



FILTERS

Updated September 2025

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

CLEAN & CLEAR® PLUS FILTERS

FIBERGLASS REINFORCED POLYPROPYLENE TANK

Featured Highlights

- Certified to NSF/ANSI Standard 50
- Large filter area for increased dirt capacity
- 1-1/2 in., 100% drain clean-out port
- Continuous High Flow™ Internal Air Relief *
- Base and plumbing kits available
- Injection molded tank
- Balanced hydraulic flow
- Cast Clamp
- Black bulkhead unions
- High Flow manual air relief valve

Clean & Clear Plus Filter



TRADEGRADE

Clean & Clear Plus Filters have a corrosion resistant injection molded filter tank featuring strength and reliability. The cartridge assembly uses four easy to clean, non-woven, polyester cartridges. Each filter is supplied with a bulkhead union set for easy installation.

Watch safety video on: pentair.com/poolfiltersafety

*Integrated Continuous High Flow Internal Air Relief is operational only when there is unobstructed flow in the circulating system.

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate ² (GPM Res)	Turnover Capacity (In Gallons)			Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour		
CLEAN & CLEAR PLUS FILTERS								
160340	CCP320 ¹	320	120	57,600	72,000	86,400	1	70
160301	CCP420 ¹	420	150	72,000	90,000	108,000	1	80
160332	CCP520 ¹	520	150	72,000	90,000	108,000	1	90
CLEAN & CLEAR PLUS REPLACEMENT CARTRIDGES								
179133	Model 240 Pleatco Ultra Replacement Cartridges (4/Pack)							
ULTRA-A4-PAK4	Model 240 Pleatco Ultra Replacement Cartridges (4/Pack)							
179134	Model 320 Pleatco Ultra Replacement Cartridges (4/Pack)							
ULTRA-A5-PAK4	Model 320 Pleatco Ultra Replacement Cartridges (4/Pack)							
179135	Model 420 Pleatco Ultra Replacement Cartridges (4/Pack)							
ULTRA-A6-PAK4	Model 420 Pleatco Ultra Replacement Cartridges (4/Pack)							
179136	Model 520 Pleatco Ultra Replacement Cartridges (4/Pack)							
ULTRA-A7-PAK4	Model 520 Pleatco Ultra Replacement Cartridges (4/Pack)							

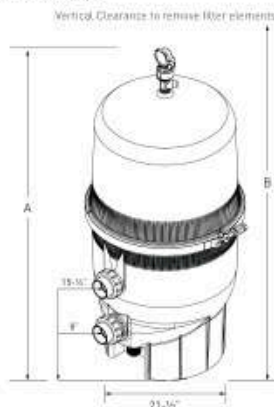
¹ Certified to NSF/ANSI Standard 50.

² Residential rate .375 GPM per sq. ft. of filter area.

**Certified to
NSF/ANSI Standard 50**

Dimension Table

Model	A Dim.	B Dim.
160340	43"	62"
160301	49"	68"
160332	56"	74"



SEE PAGE 331 FOR REPLACEMENT PARTS

Dimensions and Performance

Note: Actual system flow will depend on plumbing size and other system components.

Note: Pentair does not recommend flow rates above 150 GPM.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).

CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

CLEAN & CLEAR® FILTERS

FIBERGLASS REINFORCED POLYPROPYLENE TANK



TRADEGRADE

Clean & Clear
Filter



Featured Highlights

- Certified to NSF/ANSI Standard 50
- Unionized connections
- Integrated continuous High Flow™ Internal Air Relief *
- Chemical resistant tank body
- Lock ring with spring-loaded safety latches
- Coreless cartridge for easy cleaning
- High Flow manual air relief valve
- 1 in. drain and wash out
- Single piece base and body design

* Integrated continuous High Flow internal air relief is operational only when there is unobstructed flow in the circulating system.

The Clean & Clear Filter features a chemical resistant tank with no-tool servicing and a coreless cartridge for easier cleaning. All models are equipped with easy spin-on unions for plumbing hook-ups. These filters are certified to NSF/ANSI Standard 50 and available in 50, 75, 100, 150, and 200 square foot sizes.

Watch safety video on: pentair.com/poolfiltersafety

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate ¹ (GPM Res)	Turnover Capacity (In Gallons)			Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour		
CLEAN & CLEAR FILTERS								
160316	CC 100	100	100	48,000	60,000	72,000	1	33
160317	CC 150	150	150	72,000	90,000	108,000	1	35
160318	CC 200	200	150	72,000	90,000	108,000	1	35
CLEAN & CLEAR REPLACEMENT CARTRIDGES								
ULTRA-C3	CC 100	Pleatco Ultra Replacement Cartridge						
ULTRA-C4	CC 150	Pleatco Ultra Replacement Cartridge						
ULTRA-C5	CC 200	Pleatco Ultra Replacement Cartridge						

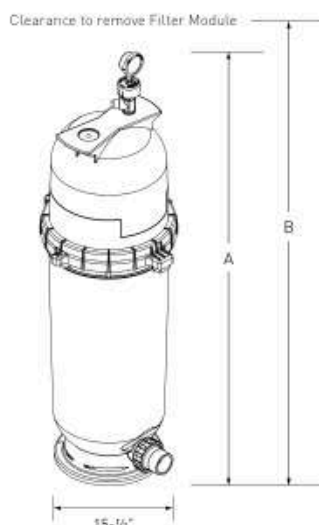
¹ One GPM per sq. ft. shown recommended flow rate .5 GPM per sq. ft.

Dimensions and Performance

Note: Actual system flow will depend on plumbing size and other system components.

Note: Pentair does not recommend flow rates above 150 GPM.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).



**Certified to
NSF/ANSI Standard 50**

Dimension Table

Model	A Dim.	B Dim.
160315	25-1/2"	39"
160316	33"	61"
160317	40-1/2"	76"
160318	40-1/2"	76"

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SEE PAGE 331 FOR REPLACEMENT PARTS

CLEAN & CLEAR® RP FILTERS

FIBERGLASS REINFORCED POLYPROPYLENE TANK

Featured Highlights

- Cartridge is easy to remove and rinse
- Low-force, quick-connect diamond-seal fastens easily with no tools required
- Chemical resistant tank body
- High Flow™ Manual Air Relief* valve and continuous internal air relief
- 1-1/2 in. drain and washout for quick and convenient maintenance and winterization
- Easy turn Lock-ring

* Integrated continuous High Flow internal air relief is operational only when there is unobstructed flow in the circulating system.



TRADEGRADE

Clean & Clear
RP Filter

Outlet

Inside, the Clean & Clear RP Filter has increased cartridge surface consistency to block and trap particles as small as 20 microns.

Watch safety video on: pentair.com/poolfiltersafety

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate ¹ (GPM Res)	Turnover Capacity (In Gallons)			Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour		
CLEAN & CLEAR RP FILTERS								
160354	CCRP 100	100	100	48,000	60,000	72,000	1	33
160355	CCRP 150	150	150	72,000	90,000	108,000	1	35
160353	CCRP 200	200	150	72,000	90,000	108,000	1	35
CLEAN & CLEAR RP REPLACEMENT CARTRIDGES								
ULTRA-C3	CCRP 100	Pleatco Ultra Replacement Cartridge						
ULTRA-C4	CCRP 150	Pleatco Ultra Replacement Cartridge						
ULTRA-C5	CCRP 200	Pleatco Ultra Replacement Cartridge						

¹ One GPM per sq. ft. shown recommended flow rate .5 GPM per sq. ft.

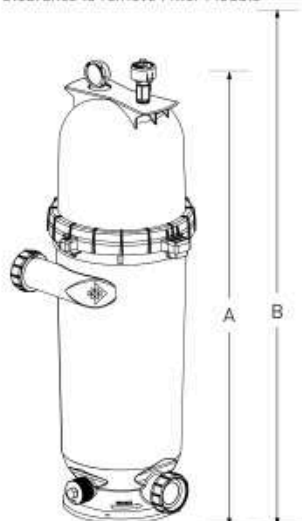
**Certified to
NSF/ANSI Standard 50**

Clean & Clear RP		
Model	A Dim	B Dim
160354	33"	61"
160355	40.5"	76"
160353	40.5"	76"

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Clearance to remove Filter Module



Dimensions and Performance

Note: Actual system flow will depend on plumbing size and other system components.

Note: Pentair does not recommend flow rates above 150 GPM.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).

SEE PAGE 331 FOR REPLACEMENT PARTS

DYNAMIC® FILTER SERIES

FOR SPAS, HOT TUBS, AND SWIMMING POOLS



Dynamic Filter Series

Featured Highlights

- Free standing base optional on all but DSC models
- Cartridges are manufactured using high-quality filter media

The Dynamic Filter Series line includes in-line, top load, flange lily pad and safety skim filters with automatic chemical dispensers and a host of features created for the leading spa manufacturers throughout the country.

Ordering Information

Product	Model	Description	Effective Filtration Area (Sq. Ft.)	Max GPM	Plumbing Size	Filter Dimensions		Carton Qty.	Carton Wt. (Lbs.)
						Height	Diameter		
DYNAMIC FILTER SERIES II TOP LOAD 2 in. HIGH FLOW FILTERS									
R172502J	RTL 25	Slip, 3 oz. cartridge	25	100	2 in. socket	18 in.	8-1/4 in.	4	27
R172504B	RTL 50	Slip, 3 oz. cartridge	50	100	2 in. socket	18 in.	8-1/4 in.	4	28
R172505	RTL 100	Slip, 3 oz. cartridge	100	100	2 in. socket	31-1/2 in.	8-1/4 in.	4	32
DYNAMIC FILTER SERIES III TOP LOAD 2 in. HIGH FLOW FILTERS WITH CHLORINE/BROMINE DISPENSERS									
R172523	RCF 25	Slip, 3 oz. cartridge	25	100	2 in. socket	18 in.	8-1/4 in.	4	28

* All available in white. For sterling silver top add "SS" to order number. For dark grey add "DG."

CALIFORNIA PROPOSITION 65 WARNING

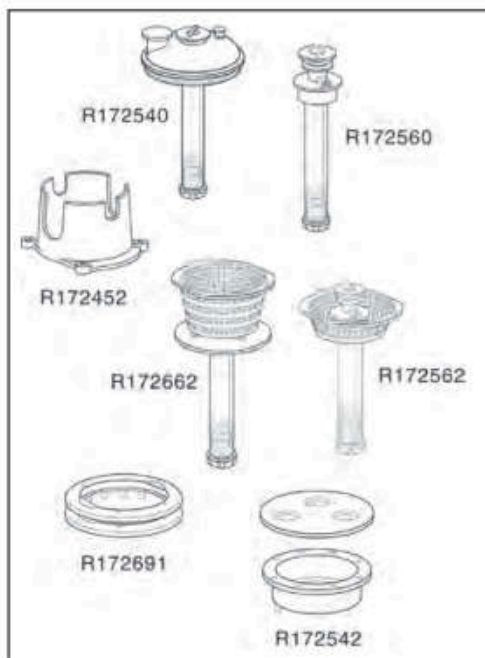
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DYNAMIC® FILTER SERIES (CONT'D)

Product	Description	Carton Qty.	Carton Wt. (Lbs.)
ACCESSORIES FOR DYNAMIC FILTER SERIES II, III, IV, V			
R172452	Free standing base for Dynamic Filter Series II and III	Bulk	
R172540	Chlorine/Bromine Dispenser for Dynamic Filter Series II and III	Bulk	



RLT-25



RCF-25



DMFL-25

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SEE PAGE 331 FOR REPLACEMENT PARTS

SYSTEM:3™ MODULAR MEDIA FILTERS

SM SERIES FILTERS



TRADEGRADE



System:3 Modular Media Filter
SM Series

Featured Highlights

- Typical Installation – Inground pools, inground hot tubs, and water features
- Quality Construction – Durable two-piece tank housing constructed of Dura-Glas™, Sta-Rite's industry leading glass reinforced composite resin
- Innovative Design – The modular media concept incorporates media science, perfectly balanced flow, and an integral manifold design
- Low Maintenance – Complete media coverage combined with shallow pleats means greater dirt holding capabilities, resulting in longer filter cycles and less cleaning
- Quick Service – The shallow pleat design allows you to simply hose off the elements in a matter of minutes, making servicing a snap
- Dual Drain Plugs – Side plug available for plumbing to waste, while the bottom plug will drain entire filter

With the System : 3 Modular Media Filter, Sta-Rite brings you the product that makes Ultra-Capacity Filtration™ a reality. No longer simply "cartridges", Sta-Rite's modular media concept incorporates balanced flow, and an integral manifold design. This filtration concept aids in care-free operation within reach of today's pool owners. Modular Filter Tanks allow for quick change of filter medias without changing the tank. Contemporary style and matte black finish looks attractive in any pool setting.

Ordering Information

Product	Effective Filter Area(Sq. Ft.)	Flow Rated ¹ GPM (Sq. Ft.)	Turnover Capacity (In Gallons) (Flow Rate x 60 x Hours)			Tank Port Size	Carton Wt. (Lbs.)
			6 Hour	8 Hour	10 Hour		
			SYSTEM:3 MODULAR MEDIA FILTER - SM SERIES				
S7M120	300	50-100	18-36,000	24-48,000	30-60,000	2 in.	120
S7M400 ¹	400	50-115	18-41,000	24-55,000	30-69,000	2 in.	125
S8M150 ¹	450	50-124	18-45,000	24-60,000	30-74,000	2 in.	147
S8M500 ¹	500	50-130	18-46,000	24-62,400	30-78,000	2 in.	150

¹ Based on NSF rated flow range of .333 GPM per square foot for the S7M120.

.288 GPM per square foot for the S7M400, .275 GPM for the S8M150 and .26 GPM per square foot for the S8M500.

Note: No backwash valve required.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).

CALIFORNIA PROPOSITION 65 WARNING

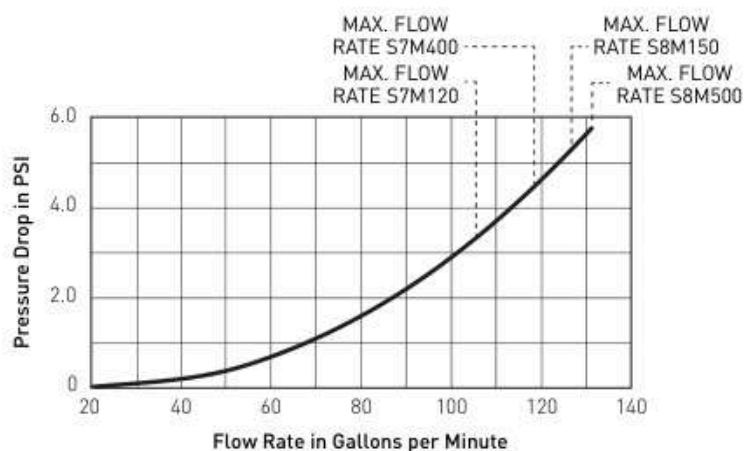
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SYSTEM:3™ MODULAR MEDIA FILTERS (CONT'D)

SM SERIES FILTERS

Ordering Information

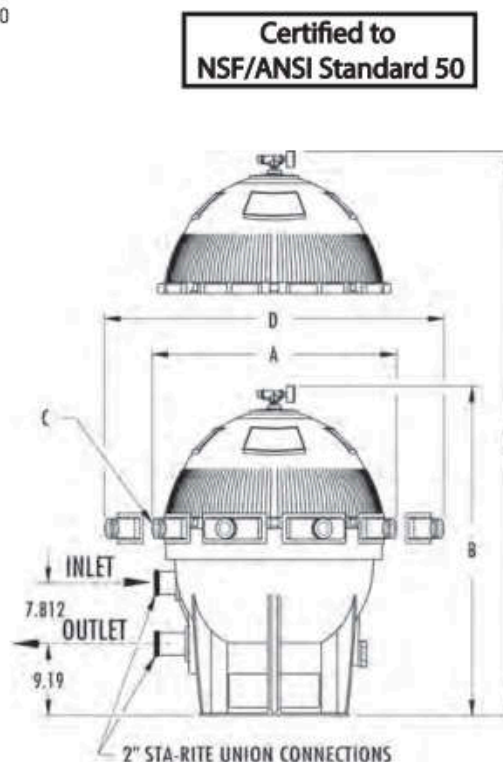
Product	Description	Carton Wt. (Lbs.)
ACCESSORIES FOR SYSTEM:3 MODULAR MEDIA FILTER - SM SERIES		
PKG 188Z	Union x 2 in. Slip Adapter - Pkg. of 2	1
PKG 189	Union x 2 in. FPT Adapter - Pkg. of 2	1
77703-0100	Union x 1-1/2 in. FPT Adapter - Pkg. of 2	1
77703-0101	Union x 1-1/2 in. Slip Adapter - Pkg. of 2	1
25021-0200S	100 sq. ft. Inner Replacement Module for S7M120	9
25022-0201S	200 sq. ft. Outer Replacement Module for S7M120	21
25021-0223S	136 sq. ft. Inner Replacement Module for S7M400	11
25022-0224S	264 sq. ft. Outer Replacement Module for S7M400	24
25021-0202S	191 sq. ft. Inner Replacement Module for S8M150	18
25022-0203S	259 sq. ft. Outer Replacement Module for S8M150	27
25021-0224S	209 sq. ft. Inner Replacement Module for S8M500	19
25022-0225S	291 sq. ft. Outer Replacement Module for S8M500	28
25021-0021	Modular Media Conversion Kit - S7M120/S7M400 (Order Modules Separately)	4
25021-0025	Modular Media Conversion Kit - S8M150/S8M500 (Order Modules Separately)	5
170145	S7M120 Inner & Outer Replacement Cartridge Pack	35
170146	S7M400 Inner & Outer Replacement Cartridge Pack	35
170147	S8M150 Inner & Outer Replacement Cartridge Pack	50
170148	S8M500 Inner & Outer Replacement Cartridge Pack	50



Catalog Number	DIMENSION				
	A	B	C	D	E
S7M120/S7M400	28-1/2	42	7	36	50
S8M150/S8M500	32-1/2	42-1/4	8	40	50

- A = width
B = height
C = number of clamps
D = area (width) needed to take off clamps
E = area (height) needed to remove top half of tank
All dimensions shown in inches.

Dimensions and Performance



SEE PAGE 331 FOR REPLACEMENT PARTS

SYSTEM:2™ MODULAR MEDIA FILTERS

PLM SERIES FILTERS



TRADEGRADE



System:2 Modular Media Filters
PLM Series

Featured Highlights

- Typical Installation – aboveground pools, inground pools, and inground hot tubs
- Quality Construction – Durable two-piece tank housing constructed of rugged ABS thermoplastic to ensure a long-lasting tank life
- Easy Access – Posi-Ring Locking Ring provides fast access to tank internals
- Innovative Design – The innovative balanced flow design first introduced with the System : 3 Modular Media filter is available in the smaller System:2 filter
- Low Maintenance – Complete media coverage combined with shallow pleats means greater dirt holding capabilities, resulting in longer filter cycles and less cleaning
- Large Drain Plug – Filter includes 2 in. NPT Drain ports, which are provided with reducer bushing and 1-1/2 in. drain plug

Sta-Rite's modular media filtration is a great match for both the inground and aboveground pool markets. Advances in media technology and balanced flow design provide the optimal dirt holding capabilities. The small diameter footprint makes the System:2 filter a great fit for new and retrofit installations.

Modular Filter Tanks allow for quick change of filter medias without changing the tank. Contemporary style and matte black finish looks attractive in any pool setting.

Ordering Information

Product	Effective Filter Area(Sq. Ft.)	Flow Rated ¹ GPM(Sq. Ft.)	Turnover Capacity (In Gallons) (Flow Rate x 60 x Hours)			Tank Port Size	Carton Wt. (Lbs.)
			6 Hour	8 Hour	10 Hour		
SYSTEM:2 MODULAR MEDIA FILTER - PLM SERIES							
PLM150	150	56-150	20-54,000	27-72,000	34-90,000	2 in.	43
PLM200	200	75-150	27-54,000	36-72,000	45-90,000	2 in.	45
PLM300	300	113-150	41-54,000	54-72,000	68-90,000	2 in.	53

¹ Based on NSF recommended flow rate for commercial at .375 GPM per square foot.

Note: No backwash valve required.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).

CALIFORNIA PROPOSITION 65 WARNING

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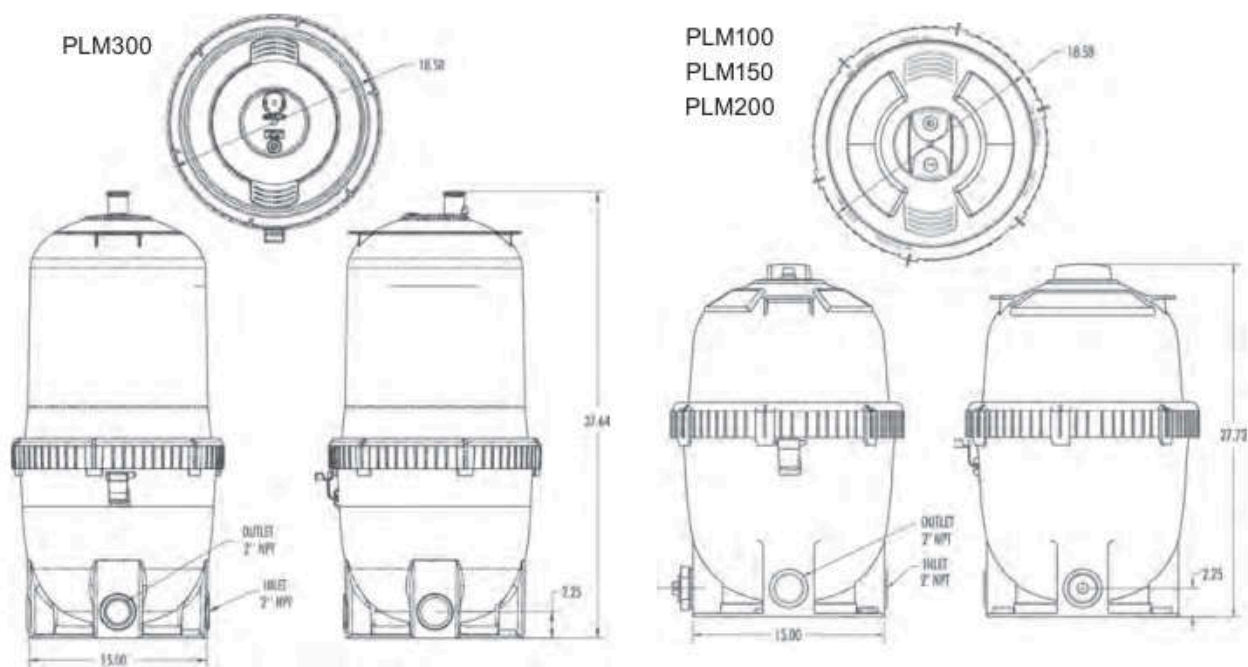
SYSTEM:2™ MODULAR MEDIA FILTERS (CONT'D)

PLM SERIES FILTERS

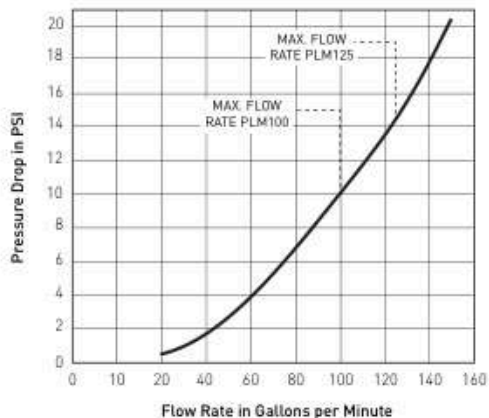
Ordering Information

Product	Description	Carton Wt. (Lbs.)
ACCESSORIES FOR SYSTEM:2 MODULAR MEDIA FILTER - PLM SERIES		
27002-0100S	100 Sq. Ft. Replacement Module for PLM100	11
27002-0125S	125 Sq. Ft. Replacement Module for PLM125	11.5
27002-0150S	150 Sq. Ft. Replacement Module for PLM150	12
27002-0175S	175 Sq. Ft. Replacement Module for PLM175	13
27002-0200S	200 Sq. Ft. Replacement Module for PLM200	14
27002-0300S	300 Sq. Ft. Replacement Module for PLM 300	19
U78-820P	2 in. x 1-1/2 in. Pipe Reducer Bushing	8 oz.
27001-0130S	Spring Check Valve	1

Dimensions and Performance



All dimensions shown in inches.



PLM100,
PLM125,
PLM150,
PLM175,
PLM200,
PLM300

**Certified to
NSF/ANSI Standard 50**

SEE PAGE 331 FOR REPLACEMENT PARTS

POSI-CLEAR™ RP FILTERS

FIBERGLASS REINFORCED POLYPROPYLENE TANK



TRADEGRADE



Featured Highlights

- Certified to NSF/ANSI Standard 50
- Unionized connections
- Integrated continuous High Flow™ Internal Air Relief *
- Chemical resistant tank body
- Lock ring with spring-loaded safety latches
- Coreless cartridge for easy cleaning
- High Flow Manual Air Relief valve
- 1 in. drain and wash out
- Single piece base and body design

The Posi-Clear RP Filter features a chemical resistant tank with no-tool servicing and a coreless cartridge for easier cleaning. All models are equipped with easy spin-on unions for plumbing hook-ups. These filters are certified to NSF/ANSI Standard 50 and available in 100, 150, and 200 square foot sizes.

*Integrated continuous High Flow internal air relief is operational only when there is unobstructed flow in the circulating system.

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate ¹ (GPM Res)	Turnover Capacity (In Gallons)			Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour		
POSI-CLEAR RP FILTERS								
160351	PXCRP100	100	100	48,000	60,000	72,000	1	33
160352	PXCRP150	150	150	72,000	90,000	108,000	1	35
160350	PXCRP200	200	150	72,000	90,000	108,000	1	35
POSI-CLEAR RP REPLACEMENT CARTRIDGES								
ULTRA-C3	PXCRP100	Pleatco Ultra Replacement Cartridge						
ULTRA-C4	PXCRP150	Pleatco Ultra Replacement Cartridge						
ULTRA-C5	PXCRP200	Pleatco Ultra Replacement Cartridge						

¹ One GPM per sq. ft. shown recommended flow rate .5 GPM per sq. ft.

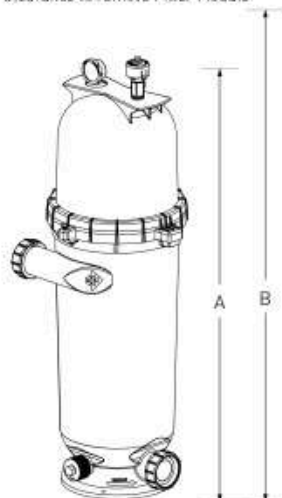
Dimensions and Performance

**Certified to
NSF/ANSI Standard 50**

Posi-Clear RP		
Model	A Dim	B Dim
160351	33"	61"
160352	40.5"	76"
160350	40.5"	76"

SEE PAGE 331 FOR
REPLACEMENT PARTS

Clearance to remove Filter Module



Note: Actual system flow will depend on plumbing size and other system components.

Note: Pentair does not recommend flow rates above 150 GPM.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).

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FULLFLOXF®

HIGH EFFICIENCY FILTERS

Featured Highlights

- Greater filtration reduces tiny particles for a sparkling pool experience
- Enhanced design and balanced flow enable 25% greater energy efficiency and lower operating cost when compared to the Clean & Clear(R) Plus filter*
- Ideal for large and premium pools, longer filtration cycles extend periods between cleanings
- Chemical-resistant, fiberglass tanks are designed for exceptional strength and durability
- 2.5 inch internal plumbing

*Statements of filter performance are based on estimates. Actual performance may vary and is not guaranteed. Estimates for filter efficiency are based on the power required to pump 150 GPM of water through a Clean & Clear® Plus 520 filter using a IntelliFlo® VSF pump verses a FullFloXF C620 filter using an IntelliFlo VSF Pump.

The FullFloXF family of high efficiency pool filters offers greater filtration, easy maintenance, and longer runs between cleanings.



TRADEGRADE

FV-Series Grid
Style D.E. Filter

Ordering Information

Product	Model	Media Type	Filter Area (sq.Ft.)	Vertical Clearance**	Filter	Plumbing Size	Flow Rate (GPM)	Turnover Capacity (Gallons)		
								8 Hours	10 Hours	12 Hours
FULLFLOXF HIGH EFFICIENCY FILTERS										
160448	C620	Cartridge	620	76"	Cartridge	2.5-3"	180	86,400	108,000	129,600
188616	Q120	DE	120	76"	Cartridge Style D.E. Filter	2.5-3"	180	86,400	108,000	129,600
188621	F72	DE	72	92"	Grid Style D.E. Filter	2.5-3"	144	69,120	86,400	103,680
188624	FV60	DE	58	70"	Grid Style D.E. Filter	2"	116	55,680	69,600	83,520
188625	FV72	DE	72	76"	Grid Style D.E. Filter	2"	144	69,120	86,400	103,680
REPLACEMENT ELEMENTS/CARTRIDGES										
C620	ULTRA-A18-PAK4									
Q120	178750Z									
F72	PFS3672									

**Minimum clearance to remove lid and internal elements.

**Certified to
NSF/ANSI Standard 50**

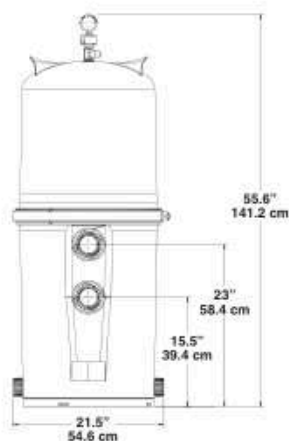
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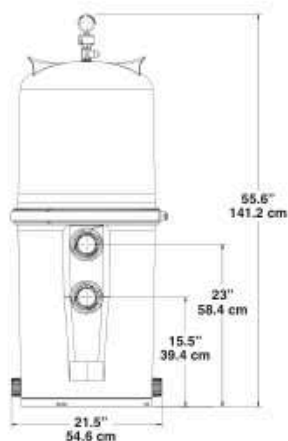
FULLFLOXF® (CONT'D)

HIGH EFFICIENCY FILTERS

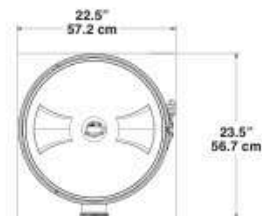
Dimensions and Performance



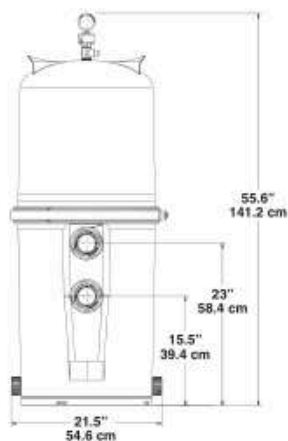
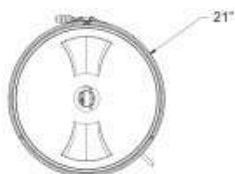
FullFloXF Q-Series



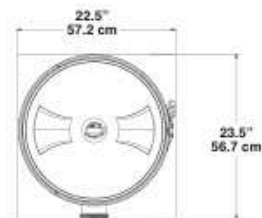
FullFloXF C-Series



FullFloXF FV-Series



FullFloXF F-Series



FNS® PLUS FILTERS

FIBERGLASS REINFORCED POLYPROPYLENE MATERIAL, VERTICAL GRID, D.E.

Featured Highlights

- Certified to NSF/ANSI Standard 50
- Service-Ease™ Grid Pack
- Continuous High Flow™ Internal Air Relief *
- Top-to-bottom backwash
- High Flow Manual Air Relief valve
- Cast Clamp
- 1-1/2 in. bottom clean out port
- 7-1/2 in. centerline bulkhead fittings

* Integrated continuous High Flow internal air relief is operational only when there is unobstructed flow in the circulating system.

FNS Plus filters are fiberglass reinforced polypropylene of advanced chemical resistant materials for strength and reliability. The top manifold design features the Service-Ease grid pack for convenient one-at-a-time grid servicing.

CALIFORNIA PROPOSITION 65 WARNING
 ⚠ WARNING: Cancer and Reproductive Harm.
 ⚠ AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur.
 ⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.
 www.p65warnings.ca.gov. 01/07/13

Valve adapters not included.



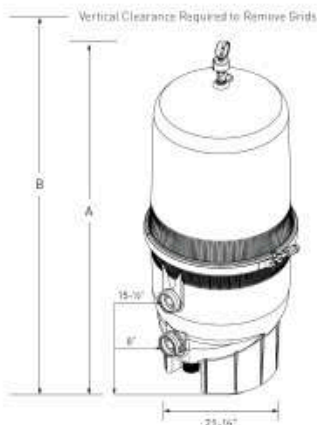
Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate ¹ (GPM)	Turnover Capacity (In Gallons)			D.E. Required (Lbs.)	Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour			
FNS PLUS FILTERS									
180007	FNSP36	36	72	34,560	43,200	51,840	3.6	1	70
180008	FNSP48	48	96	46,080	57,600	69,120	4.8	1	80
180009	FNSP60	60	120	57,600	72,000	86,400	6.0	1	90
FNS PLUS VALVE OPTIONS ²									
261049	2 in. HiFlow valve, no plumbing							1	7
261142	2 in. HiFlow valve with plumbing for FNS, FNS Plus, NSP filters							1	11
261152	2 in. MPV, threaded for FNS, FNS Plus, NSP filters							1	10
263064	Push pull valve, 7-1/2 in. Center, Almond PVC							1	6
261177	1-1/2 in. MPV, threaded for FNS, FNS Plus, NSP filters							1	7
263081	Valve for D.E., inlet port on bottom, Pentair 2 in. unions glued on XF Valve							1	12
270100	Valve Adaptor Kit 2" Black							1	1
271096	Valve Adaptor Kit 2" White							1	1
FNS PLUS REPLACEMENT GRID ELEMENTS									
198080	FNSP24 Element Only Replacement Pack (7 large, 1 small)				PFS1224	FNSP24 Pleatco Element Only Replacement Pack (7 large, 1 small)			
198081	FNSP36 Element Only Replacement Pack (7 large, 1 small)				PFS1836	FNSP36 Pleatco Element Only Replacement Pack (7 large, 1 small)			
198082	FNSP48 Element Only Replacement Pack (7 large, 1 small)				PFS2448	FNSP48 Pleatco Element Only Replacement Pack (7 large, 1 small)			
198083	FNSP60 Element Only Replacement Pack (7 large, 1 small)				PFS3060	FNSP60 Pleatco Element Only Replacement Pack (7 large, 1 small)			

¹ Flow rate is based on 2.0 GPM per sq. ft. of filter area. Actual system flow will depend on plumbing size and other system components.

² Valves must be purchased separately.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).



Dimensions and Performance

Certified to NSF/ANSI Standard 50

Dimension Table

Product	A Dim.	B Dim.
180007	43"	62"
180008	49"	74"
180009	55"	86"

SEE PAGE 331 FOR REPLACEMENT PARTS

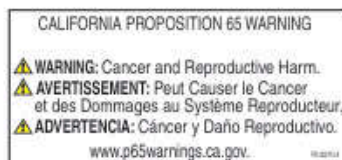
QUAD D.E.® FILTERS CARTRIDGE STYLE FILTER

TRADEGRADE



Quad D.E. Filters combine quality filtration with the convenience and easy cleaning features usually found in a cartridge filter. Four easily accessible and removable D.E. cartridges simplify maintenance.

Quad D.E. Filter



Featured Highlights

- Four large-capacity cartridges provide maximum filter surface area for greater dirt-trapping capacity and longer periods between cleanings
- Chemical resistant, fiberglass reinforced polypropylene tank for exceptional strength and longer life
- Easily removable cartridge elements make maintenance fast and easy
- The efficient water flow through the Quad D.E. Filter may assist your pump in using less energy

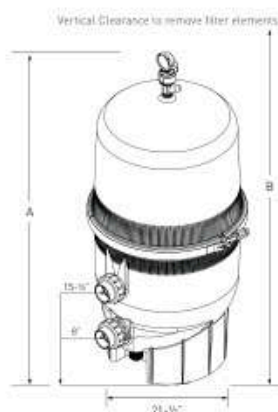
* Integrated continuous High Flow internal air relief is operational only when there is unobstructed flow in the circulating system.

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate (GPM)	Turnover Capacity (In Gallons)			D.E. Required (Lbs.)	Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour			
QUAD D.E. FILTERS									
188592	Quad D.E. 60	60	120	57,600	72,000	86,400	6.0	1	70
188593	Quad D.E. 80	80	160	76,800	96,000	115,200	8.0	1	80
188594	Quad D.E. 100	100	160	76,800	96,000	115,200	10.0	1	90
QUAD D.E. VALVE OPTIONS ¹									
261173	1-1/2 in. MPV, for Triton and Quad D.E. filters (SM 10-3)							1	3
261049	2 in. HiFlow valve, no plumbing							1	11
261050	2 in. HiFlow w/ plumbing, for Triton and Quad D.E. filters							1	10
261055	2 in. MPV, for Triton and Quad D.E. filters (SM 20-3)							1	5
263064	Push pull valve, 7-1/2 in. Center, Almond PVC							1	4
270100	Union Kit, 2 in. I.D. (For no valve assembly)							1	1
274426	Adapter Kit, 2-1/2 in. x 2 in.							1	1
263080	Valve for D.E., Inlet port on bottom, