



Carbon Filters

Clack Valves

Purion

Product Guide

Head Office

9-15 Industrial St
Mackay QLD 4740
Ph: +61 7 4969 4949
Email: info@dowdens.com.au

Brisbane Office

45 Fulcrum Street
Richlands QLD 4077
Ph: +61 7 3828 7000
Email: brisbane@dowdens.com.au

Rockhampton Office

4/415 Yaamba Road
Park Avenue QLD 4701
Ph: +61 7 4923 6969
Email: info@dowdens.com.au

Proserpine Office

2 Mann St
Proserpine QLD 4800
Ph: +61 7 4969 4940
Email: info@dowdens.com.au

Contents

Carbon Filters - Clack Valves	1
C&I SERIES - 1.5" Clack Valves	1
C&I SERIES - 2.0" Clack Valves	2
C&I SERIES - 2.5H" Clack Valves	3
Residential & Light Commercial	4
Carbon Filters - Manual Valves	5
Residential	5

Please note: Images in this product guide may vary and are a representation only. If you have any questions, please contact us for further information.

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Carbon Filters - Clack Valves

For reduction of chlorine, chloramine, taste & odour, organics & organically based herbicides & pesticides



C&I SERIES - 1.5" Clack Valves

CARBON MEDIA OPTIONS

GC1200: A high quality general purpose coconut carbon that works by adsorption of small molecular weight organics from potable water and wastewater. Ideal for dechlorination, de-ozonation and pesticide removal.

GC1200N: A very high-activity and high-performance coconut carbon. The carbon works by adsorption and BAC*. Highly pre-washed to reduce pH. Ideal for beverage plants, aquaculture and pre-filters for renal dialysis water treatment systems.

GA1000N: A high quality general purpose coal-based carbon that works via adsorption and BAC*. Pre-washed to adjust pH, ash and floaters. Best suited for the removal/reduction of higher molecular weight organics e.g. tannins, vegetation. Ideal for potable water filtration and wastewater.

Note: *BAC is biological activity on the carbon surface that further enhances carbon activity.



WS1.5 VALVE

Backwash Options:

- Time clock
- Pressure Differential



OPTIONAL No Hard Water Bypass Valve (NHWB) to prevent unfiltered water to service during backwash.

Note: For NHWB option add suffix 'NHWB' to filter model.

Filter Model	Carbon Type	Valve Model	Filter Tank (dxh) inches	In/Out mm	¹ Service Flow lpm	Backwash Flow lpm	² Installed Area Dimensions (Width x Depth x Height) cm
WTWFC16	Coconut	WS1.5	16 x 65	40	26.5	53.0	46 x 51 x 270
WTWFC16-O	Coal	WS1.5	16 x 65	40	26.5	53.0	46 x 51 x 270
WTWFC21	Coconut	WS1.5	21 x 62	40	46.0	92.0	58 x 64 x 262
WTWFC21-O	Coal	WS1.5	21 x 62	40	46.0	92.0	58 x 64 x 262
WTWFC24	Coconut	WS1.5	24 x 72	40	60.0	120.0	66 x 72 x 287
WTWFC24-O	Coal	WS1.5	24 x 72	40	60.0	120.0	66 x 72 x 287

FRP Filter Tanks



Fibre Reinforced Plastic (FRP) Filter Vessels are used to hold the carbon filtration media.

Alternating Valve



OPTIONAL Motorised Alternating Valve (MAV) option for clean water backwash or twin alternating filter configuration.

Motorised Alternating Valve



OPTIONAL Differential Pressure Switch Assembly for pressure differential backwashing.

¹Flow rates are a guide only based on continuous flow. Higher flow rates may be achieved with intermittent flow. Lower flow rates may be required for chloramine and high organics reduction. ²Height includes clearance required above filter for media loading and servicing. Minimum recommended backwash pressure 420 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge e.g. tank filling, use NHWB option to provide back-pressure when filter is backwashing. Refer to Dowdens for more information.

Carbon Filters - Clack Valves

For reduction of chlorine, chloramine, taste & odour, organics & organically based herbicides & pesticides



C&I SERIES - 2.0" Clack Valves

CARBON MEDIA OPTIONS

GC1200: A high quality general purpose coconut carbon that works by adsorption of small molecular weight organics from potable water and wastewater. Ideal for dechlorination, de-ozonation and pesticide removal.

