CHADSON

COMMERCIAL FILTERS

AUSTRALIAN MADE

FLUIDRA
COMMERCIAL **POOL** SOLUTIONS

CHADSON

CPC | Chadson Pre-Coat Filters

FOR AUSTRALIA'S HARSH CONDITIONS

CPC filters are uniquely manufactured from FRP resin systems specifically selected for Australia's harsh conditions. The CPC Series offers all the functional benefits expected of a modern Regenerative Media Filter (RMF). Apart from reaching a far higher degree of clarification much quicker than other common forms of filtration, the CPC series also provides many environmental benefits.

With its unique particle selectivity, CPC filters can provide protection against modern chlorine resistant pathogens and organisms relating to swimmers' itch. The high process efficiency of CPC series will simplify pool water chemistry and reduce reliance upon harsh and objectional chemicals. Chemically complicated coagulants are not required for CPC filters.

CPC filters are extremely compact. Apart from taking up far less plant space, they can also operate with significantly smaller balance tanks and backwash tanks. All these factors help to contain construction costs.

CPC Filters are proudly designed & manufactured in Australia. Locally made filters provide many tangible benefits for pool Owners, all levels of government, the aquatics industry and potentially all Australians. Apart from anything else, buying Australian-Made makes good economic sense.

KEY FEATURES AT A GLANCE

- Wide range of filter models to suit every conceivable pool size.
- Suitable for fresh or saltwater swimming pools.
- Can be comfortably operated using Diatomaceous Earth and Perlite.
- Simple operation without the need for sensors, switches, computer control, and an air compressor.
- Does not required any sophisticated automatic valves with complicated operating steps
- Non-corrosive construction materials. No need to equipotential bond the filter vessel.
- Large diameter, rigid candle cores - generously spaced to mitigate bridging and clogging.
- Easy to service and replace "long life" Polypropylene filter socks.
- Simple and easy to understand "single pass" precoating. Does not require the time and the extra plant space necessary for close loop precoating.
- A dustless Wet-Vac precoating system that does not require the filter to be drained prior to precoating.
- Simple to clean by conventional "reverse-flow" backwashing, with the option of a gravity drain-down.
- The Media Release Accelerator (MRA) is a passive inclusion, which enhances cake release, without the fear of over-pressurizing the filter vessel.
- The Lift'n'Swing davit provides quick access inside the filter – no need for a monorail & chain blocks.
- Standard fitments include a vacuum breaker, auto air release, twin gauge panel, sight glass.

TECHNICAL DATA

FLUIDRA AUSTRALIA CODE		60700850	60700860	60700870	60701000	60701010	60701020
		CPC 850-12	CPC 850-16	CPC 850-18	CPC 1000-18	CPC 1000-24	CPC 1000-26
		PHYSICAL DATA					
FILTER SURFACE AREA	M2	12	16	18	18	24	26
VESSEL DIAMETER (NOMINAL)	MM	850			1000		
VESSEL HEIGHT	MM	1595	1875	2015	1655	1935	2075
MIN. CEILING HEIGHT	MM	2070	2630	2900	2100	2660	2975
CONNECTION SIZE	MM	100	100	100	150	150	150
PERLITE	KG	5.3	6.8	7.5	7.5	10.0	11.0
DIATOMATEOUS EARTH (DE)	KG	7.0	9.0	10.0	10.0	13.5	14.5
SHIPPING WEIGHT	KG	300	300	300	360	360	360
OPERATIONAL WEIGHT	KG	1300	1300	1300	1780	1780	1780
		OPERATIONAL DATA					
FLOW RATE @ 2.5M3/H/M2	M2	30.00	40.00	45.00	45.00	60.00	65.00
FLOW RATE @ 3.5M3/H/M2	M3	42.00	56.00	63.00	63.00	84.00	91.00
FLOW RATE @ 4.5M3/H/M2	M3	54.00	72.00	81.00	81.00	108.00	117.00
BACKWASH RATE	LT/S	16	22	24.0	24.0	32.0	36.0
MIN. WASH WATER	M3	1.8	1.8	1.8	2.7	2.7	2.7
MAX OPERATING PRESSURE	KPA	200	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350	350

