield tokens are available or the tokens can be customised with a customer's image.
- Gold, silver and bronze tokens validate for different amounts of water.



COIN PAYMENT

- All coin denominations can be used, accurately checked for metal type as well as physical size.
- A display indicates the credit inserted and water taken.
- Coin **and** tokens payment in one validator.

DESIGN CONCEPTS

OPERATING PLATFORM

Operation can be by:

- Mains only.
- Mains with battery backup.
- Solar only.
- Solar with mains back up.

The WD2000, WD2500 and WD3000N series use the same electronic and software platforms and most parts are interchangeable. The physical differences arise from the constraints of housing the plumbing.



MODULAR CONSTRUCTION

The equipment has been designed and built to suit the application and therefore is different to conventional vending machines. In particular, wherever possible self-contained sealed components plug directly into gold plated self-aligning chassis mounted plugs. These components of power supply, system controllers, battery, charger and configuration module are held in place by 2 screws.

These screws ensure the integrity of the electrical connections and their removal is all that is required to allow unplugging of each module, by unskilled or untrained persons.

Enclosing each module is to minimise the ingress of insect infestation and the exchange of air. This eliminates water vapour (humidity) and dust that can settle over the circuit boards and with the exclusion of humidity corrosion of circuit board is prevented, providing a much longer product service life with minimal or no maintenance cost.

SYSTEM BYPASS

There are two ways to bypass the card operation.

1. Bypass switch positioned on the configuration module.
2. Mechanical bypass within the plumbing assembly.

It is normal to use the switch bypass for short-term usage and the manual means for extended use.

SWITCHBOARD OPTION

Both the WD2500 and the WD3000N can incorporate a mains switchboard within a separate inbuilt cabinet. This provides overload and residual current device (RCD) protection for maximum safety. Also included is an RCD protected power point, handy for site maintenance.

On request a further option is to include a mains meter and council fuses.

REMOTE METERING

With the account card or stored value card the machine is connected via 3G to an Abberfield specific back office portal. This enables a considerable amount of reporting and machine control. Critical faults such as mains failure, loss of water pressure and machine faults can be automatically emailed to nominated recipients. Machine interrogation allows a study of operating conditions; battery voltage, solar output etc. Customer complaints can be analysed and user error identified in real time or from historic records.



Control of the machine via the portal can include turning the machine on or off, payment bypass for a single transaction or until returned to payment mode and hours of sleep mode operation. The configuration of the machine access portal can be tailored to a customer's particular needs.





Vandalism and plumbing theft is controlled by only having the outlets protruding from the cabinet. Outlets are usually angled down to ensure contaminants (one hose fitting to another) do not settle in the plumbing.

Whilst 50mm/25mm dual outlets are the

standard, some applications need only 25mm plumbing, i.e. boat wash down (boat ramps) or boat filling (marinas), motor home or caravan filling (information centres) or horse wash down (arenas).

WD3000N series

Designed for 80mm surface mounted plumbing with external RPZ. Contained within the housing are the flow meter, water valve and solenoid valve. Incoming plumbing can enter from the left or from the right side.

WD2500 series

With self-contained plumbing within the cabinet there are two standard configurations.

1. Internal back flow prevention (testable double check valves, plus two swing check valves).
2. External back flow protection by Residual Pressure Zone Device (RPZ).

The flow meter, solenoid valve, strainer and isolation tap are within the lower cabinet, easily accessed and removable by way of split union connections.

PLUMBING OPTION

Incoming plumbing is usually 50mm and outlets are 50mm cam lock, plus 25mm ball valve.

Incoming plumbing can be by surface plumbing, however normally and preferred is vertical rising plumbing through the base of the machine, making for a totally concealed plumbing system.



WD2000

PHYSICAL

WD3000N

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

WD2500

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

WD2000

Width: 520mm wide
 Depth: 225mm deep (body)
 410mm deep (including heat shield)
 Height: 1620mm high



WD2000 series

Smaller than the WD3000N and WD2500, the WD2000 has 25mm plumbing, intended for Caravan or Recreational Vehicle filling or boat or horse wash down application (boats, horses, abattoirs etc).

Still self contained with plumbing in the base and the control system in the top cabinet.



- The switchboard of the larger Filling Stations gives way to a single supply switch, again as a cost measure. Also because most applications for the small Filling Stations will not be connected direct to the mains water supply and will be protected by the local premises supply wiring.

Given that lower volumes of water sales (smaller hoses) reduces the financial viability of an installation, some economies are implemented with the design and features. However, the same quality of material and manufacture, plus the same electronic controller and functionality, give the assurance of rugged, reliable long operating life.

- In-built back flow protection in the WD2000 is standard.
- There is a sunshield as an option (standard on the WD2500 and WD3000N Filling Stations, not standard on the WD2000 as a cost measure).



• TOTAL SUPPORT

- Abberfield travel widely to demonstrate the Water Filling Stations.
- Equipment deliveries are by Abberfield staff who double as installation advisors.
- Installation can be by customer's own staff or their appointed contractors, or Abberfield can organise the complete process. Additional to the Filling Station a number of contractors used by Abberfield can offer civil works such as driveway construction.
- Post installation inspection and commissioning is usually carried out by Abberfield.



All machines use a time tested “top down” mounting system that provides maximum physical security whilst allowing ease of removal for relocation of equipment.

APPLICATIONS

- **The distribution of water for a rural town, via tanker driver, user tank filling or for motor homes or caravans.**
- Truck wash down at abattoirs and sale yards.
 - Weed seed control by vehicle wash down bays.
 - Ship water tank filling.
 - Boat filling at marinas.
 - Boat wash down at boat ramps.
 - Horse wash down at arenas.
 - Small plane wash down at aerodromes.

CONSTRUCTION

All equipment is produced in stainless steel powder coated to the customer's choice of colours. Screw fastening throughout are of stainless steel.



OTHER WATER DISPENSING STATIONS

For many years Abberfield have produced coin or token operated water stations, from simple wall mounted systems to the industry standard free standing self-contained systems. Outlet pipe sizes can be 25mm or 50mm or both in the one stand.

WDT10 with enclosed flow meter and solenoid valve



Customised tokens



CE10 with separate flow meter and solenoid valve



WD1000 self-contained, free-standing system, includes back flow prevention



**Australian Owned
Australian Design
Australian Manufacture**



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