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1000N: A high quality general purpose coal-based carbon that works via adsorption and BAC*. Pre-washed to adjust pH, ash and floaters. Best suited for the removal/reduction of higher molecular weight organics e.g. tannins, vegetation. Ideal for potable water filtration and wastewater.

Note: *BAC is biological activity on the carbon surface that further enhances carbon activity.



WS2 Valve Options: Single or Dual Filters • Top or Side-mount Valve • Time clock Backwash • Pressure Differential Backwash • Water Meter Backwash • Filtered Water Backwash • No Unfiltered Water Bypass



OPTIONAL No Hard Water Bypass Valve (NHWB) to prevent unfiltered water to service during backwash.

Note: For NHWB option add suffix 'NHWB' to filter model.

Filter Model	Carbon Type	Valve Model	Filter Tank (dxh) inches	In/Out mm	¹ Service Flow lpm	Backwash Flow lpm	² Installed Dimensions (Width x Depth x Height) cm
WTWFC30	COCONUT	WS2	30 x 72	50	95.0	190.0	81 X 86 X 295
WTWFC30-O	COAL	WS2	30 x 72	50	95.0	190.0	81 X 86 X 295
WTWFC36	COCONUT	WS2	36 x 72	50	135.0	270.0	97 X 102 X 295
WTWFC36-O	COAL	WS2	36 x 72	50	135.0	270.0	97 X 102 X 295

FRP Filter Tanks



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Motorised Alternating Valve



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Differential Pressure Switch Assembly



OPTIONAL Differential Pressure Switch Assembly for pressure differential backwashing.

¹Flow rates are a guide only based on continuous flow. Higher flow rates may be achieved with intermittent flow. Lower flow rates may be required for chloramine and high organics reduction. ²Height includes clearance required above filter for media loading and servicing. Minimum recommended backwash pressure 420 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge e.g. tank filling, use NHWB option to provide back-pressure when filter is backwashing. Refer to Dowdens for more information

Carbon Filters - Clack Valves

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C&I SERIES - 2.5H" Clack Valves

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Note: *BAC is biological activity on the carbon surface that further enhances carbon activity.



WS2H Valve Options: Single, Dual, Triple or Quad Filters • Top or Side-mount Valve • Time clock Backwash • Pressure Differential Backwash • Water Meter Backwash • Filtered Water Backwash • No Unfiltered Water Bypass



OPTIONAL No Hard Water Bypass Valve (NHWB) to prevent unfiltered water to service during backwash.

Note: For NHWB option add suffix 'NHWB' to filter model

Filter Model	Carbon Type	Filter Tank (dxh) inches	In/Out mm	¹ Service Flow lpm	Backwash Flow lpm	² Installed Dimensions (Width x Depth x Height) cm
WTWFC42	COCONUT	42 x 72	50	183.0	366.0	115 x 127 x 350
WTWFC42-O	COAL	42 x 72	50	183.0	366.0	115 x 127 x 350
WTWFC48	COCONUT	48 x 72	50	239.0	478.0	130 x 142 x 350
WTWFC48-O	COAL	48 x 72	50	239.0	478.0	130 x 142 x 350

FRP Filter Tanks



Fibre Reinforced Plastic (FRP) Filter Vessels are used to hold the carbon filtration media.

Motorised Alternating Valve



OPTIONAL Motorised Alternating Valve (MAV) option for clean water backwash or twin alternating filter configuration.

Differential Pressure Switch Assembly



OPTIONAL Differential Pressure Switch Assembly for pressure differential backwashing.

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Carbon Filters - Clack Valves

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Residential & Light Commercial

AUTOMATIC CARBON MEDIA FILTERS FOR POTABLE & PROCESS WATERS - FEATURING CLACK VALVES & CONTROLS

CARBON MEDIA OPTIONS

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AUTOMATIC BACKWASH

3-cycle valve with a 7 day timer control that backwash, purge, rinse and return to service at selected intervals. Uses safe 12volt power from the wall-mountable transformer supplied.

BYPASS VALVE: All models include a filter bypass valve to facilitate servicing.

Clack WS1EI Filter Valve with Bypass



Highly Active Carbon Media



NHWP Valve



NHWP valves prevent untreated water going to service during backwash. Supplied with models with NHWP suffix.



Fibre Reinforced Plastic (FRP) Filter Vessels are used to hold the carbon filtration media.

Filter Model	Filter Vessel size (inches)	In/Out (mm)	Drain (mm)	¹ Max Flow lpm	² Backwash Flow - lpm	³ Install Area w x d x h (cm)
COCONUT						
WTWFC09	9 x 48	25	20	18.0	16.0	30 x 55 x 145
WTWFC09-NHWP	9 x 48	25	20	18.0	16.0	30 x 55 x 145
WTWFC10	10 X 54	25	20	22.0	18.0	30 x 55 x 160
WTWFC10-NHWP	10 X 54	25	20	22.0	18.0	30 x 55 x 160
WTWFC12	12 X 52	25	20	30.0	25.0	32 x 55 x 155
WTWFC12-NHWP	12 X 52	25	20	30.0	15.0	32 x 55 x 155
WTWFC14	14 X 65	32	20	42.0	41.0	37 x 55 x 188
WTWFC14-NHWP	14 X 65	32	20	42.0	41.0	37 x 55 x 188
COAL						
WTWFC09-O	9 x 48	25	20	18.0	16.0	30 x 55 x 145
WTWFC09-O-NHWP	9 x 48	25	20	18.0	16.0	30 x 55 x 145
WTWFC10-O	10 X 54	25	20	22.0	18.0	30 x 55 x 160
WTWFC10-O-NHWP	10 X 54	25	20	22.0	18.0	30 x 55 x 160
WTWFC12-O	12 X 52	25	20	30.0	25.0	32 x 55 x 155
WTWFC12-O-NHWP	12 X 52	25	20	30.0	15.0	32 x 55 x 155
WTWFC14-O	14 X 65	32	20	42.0	41.0	37 x 55 x 188
WTWFC14-O-NHWP	14 X 65	32	20	42.0	41.0	37 x 55 x 188

¹ Flow rates are a guide only based on dechlorination using GC1200 carbon. ² Lower flow rates will be required for chloramines and heavy organics. Refer Dowdens for sizing.

³ If possible allow additional 500mm minimum height clearance to facilitate servicing. Recommended backwash pressure 280 kpa. Max. inlet pressure 600 kpa with no water hammer. For open discharge e.g. tank filling, use NHWP model to provide back-pressure when filter is backwashing. Refer to Dowdens for more information.

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Residential

MANUAL VALVE RESIDENTIAL CARBON FILTERS FOR POTABLE & PROCESS WATERS

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Manual Valve



Manual Backwash

Economical filters with backwash flow control and ball valve. Turn the rotary valve handle to backwash the filter. Ideal where electricity is not available or for filtering water where minimum backwash waste is required e.g. tank water.

Highly Active Carbon Media



Filter Model	Filter Tank (inches)	In/Out (mm)	Dia (mm)	¹ Max Flow lpm	Backwash Flow - lpm	² Install Area w x d x h (cm)
COCONUT						
WTWFC07M	7 X 35	20	20	15.0	14.0	20 x 25 x 113
WTWFC09M	9 X 48	20	20	18.0	16.0	25 x 27 x 145
WTWFC10M	10 X 54	20	20	22.0	18.0	27 x 29 x 160
WTWFC12M	12 X 52	20	20	30.0	25.0	32 x 31 x 155
COAL						
WTWFC07M-O	7 X 35	25	20	15.0	14.0	20 x 25 x 113
WTWFC09M-O	9 X 48	25	20	18.0	16.0	25 x 27 x 145
WTWFC10M-O	10 X 54	25	20	22.0	18.0	27 x 29 x 160
WTWFC12M-O	12 X 52	25	20	30.0	25.0	32 x 31 x 155

¹Flow rates are a guide only based on dechlorination using GC1200 carbon. Lower flow rates will be required for chloramines and heavy organics. Refer Dowdens for sizing. Minimum recommended backwash pressure 280 kpa. Max. inlet pressure 600 kpa with no water hammer. ² If possible allow additional 500mm minimum height clearance to facilitate servicing. Refer to Dowdens for more information.

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