FLUIDRA AUSTRALIA CODE		60701210	60701200	60701220	60701500	60701510	60701520
		CPC 1200-30	CPC 1200-35	CPC 1200-45	CPC 1500-45	CPC 1500-60	CPC 1500-65
		PHYSICAL DATA					
FILTER SURFACE AREA	M2	30	35	45	45	60	65
VESSEL DIAMETER (NOMINAL)	MM	1200			1500		
VESSEL HEIGHT	MM	1740	2020	2160	1955	2235	2375
MIN. CEILING HEIGHT	MM	2185	2650	3025	2300	2680	3065
CONNECTION SIZE	MM	150/200	150/200	150/200	200/250	200/250	200/250
PERLITE	KG	12.8	16.5	18.0	18.0	24.8	27.5
DIATOMATEOUS EARTH (DE)	KG	17	22	24.5	24.5	33	35
SHIPPING WEIGHT	KG	650	650	650	945	945	945
OPERATIONAL WEIGHT	KG	2370	2370	2370	4515	4515	4515
		OPERATIONAL DATA					
FLOW RATE @ 2.5M3/H/M2	M2	75.00	87.50	112.50	112.50	150.00	162.50
FLOW RATE @ 3.5M3/H/M2	M3	105.00	122.50	157.50	157.50	210.00	227.50
FLOW RATE @ 4.5M3/H/M2	M3	135.00	157.50	202.50	202.50	270.00	292.50
BACKWASH RATE	LT/S	40	54.0	55.0	59.0	81.0	88.0
MIN. WASH WATER	M3	3.6	3.6	3.6	4.2	4.2	4.2
MAX OPERATING PRESSURE	KPA	200	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350	350

FLUIDRA AUSTRALIA CODE		60701700	60701710	60701720	60702020	60702000	60702010
		CPC 1700-60	CPC 1700-79	CPC 1700-85	CPC 2000-80	CPC 2000-112	CPC 2000-123
		PHYSICAL DATA					
FILTER SURFACE AREA	M2	60	79	85	80	112	123
VESSEL DIAMETER (NOMINAL)	MM	1700			2000		
VESSEL HEIGHT	MM	2110	2390	2530	2265	2545	2685
MIN. CEILING HEIGHT	MM	2600	2850	3040	2750	3010	3280
CONNECTION SIZE	MM	250	250	250	250	250	250
PERLITE	KG	24.8	32.3	35.0	33.0	46.0	51.0
DIATOMATEOUS EARTH (DE)	KG	33	43	47	44	61.5	67
SHIPPING WEIGHT	KG	1120	1120	1120	1665	1665	1665
OPERATIONAL WEIGHT	KG	5780	5780	5780	7780	7780	7780
		OPERATIONAL DATA					
FLOW RATE @ 2.5M3/H/M2	M2	150.00	197.50	212.50	200.00	280.00	307.50
FLOW RATE @ 3.5M3/H/M2	M3	210.00	276.50	297.50	280.00	392.00	430.50
FLOW RATE @ 4.5M3/H/M2	M3	270.00	355.50	382.50	360.00	504.00	553.50
BACKWASH RATE	LT/S	81	107.0	116.0	108.0	152.0	167.0
MIN. WASH WATER	M3	4.5	4.5	4.5	5.6	5.6	5.6
MAX OPERATING PRESSURE	KPA	200	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350	350

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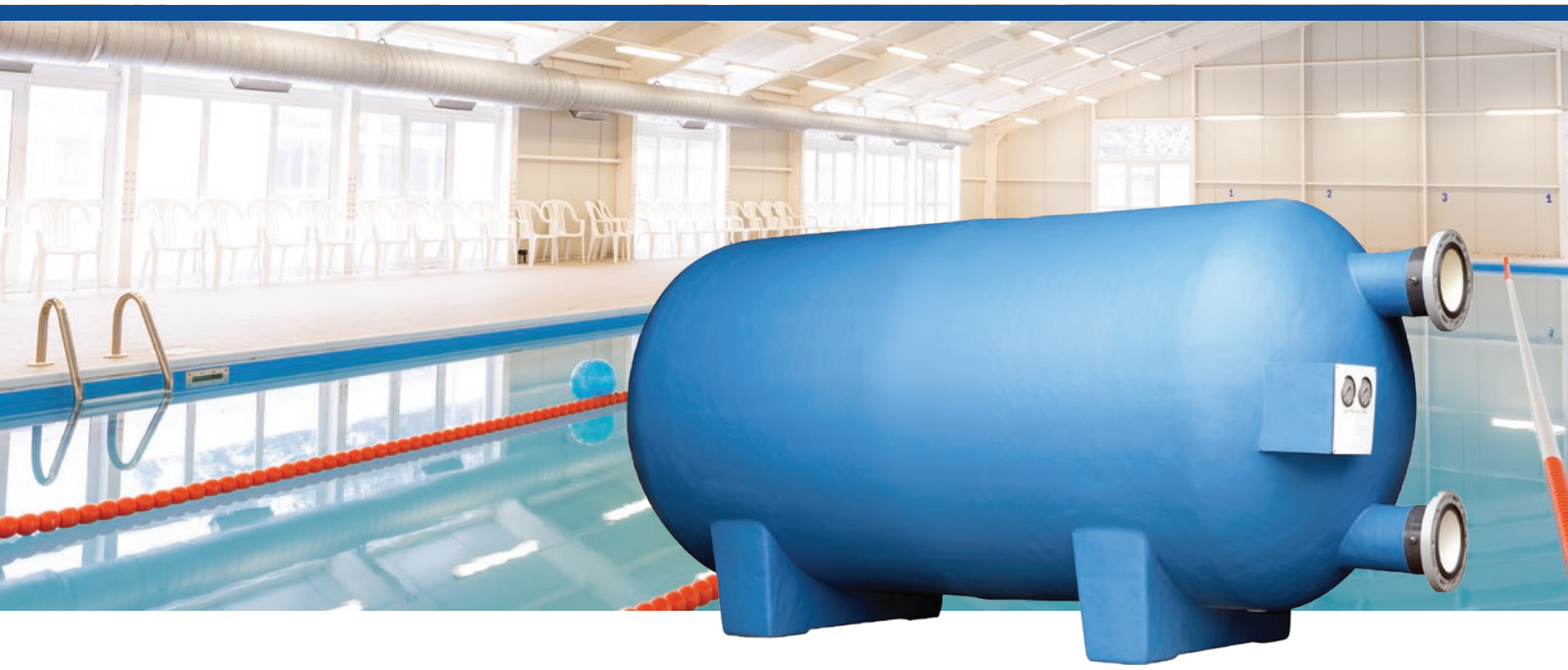

Chadson Granular Filters

NOT ALL HORIZONTAL FILTERS ARE CREATED EQUAL

Whilst most horizontal filters may seem to look the same, their cost of ownership will vary substantially according to a number of critical design issues. Such issues include process efficiency, the method of manufacture, and the choice of construction materials. Given a commercial pool filter is required to satisfy a very critical (public health) need, its initial purchase should not just be made on the basis of lowest apparant cost.

As many astute & discerning pool professionals have identified that (over a period of more than 30 years) CHADSON GRANULAR FILTERS will provide unique process benefits & undisputed value throughout its very considerable design life. These attributes are best reflected by the ability of CHADSON filters to provide longer filter runs (with less backwashing) and far less frequent replacement of the filtering media. In combination with a robust Australian-made FRP pressure vessel, many of these unique benefits can be attributed to the patented technology that is used within a CHADSON filter.

CHADSON's patented FloModuLata™ technology uniquely splits and distributes the water streams within the filter, during its filter & backwash cleaning process. By providing full lateral coverage and parallel (up & down) water streams, this unique processing, provides unparalleled efficiences. These process efficiencies are widely known and accepted to provide longer filter runs, less frequent backwashing, lower wash water consumption, lower energy costs, and less frequent media and lateral replacements.

KEY FEATURES AT A GLANCE

- Designed & manufactured in Australia, using locally available resins systems, which are especially formulated for Australia's harsh climatic conditions.
- Chadson filters may be installed indoors or outdoors. Their non-corrosive construction materials are equally suitable for use with either fresh water or seawater.
- Heavy duty, contact-moulded FRP pressure vessels; free of all the service issues that are occasionally associated with filament wound tanks. If a tank leak does occur, filament wound tanks are widely considered to be non-repairable.
- Straight-through internal pipe headers (dn200) resulting in minimum head loss, low line- velocity, and reduced energy costs.
- Multiple and precisely calibrated Soiled Water (SW) distribution nozzles which provide even flow, over ALL of the available filter area, not parts thereof.
- Full-coverage & extensive underdrain system, using dn25 slotted laterals that are injection moulded from high impact, engineering plastics.
- Full-size, internal-opening access hatch(s) providing convenient access, without the need to remove any face plumbing.
- 100% of all filter production is hydrostatically pressure tested and certified as genuine pressure vessels.
- Appropriate fittings & instrumentation (twin pressure gauges, Kinetic Air Vent/Vacuum breaker, screened drain cock, etc.,) supplied as standard fitments.

OTHER BENEFITS & OPTIONS

- Free technical support and engineering advice that will guarantee a predictable result each and every time.
- Every filter is supplied with comprehensive installation & operating Instructions that are designed to make your job easier. Our instructions contain valuable information, which is especially designed for commercial pools.
- Being Australian-made, both standard and custom-made product can be readily supplied within acceptable delivery times.
- Standard product details may be varied to include the supply of additional access hatches, different connection details, air-scouring, pulse backwashing, lifting lugs, high pressure ratings, face plumbing, manual & automatic backwashing valving.

FINAL WORD

If you are regularly backwashing your filter to maintain a flat and efficient sand bed, you are wasting valuable pool water and chemicals. If you need to regularly replace your filter media & laterals (every 5 years or less), your filter is not backwashing efficiently. With many CHADSON filters continuing to provide valuable service after 25 years of continuous service, the product's unique capability and its design life are matters of fact. The design life of a CHADSON filter is not reliant upon the interpolation of in-house cyclic pressure test; it's based on proven and extensive case history.

Unlike the many filter options that are available to you, CHADSON filters are tried & proven with the capability to provide very favourable life cycle costs. Good design is not about who can provide the lowest apparent purchase cost; it's more about satisfying an intended duty, with products that will provide process efficiencies, reliable performance, and predictable whole of life costs.

