

### TWIN TANK Clack Valve

### RESIDENTIAL & LIGHT COMMERCIAL AUTOMATIC ORGANIC CONDITIONERS FOR POTABLE & PROCESS WATERS

#### PROCESS

Degenerating vegetation releases tannins and organics into surface water, spear-points and bore water supplies causing colour, taste and odour problems. Organic Conditioners use a special organic scavenger resin that attracts the tannins and organics from the water. When the resin becomes laden with contaminants the conditioner 'regenerates' using a salt water solution and dispels the contaminants to waste and refreshes the resin sites. The conditioner comprises a large capacity salt storage tank and tall resin tank for increased void space for efficient backwash and brining. All functions are fully automatic. A periodic top-up of salt into the brine tank is required. If the raw water is for potable use and/or heavily contaminated, an automatic coal-based carbon filter may be required to remove taste and residual tannins and organics (see NOTE below for pretreatment requirements)

#### VALVE & CONTROL

Automatic 3 cycle valve with backwash, rinse and service cycles. The control is Microprocessor Demand featuring an in-built water meter that monitors actual water flow and usage patterns and initiates a regeneration when the programmed water volume has been met. The control uses safe 12v power from the wall mount transformer supplied.



Model WTWSOC12 shown

MODEL	TANK SIZE DIA x HEIGHT	LITRES RESIN	MAX* FLOW LPM	IN/OUT	DRAIN
<b>WTWSOC9</b>	229mm x 1220mm	28L	14.0	25mm	12mm
<b>WTWSOC10</b>	254mm x 1370mm	42L	21.0	25mm	12mm
<b>WTWSOC12</b>	305mm x 1320mm	56L	28.0	25mm	12mm
<b>WTWSOC14</b>	355mm x 1650mm	100L	50.0	25mm	12mm
<b>WTWSOC16</b>	405mm x 1650mm	125L	62.5	40mm	25mm
<b>WTWSOC21</b>	530mm x 1830mm	175L	87.5	40mm	25mm
<b>WTWSOC24</b>	610mm x 1830mm	300L	150.0	40mm	25mm

#### NOTE:

(1) IF ACIDS ARE PRESENT IN THE WATER THE CONDITIONER COULD LOWER PH AND REQUIRE CORRECTION WITH A NEUTRALISING FILTER.

(2) IF IRON IS PRESENT AN IRON REMOVAL FILTER IS RECOMMENDED BEFORE THE CONDITIONER.

(3) A SOFTENER SHOULD BE INSTALLED IF HARDNESS IS ABOVE 68mg/l.

Minimum inlet pressure 280 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use a NHWB (no hard water bypass valve) to provide back-pressure when conditioner is regenerating. Refer Dowdens for pricing. Flow based on \*Intermittent usage.

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### TWIN TANK Autotrol Valve

### RESIDENTIAL & LIGHT COMMERCIAL AUTOMATIC ORGANIC CONDITIONERS FOR POTABLE & PROCESS WATERS

#### PROCESS

Degenerating vegetation releases tannins and organics into surface water, spear-points and bore water supplies causing colour, taste and odour problems. Organic Conditioners use a special A860S organic scavenger resin that attracts the tannins and organics from the water. When the resin becomes laden with contaminants the conditioner 'regenerates' using a salt water solution and dispels the contaminants to waste and refreshes the resin sites. The conditioner comprises a large capacity salt storage tank and tall resin tank for increased void space for efficient backwash and brining. All functions are fully automatic. A periodic top-up of salt into the brine tank is required. If the raw water is for potable use and/or heavily contaminated, an automatic coal-based carbon filter may be required to remove taste and residual tannins and organics. (see NOTE below for pretreatment requirements)

#### VALVE & CONTROL

Automatic 3 cycle valve with backwash, rinse and service cycles. The control is Microprocessor Demand featuring an in-built water meter that monitors actual water flow and usage patterns and initiates a regeneration when the programmed water volume has been met. The control uses safe 12v power from the wall mount transformer supplied.



MODEL	TANK SIZE DIA x HEIGHT	LITRES RESIN	MAX* FLOW LPM	IN/OUT	DRAIN
<b>WTWSOC9M</b>	229mm x 1220mm	28L	14.0	25mm	12mm
<b>WTWSOC10M</b>	254mm x 1370mm	42L	21.0	25mm	12mm
<b>WTWSOC12M</b>	305mm x 1320mm	56L	28.0	25mm	12mm
<b>WTWSOC14M</b>	355mm x 1650mm	100L	50.0	25mm	12mm
<b>WTWSOC16M</b>	405mm x 1650mm	125L	62.5	40mm	25mm
<b>WTWSOC21M</b>	530mm x 1830mm	175L	87.5	40mm	25mm
<b>WTWSOC24M</b>	610mm x 1830mm	300L	150.0	40mm	25mm

**NOTE:**

(1) IF ACIDS ARE PRESENT IN THE WATER THE CONDITIONER COULD LOWER PH AND REQUIRE CORRECTION WITH A NEUTRALISING FILTER.

(2) IF IRON IS PRESENT AN IRON REMOVAL FILTER IS RECOMMENDED BEFORE THE CONDITIONER.

(3) A SOFTENER SHOULD BE INSTALLED IF HARDNESS IS ABOVE 68mg/L.

Minimum inlet pressure 280 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use a switch kit & solenoid valve to provide back-pressure when conditioner is regenerating. Refer Dowdens for pricing. Flow based on \*Intermittent usage.

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