

AquaTech Pressmain

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AQUATANKS 'AQT' SERIES ONE & TWO PIECE BREAK TANKS

- 90 – 4500 Litres sizes available
- One piece Glass Re-inforced Plastic (GRP)
- 25mm standard Pre-insulation
- WRAS Approved
- Water Supply Regulations 1999 (Fluid cat. 5)
- Type 'AB' air gap (Raised Float Valve Chamber)



GENERAL

AquaTanks are moulded in one piece using GRP materials as approved by the Water Regulations Advisory Scheme. Built to BS EN 13280.2001. All tanks and lids are pre-insulated with 25mm (.85/mil°C) C.F.C free foam fully encapsulated within the laminates as standard. 50mm and 75mm insulation is also available on request.

All tanks comply with Water Supply Regulations 1999 (Fluid category 5) and incorporate a Type 'AB' air gap and are fitted with a raised float valve chamber with screened mesh slots/weir overflow.

All tanks are in light grey to BS5252.

CONSTRUCTION

Internal tank surfaces in contact with water are Isophthalic/Vinylester Gel coat. This ensures that harmful bacteria and algae are not offered a surface to adhere and multiply. Gel coats and pigments used for colouring are lead free. The use of colour pigmented resins and gel coats inhibits the ingress of light thus preventing any organisms present in most water from multiplying.

The tanks are designed to be fully supported over their entire base area. Structural strength is achieved by a combination of polyester resin and 'E' type long strand glass fibre reinforcement. The ratio of resin : glass is not less than 36% - 64% by weight. No fillers are used to extend the resin.

Tanks with capacities exceeding 1000 litres or height above 1200mm (excluding raised float valve chamber) will include integral box section steel reinforcement totally encapsulated within the laminates, thus preventing corrosion. In addition where necessary larger tanks will also have stainless steel cross bracing.

Lids: Insulated and with turned down flanges. Access manways are provided in any tank over 1000 litres.

Connections: Non insulated areas "pads" are provided to enable on site connections to be made without the need to remove the insulation. Extra pads can be cut by the installer if required.

PRODUCTION & QUALITY

Pre-insulated tanks are manufactured under controlled procedures to comply with BS4549 1997.

To achieve optimum results from the laminates only the highest quality materials are used all of which have passed full tests for the effect on water quality BS6920-1:2000.

Both the storage of materials and the manufacturing environment are carefully monitored to ensure that the quality of the finished product is to the high standards we require.

All tanks are given a full water test prior to despatch and each tank is clearly identified for traceability.

Leaders in fluid pumping equipment and controls

AquaTech Pressmain

AQUATANKS 'AQT' SERIES ONE & TWO PIECE BREAKTANKS



Typical AQT tank installation shown with optional upstand and an AquaTech Pressmain FEP fire set. Interconnecting pipework by others

PRE – INSULATION

Tank walls and lids are pre – insulated with an integral CFC/HCFC free poly-urethane foam core, sandwiched between the inner and outer GRP laminates to achieve the following range of 'U' values.

25mm insulation, Standard tank	'U' value 0.83 w/m ²
50mm insulation, Option	'U' value 0.43 w/m ²
70mm insulation, Option	'U' value 0.27 w/m ²

Tank bases can also be pre-insulated when specifically requested.

For ease of installation provision is made at production stage to prepare non-insulated pad areas for connection of fittings in order to prevent the penetration of the outer skin and insulation.

BASE SUPPORT

All tanks must be fully supported over their entire base area. The support system must be designed to accept and maintain support of the tank and lid together with the weight of the tank contents and associated pipework.

A range of steel upstands to support AQT tanks above booster sets are also available. These are supplied in kit form for easy site assembly.

TWO PIECE TANKS

Two piece tanks have a flanged joint midway up the main tank. This allows the tank to be taken through smaller entrances than a one piece tank. Everything required to join the two halves is provided.

AQT' SERIES ONE & TWO PIECE G.R.P. BREAKTANKS

Tank Reference	Nominal Capacity		Aprox. Actual Capacity		Ext. Dimensions (mm) LxWxH (inc. RBVC)*	Height of 2 piece sections (S1 / S2 / RBVC)**	Dry Weight (kg)
	Litres	Gallons	Litres	Gallons			
AQT20	90	20	65	14	775x475x900	280 / 280 / 340	10
AQT35	160	35	110	24	935x630x840	250 / 250 / 340	13
AQT50	225	50	170	37	780x780x990	325 / 325 / 340	18
AQT75	340	75	250	55	1085x785x990	325 / 325 / 340	22
AQT100	454	100	350	77	1220x750x1090	375 / 375 / 340	30
AQT125	570	125	440	97	1135x900x1140	400 / 400 / 340	38
AQT150	680	150	485	107	1380x1075x990	325 / 325 / 340	40
AQT200	909	200	740	163	1308x1030x1270	465 / 465 / 340	50
AQT250	1135	250	840	185	1705x1085x1255	458 / 458 / 340	70
AQT300	1364	300	1045	230	1530x1252x1355	508 / 508 / 340	81
AQT350	1590	350	1220	268	1705x1315x1355	508 / 508 / 340	115
AQT400	1818	400	1510	332	1380x1380x1660	660 / 660 / 340	125
AQT500	2272	500	1784	392	1990x1380x1456	558 / 558 / 340	150
AQT600	2726	600	2239	492	1990x1380x1660	660 / 660 / 340	168
AQT700	3185	700	2542	560	2600x1380x1510	585 / 585 / 340	175
AQT800	3636	800	2990	657	2600x1380x1660	660 / 660 / 340	220
AQT1000	4535	1000	3773	830	2600x1684x1660	660 / 660 / 340	245
AQT1200	5440	1200	4478	986	2600x1988x1660	660 / 660 / 340	260

* Height already includes for Raised Float Valve Chamber (340mm)

** S1 = Tank bottom to joining flange, S2 = Joining flange to lid, RBVC = Height of Raised Float Valve Chamber