



# Instructions for Use

**Title:** Arlington Emergency Water Tank (AEWT) IFU

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## Description

The AEWT system is for the supply of potable water to the general public for the mitigation of water supply issues when normal mains supplies are not available.

The AEWT is a collapsible polypropylene box, with a LDPE liner that fits inside the box to contain the water. The liner has integrated inlet and valved outlet ports and is always new at the time of its initial filling. When filled the liner contains only water and will collapse as the water is used. The liner acts as a barrier between external contaminants such as dust, fumes and the water, it prevents oxidation of the water and residual chlorine levels within the water from dissipating into the air.

The outer container, as well as mechanically and thermally protecting the liner provides a high level of UV protection.

The two parts of the tank system ensure water quality is maintained at as high a level as possible.

The AEWT is supplied with a base to raise the unit to a suitable level for gravity fed applications, also a deployment box with taps, lid seals and a short instructions or use.



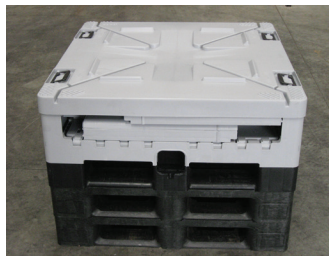
## Pre-Commissioning

The AEWT should be stored in normal ambient warehouse conditions in its collapsed condition to ensure there is no-build up of detritus inside. The units can be stacked full, empty and collapsed (see specification for stacking and temperature guidelines). The AEWT will have been delivered in a clean condition and as the unit itself does not come into contact with the water the cleanliness of the unit itself is important only for cosmetic, customer facing reasons. Because the system does not require routine maintenance it can be stored in satellite locations for rapid response.

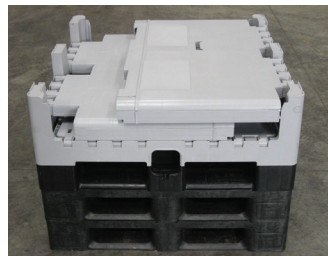
Before use the unit should be checked to ensure that no material or detritus has been allowed to gather in the base of the tank and removed if it has.

The Liners should be stored in dark, dry ambient conditions either loose in the dedicated boxes supplied or individually wrapped in tamper evident wrappers. Liner bags should only be removed from the sealed box or wrapper immediately prior to assembly. There is no need for cleaning or disinfection to take place.

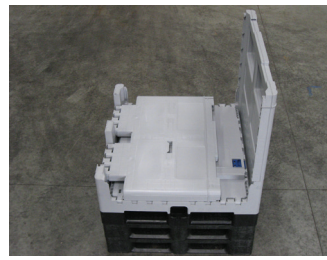
## Assembling the Arlington Emergency Water Tank (AEWT)



Remove lid by lifting the locking handles and sliding towards the centre.



Using the side handles raise each side panel one at a time.



Make sure each panel is firmly locked into position.



Once all sides are firmly locked into place, lift and drop down the front gate to install liner.

Note: For gravity fed applications the AEWT should be deployed with the black base as shown, for AiS pumped applications the tank can be deployed without a base.

## Fitting of DWI approved liners



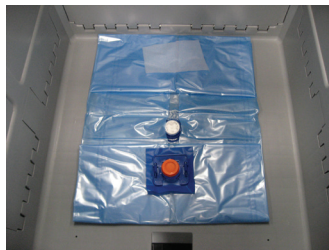
All liners supplied by Arlington into water applications are as specified under DWI regulation 31. They will be found in deployment boxes or individually wrapped as shown.



The liner will be blue, should be neatly folded and stored in the dark (away from UV light).



The outlet port cap will have a tamper evident seal attached to it.



Place in the bottom of the AEWT and unfold it as shown, ensuring the outlet port on liner is next to the outlet port on AEWT.



Lift and drag the outlet port (orange) towards the outlet port on the AEWT keeping liner material clear from snagging.



Push the liner valve down and forward into the AEWT port. Clips on either side will engage with the AEWT.



An audible 'click' can be heard as the fitment engages. The liner is now in place and ready to be filled.

## Filling the liner

Note: The liner can be filled from any approved water source, tanker, hydrant, boundary box taking all of the usual hygiene precautions as prescribed by water quality departments (flushed hoses, sampled source water assembly with 1000ppm chlorine spray).



Without further unfolding the liner remove the white cap and insert the 2" cam adaptor to the inlet port.



To this attach the appropriate filling adapter for the filling source (the rigid fill hose provided shown here).



The fill hose provided enables for a rapid stable fill. **The fill hose must only be used for filling liners\***



When the liner is half full, pull the four sides towards the centre to unfold the rest of the liner.

\* Liner bags are very strong and will withstand rapid filling where appropriate. We provide a length of rigid fill hose to enable a rapid fill. If filling directly to the liner with layflat hose, care must be taken to prevent excessive flapping which can displace the liner.



## Connecting a fitment to the outlet port



Remove cap (tap cannot be turned with cap on).



Attach the open/close handle to the outlet liner valve spindle. The valve opens clockwise



Attach the required outlet fitment, make sure the outlet ends up pointing downwards.



Open the liner valve by pushing the key to the left. Remove the valve key if required.

## Closing and sealing the AEWT



Put lid on and secure with locking handles. Place security tags around handles to prevent any tampering.



This photograph shows where the security tag should be placed on the locking handle.



To remove the security tag, cut as shown above.



**Left:** Gravity fed standalone AEWT



**Right:** AiS deployment  
No base, water from the AEWT being pumped directly back into supply.

## Water Quality and liner replacement

The system can be used either to contain a static body of water or as a part of the live water system as a break tank with water continuously flowing into and out of it. Different liner replacement and water quality monitoring rules apply in each situation. Liner changes must comply with company water quality procedures for each circumstance as well as the governing legislation; The Water Supply (Water Quality) Regulations 2000 (<http://www.legislation.gov.uk/ukxi/2000/3184/contents/made>).

It will be necessary for the water in AEWT's to be regularly sampled for quality purposes. Samples can be gathered using the correct hygiene procedures from the outlet point of the tanks **or** where the tank may be a temporary part of the distribution network, from an applicable consumer's tap, that is selected for the purpose.

## Disassembly

Any remaining water should be emptied from the tank avoiding emptying directly to surface water drains but rather across open surfaces to or vegetation to disperse any residual chlorine. Remove the tank lid and unclip and remove the liner bag. The bag which will not be used further should be disposed of into standard mixed recycling waste.

Collapse the tank sides; back, front, left, right (panels are numbered internally as an aide memoir) and replace the lid.

## AEWT SPECIFICATION

Arlington Reference	AEWT/TK 001
Outside dim. incl. lid (mm)	1155 x 1155 x 1132
Outside dim. excl. lid (mm)	1145 x 1145 x 1110
Folded height (mm)	467
Drop door	700 x 360
Inside dim (mm)	1065 x 1045 x 940
Height stacked (mm)	2 high: 2247, 3 high: 3362, 4 high: 4477, 5 high: 5592
Height folded (mm)	2 high: 917, 3 high: 1367, 4 high: 1817, 5 high: 2267, 6 high: 2717
Projected footprint area (m <sup>2</sup> )	1.33
Container capacity (kg)	1400
Tare weight (kg)	88.5
Max load stack (dynamic)	2977 kg (2 high)
Max load stack (static)	7442 kg (5 high)
Volume	Internal: 1.06m <sup>3</sup> , External: 1.51m <sup>3</sup>
Approximate open/collapsed ratio	2.5
Functional temperature range	-20°C to +40°C
Material	Polypropylene, food contact approved, fully recyclable

## LINER SPECIFICATION

Arlington Reference	AEWT/LB/958/1000 or AEWT/PP/958/1000
Dims OA (mm)	2020 x 2250
Fill port fitment	2" BSP (White cap)
Discharge port fitment	S60 integarted valve (Orange cap)
Liner plys	3
Ply #1 contact layer	70µ lldpe blue
Ply #2 middle layer	70µ lldpe blue
Ply #3 outer layer	70µ lldpe blue
Ply #	
Valve type	Butterfly
Valve key	Dogleg spanner IR (orange) shipped with liner

For further information or queries relating to the use and deployment of Arlington alternative and emergency water equipment please visit our website [www.emergencywater.co.uk](http://www.emergencywater.co.uk) or call our support number 0800 772 3140.



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