If issues do occur during the life of CHADSON product, it's important to note that we are here to support you. Not only will you feel good in supporting an accredited Australian made product, you will be rewarded with the performance, the low cost of ownership and the service that is often seems elusive with cheaper, imported product.

If you are considering a filter replacement, designing a new pool, or are just plain unhappy with the performance of your existing system, contact us today.

TECHNICAL DATA

FLUIDRA AUSTRALIA CODE		60001200CE	60001500	60001800	60002050	60002250	60002450
		MHS 1200	MHS 1500	MHS 1800G2	MHS 2000G2	MHS 2200G2	MHS 2400G2
		PHYSICAL DATA					
FILTER SURFACE AREA	M2	1.20	1.50	1.80	2.00	2.20	2.40
VESSEL DIAMETER	MM	940			1160		
VESSEL LENGTH	MM	1825		2020	2182	2382	2540
FILTER HEIGHT (INC. AIR RELEASE)	MM	1435	1435	1435	1660	1660	1660
FILTER LENGTH (INC. CONNECTIONS)	MM	1935		2250	2330	2530	2690
CONNECTION SIZE	MM	100 (4")			150 (6")		
SAND (0.8MM-2.0MM)	KG	800	1000	1475	1500	1600	1750
GRAVEL (3MM-6MM)	KG	200	250	300	300	325	350
SHIPPING WEIGHT	KG	120	135	145	155	165	175
OPERATIONAL WEIGHT	KG	2000	2450	2900	3000	3200	3400
		OPERATIONAL DATA					
FLOW RATE @ 25M3/H/M2	M2	30.0	37.5	45.0	50.0	55.0	60.0
FLOW RATE @ 36M3/H/M3	M3	43.2	54.0	64.8	72.0	79.2	86.4
FLOW RATE @ 42M3/H/M4	M3	50.4	63.0	75.6	84.0	92.4	100.8
MAX OPERATING PRESSURE	KPA	200	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350	350

FLUIDRA AUSTRALIA CODE		60003050	60003550	60003750	60004000	60004250	60004500
		MHS 3000G2	MHS 3500G2	MHS 3750G2	MHS 4000	MHS 4250	MHS 4500
		PHYSICAL DATA					
FILTER SURFACE AREA	M2	3.00	3.50	3.75	4.00	4.25	4.50
VESSEL DIAMETER	MM	1200			1500		
VESSEL LENGTH	MM	2700	3100	3300	3000	3170	3340
FILTER HEIGHT (INC. AIR RELEASE)	MM	1710	1710	1710	1970	1970	1970
FILTER LENGTH (INC. CONNECTIONS)	MM	2850	3250	3450	3200	3370	3540
CONNECTION SIZE	MM	150 (6")			200 (8")		
SAND (0.8MM-2.0MM)	KG	3000	3525	3775	3650	3900	4150
GRAVEL (3MM-6MM)	KG	425	525	625	1000	1100	1150
SHIPPING WEIGHT	KG	230	250	300	350	360	380
OPERATIONAL WEIGHT	KG	5200	5800	6750	8260	8400	8660
		OPERATIONAL DATA					
FLOW RATE @ 25M3/H/M2	M2	75.0	87.5	93.8	100.0	106.3	112.5
FLOW RATE @ 36M3/H/M3	M3	108.0	126.0	135.0	144.0	153.0	162.0
FLOW RATE @ 42M3/H/M4	M3	126.0	147.0	157.5	168.0	178.5	189.0
MAX OPERATING PRESSURE	KPA	200	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350	350

CHADSON GRANULAR FILTERS TECHNICAL DATA CONTINUED

FLUIDRA AUSTRALIA CODE		60005000	60005550	60006000	60006250	60006500
		MHS 5000	MHS 5500	MHS 6000	MHS 6250	MHS 6500
		PHYSICAL DATA				
FILTER SURFACE AREA	M2	5.00	5.50	6.00	6.25	6.50
VESSEL DIAMETER	MM	2000		2000		
VESSEL LENGTH	MM	3000	3250	3500	3625	3750
FILTER HEIGHT (INC. AIR RELEASE)	MM	2470	2470	2470	2470	2470
FILTER LENGTH (INC. CONNECTIONS)	MM	3225	3475	3725	3850	3975
CONNECTION SIZE	MM	200 (8")		200 (8")		
SAND (0.8MM-2.0MM)	KG	4950	5400	5900	6150	6400
GRAVEL (3MM-6MM)	KG	1550	1750	1950	2050	2150
SHIPPING WEIGHT	KG	400	425	450	470	490
OPERATIONAL WEIGHT	KG	12600	13900	15200	15800	16500
		OPERATIONAL DATA				
FLOW RATE @ 25M3/H/M2	M2	125.0	137.5	150.0	156.3	162.5
FLOW RATE @ 36M3/H/M3	M3	180.0	198.0	216.0	225.0	234.0
FLOW RATE @ 42M3/H/M4	M3	210.0	231.0	252.0	262.5	273.0
MAX OPERATING PRESSURE	KPA	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350

FLUIDRA AUSTRALIA CODE		60007000	60007250	60008000
		MHS 7000	MHS 7250	MHS 8000
		PHYSICAL DATA		
FILTER SURFACE AREA	M2	7.00	7.25	8.00
VESSEL DIAMETER	MM	2000		
VESSEL LENGTH	MM	4000	4125	4350
FILTER HEIGHT (INC. AIR RELEASE)	MM	2470	2470	2470
FILTER LENGTH (INC. CONNECTIONS)	MM	4225	4350	4575
CONNECTION SIZE	MM	200 (8")		
SAND (0.8MM-2.0MM)	KG	6900	7100	
GRAVEL (3MM-6MM)	KG	2300	2400	
SHIPPING WEIGHT	KG	500	540	
OPERATIONAL WEIGHT	KG	17600	18300	
		OPERATIONAL DATA		
FLOW RATE @ 25M3/H/M2	M2	175.0	181.3	200.0
FLOW RATE @ 36M3/H/M3	M3	252.0	261.0	288.0
FLOW RATE @ 42M3/H/M4	M3	294.0	304.5	336.0
MAX OPERATING PRESSURE	KPA	200	200	200
TEST PRESSURE	KPA	350	350	350

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ATLAS Filters

RECOGNISED FOR THE CONTROL OF CRYPTOSPORIDIUM & GUARDIA IN NUMEROUS CODES OF PRACTICE

FAST AND EFFECTIVE PERFORMANCE

It's not just about clear water anymore; swimming pool water needs to be totally healthy. As recognized in numerous standards & engineering references, Precoat filtration will provide positive protection against modern chlorine resistant pathogens like cryptosporidium & guardia. What's more, with it's patented regeneration cycle, Atlas® filters will provide long and effective filter cycles. When you take into consideration the reduced wash water consumption, the reduction of plant space, and the elimination of chemically complicated flocculants, it's easy to see why there are a growing number of commercial pools using Atlas® Precoat filters.

Atlas® filters are internationally known & recognized. They have been used on some of the largest and most prestigious swimming pools around the world. They are also supplied with such coveted awards as a SABS Design Award, the GQM Quality Award and the 9th International Technology Trophy.

HOW IT WORKS

The various PCT Models in the Atlas® filter range are differentiated by the amount of filter area that is provided within a given tank diameter. When the prescribed amount of filter media is added to the incoming water flow, it forms a thin coating on the outside of the cloth covered filter elements (candles). This "filter cake" forms a microscopic sieve that filters far finer than the cloth covering of the filter candles. As the Precoat filter process does its job of collecting pollutants, collected matter will progressively block the filter cake.

Atlas® filters are not conventional static cake type filters; they have a unique regeneration cycle that optimizes the use of a replaceable filter media. Regeneration occurs automatically. Each time the filter cycle is interrupted, the trapped dirt and filter media will automatically settle to the bottom of the filter tank. When the filter is re-started, the incoming water flow will automatically intermix and redistribute the selected filter media back on to the filter candles. This restores the porosity of the filter cake and returns the filter back to its maximum clean water flow.

The Atlas® Regenerative Precoat filters provides the pool Operator with many unique benefits - low wash water consumption, extremely compact filter vessels, & Ultra Fine Filtration (UFF) that will physically remove microscopic bacteria, chlorine resistant pathogens, & other solids.

TECHNICAL DATA

FLUIDRA AUSTRALIA CODE		60500080	60500100	60500150	60500200	60500250	60500300
		PCT 75	PCT 100	PCT 150	PCT 200	PCT 250	PCT 300
		PHYSICAL DATA					
FILTER SURFACE AREA	M2	7.5	10	15	20	25	30
VESSEL DIAMETER	MM	765	765	950	1155	1155	1360
VESSEL HEIGHT	MM	1790	1990	2080	2110	2300	2405
MIN. CEILING HEIGHT	MM	2175	2655	2720	2400	2850	2890
CONNECTION SIZE	MM	80	100	100	150	150	200/150
PERLITE	KG	3.2	4.2	6.3	8.4	10.5	12.6
DIATOMATEOUS EARTH (DE)	KG	4.1	5.5	8.3	11.0	13.8	16.5
SHIPPING WEIGHT	KG	215	275	595	620	645	680
OPERATIONAL WEIGHT	KG	650	780	1640	1790	1840	2350
		OPERATIONAL DATA					
FLOW RATE @ 2.5M3/H/M2	M2	30.00	40.00	45.00	45.00	60.00	65.00
FLOW RATE @ 3.5M3/H/M2	M3	42.00	56.00	63.00	63.00	84.00	91.00
FLOW RATE @ 4.5M3/H/M2	M3	54.00	72.00	81.00	81.00	108.00	117.00
BACKWASH RATE	LT/S	16	22	24.0	24.0	32.0	36.0
MIN. WASH WATER	M3	1.8	1.8	1.8	2.7	2.7	2.7
MAX OPERATING PRESSURE	KPA	200	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350	350

FLUIDRA AUSTRALIA CODE		60500350	60500450	60500550	60500650	60500750	60500900
		PCT 350	PCT 450	PCT 550	PCT 650	PCT 750	PCT 900
		PHYSICAL DATA					
FILTER SURFACE AREA	M2	35	45	55	65	75	90
VESSEL DIAMETER	MM	1360	1360	1620	1860	1860	2010
VESSEL HEIGHT	MM	2405	2365	2370	2510	2635	2760
MIN. CEILING HEIGHT	MM	2890	2910	2920	2875	3140	3250
CONNECTION SIZE	MM	200/150	200	200	200	200	250
PERLITE	KG	14.7	18.9	23.1	27.3	31.5	37.8
DIATOMATEOUS EARTH (DE)	KG	19.3	24.8	30.3	35.8	41.3	49.5
SHIPPING WEIGHT	KG	695	895	1470	1685	1895	2310
OPERATIONAL WEIGHT	KG	2625	4125	4610	6175	6480	7105
		OPERATIONAL DATA					
FLOW RATE @ 2.5M3/H/M2	M2	87.50	112.50	137.50	162.50	187.50	225.00
FLOW RATE @ 3.5M3/H/M2	M3	122.50	157.50	192.50	227.50	262.50	315.00
FLOW RATE @ 4.5M3/H/M2	M3	157.50	202.50	247.50	292.50	337.50	405.00
BACKWASH RATE	LT/S	48	61.0	75.0	88.0	102.0	122.0
MIN. WASH WATER	M3	6.0	7.7	9.0	11.0	12.5	15.0
MAX OPERATING PRESSURE	KPA	200	200	200	200	200	200
TEST PRESSURE	KPA	350	350	350	350	350	350

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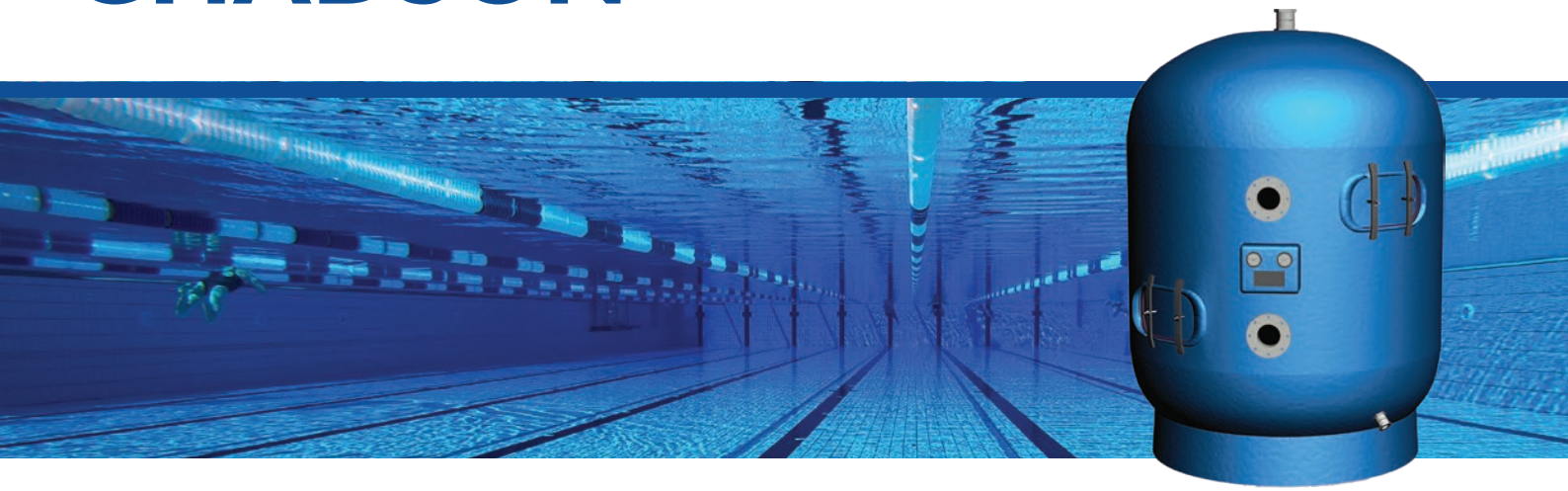


VDF | Vertical Dual Media Filters

KEY FEATURES AT A GLANCE

- Non-corrosive & durable construction materials - without a reliance upon protective coating/paint systems. Cathodic protection is also not required
- Transportable & lightweight construction - up to one sixth the weight of a comparable steel vessel
- Short term savings through easier installation & long term benefits due to vastly reduced maintenance
- Effective “deep bed” filtration with media volumes & bed compositions that are designed for demanding & critical applications
- Being Australian-made, both standard and custom-made product can be supplied within a manageable & agreed delivery time
- Filter internals designed to accommodate aggressive backwash rates of up to 42m3/hr/m2 without any excessive pressure/head loss
- Models with patented FloModuLata™ internals (No PP743517) to control & optimize the waterstreams in both the filter and the backwash operation.

OPTIONAL FEATURES

- Multiple & different access hatches, additional nozzles, lifting lugs, endoscope connection, etc.
- Choice of backwash method single lever, valve matrix, or shunt - all of which can be automated
- Air assisted backwash methods (unique double-walled air scour internals)
- Flat filter floor obviating the need for clean water plenums and known pressure differential problems
- High than standard pressure ratings - external & dependent certification to meet specific standards.

FINAL WORD

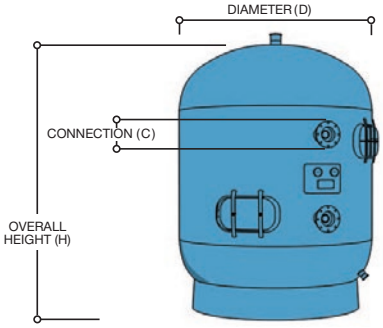
Conventional filter materials like protected carbon steel (and even concrete) are not immune from corrosion. Fiber Reinforced Plastic (FRP) on the other hand is a totally inert engineering material that is not easily abraded by regular and abrasive backwashes. Improper or poor filter selection can result in high maintenance and expensive replacement costs. Quite apart from any cost implications, corrosion & other problems can also be critical in terms of the risks and the inconvenience that could be caused by a major disruption to plant &/or services.

Chadson by Fluidra are accredited Australian manufactures of FRP pressure filters with more than 30 years of applied experience. With over 2,000 assorted FRP pressure filters to their manufacturing credit, you can be assured that Chadson by Fluidra filters are “tried & proven”. It’s simply not worth it. With the proven and dependable performance of CHADSON GRANULAR FILTERS, buying Australian-made makes good economic sense - not only for your project... But for the whole country.

TECHNICAL DATA

FILTER MODEL	AREA (M^2)	FLOW RANGE (M^3/HR)	BW FLOW (L/SEC)	MEDIA VOLUME (M^3)	DIMENSIONS (MM)		
					A	B	C
VDF1000	0.785	12-33	9	0.942	1000	100	2550
VDF1200	1.1	16-46	13	1.32	1200	100	2550
VDF1500	1.76	26-74	21	2.12	1500	150	2550
VDF2000	3.14	47-132	37	3.76	2000	150	3100
VDF2200	3.8	57-160	44	4.56	2200	150	2950
VDF3000	7.07	106-297	82	8.48	3000	200	3200

• ABOVE “FLOW RANGE” IS BASED ON A SELECTED FILTER RATE (15 TO 42M3/HR/M2) WHICH WILL VARY ACCORDING TO THE APPLICATION
• REFER TO DATA SHEET/SALES OUTLINE FOR SPECIFIC DETAILS ON NOZZLE SIZE & LOCATION. THIS MAY VARY TO SUIT THE SPECIFIC SUPPLY CONTRACT/PROJECT REQUIREMENTS.
• FILTER MEDIA REQUIREMENTS WILL VARY ACCORDING TO THE TYPE OF MEDIA & THE APPLICATION



CHADSON

Chadson Inceptor Prepump Strainers

INNOVATIVE FILTRATION FOR ENHANCED EFFICIENCY

INTERCEPTOR strainers are not traditional “bucket” type strainers. The straining mechanism of the INTERCEPTOR features a perforated W-shaped pleated screen. This unique screening mechanism provides high process efficiency and a far greater capability to retain solids.

The INTERCEPTOR Prepump Strainer serves a vital function by preventing large solids from entering the workings of a motor driven pump set.

The INTERCEPTOR Strainer features non-metallic housing, manufactured from select FRP resins that will not rust or corrode, even in seawater and other corrosive environments. Standard working pressures are up to 100 kPa vacuum and 150 kPa pressure.

The INTERCEPTOR Stainer has Vanstone flanges, sized for common line sizes with a reduced outlet to suit comparable pump inlet connections.

The standard screen material is Grade 316L stainless steel with 3.25-mm diameter holes on a staggered 4.5-mm.

INTERCEPTOR Prepump Strainers have a clear viewing lid with easy access swing bolts. An air vent and vacuum gauge are standard inclusions.

THE ADVANTAGES OF THE INTERCEPTOR PREPUMP STRAINER

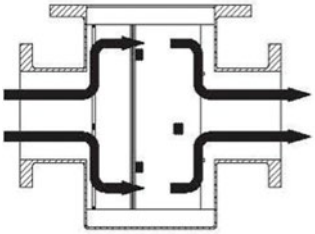
The unique W-shaped pleated screen in an INTERCEPTOR Prepump Strainer does a far better job of sustaining water flow while it continues to collect solids. This simply does not happen with a conventional “bucket” type strainer that is commonly prone to localized plugging and sudden increases in vacuum.

Like with a simple bar screen, the incoming soiled water of an Interceptor approaches the W-shaped pleated screen on an angle. This helps to filter finer and to collect solids over a greater surface area, without incurring an excessive rise in vacuum.

This increased efficiency of an INTERCEPTOR strainer can lighten the load on downstream filtration. The screen cleaning frequency can also be up to five times greater than a traditional bucket type Prepump strainer.

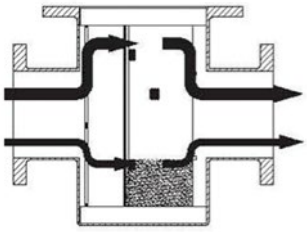
With its non-metallic FRP casing and its superior hydraulic capability, the INTERCEPTOR Prepump Strainer is simply a better way to protect your pump

FIGURE 1 - CLEAN OPERATION & INITIAL COLLECTION OF SOLIDS



100% Open Basket Flow

Flow is evenly balanced with minimal head loss in the element and body. The water velocity is below the setting rate of some of the debris.

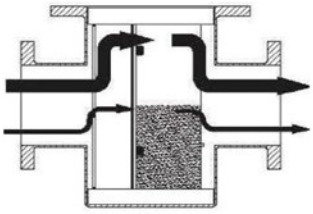


75% Open Basket Flow

Flow is concentrated in 75% of element with minimal head loss in the element and body. The bottom of the element has plugged first due to settling of debris. Flow velocity is accelerating in upper half and decreasing in lower half of the body.

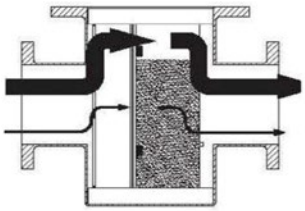
Interceptor W Shaped Screen

FIGURE 2 - FURTHER SOLIDS COLLECTION UP TO THE SCREENING PHASE



50% Open Basket Flow

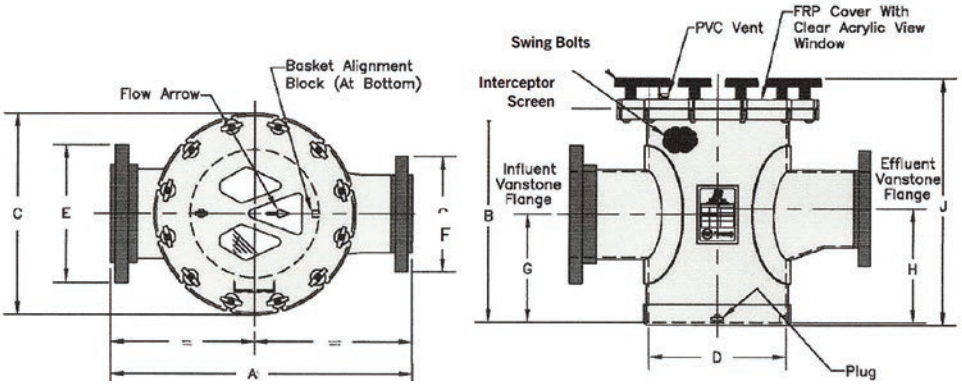
Flow is concentrated in 50% of element with minimal head loss in the element. Head loss starting to rise due to increased flow in the upper half of the body.



25% Open Basket Flow

Flow is concentrated in 25% of element with a rise in head loss in the element. Head loss is high iin the body due to a concentrated flow in the upper half of the body.

OUTLINE DIMENSIONS



MODEL	NOM FLOW (L/SEC)	FLANGE "IN"	FLANGE "OUT"	A	B	C	D	E	F	G	H	J
400-150/100	33	150	100	600	545	520	400	280	215	350	200	610
400-200/125	58	200	125	700	545	520	400	335	255	350	200	610
400-200/150	58	200	150	700	700	545	400	335	280	350	200	610
500-250/200	90	250	150	800	815	520	400	405	280	350	200	610
500-300/200	90	250	200	800	815	630	500	405	335	500	300	850
500-300/200	130	300	200	900	815	630	500	455	335	500	350	850
500-300/250	130	300	250	900	815	630	500	455	405	500	350	850

Nominal Flow is based upon a maximum incoming line velocity of < 2-m/sec - this may very.
The reduced outlet size of the strainer matches the inlet size of ISO pumps capable of the strainers nominal flow.

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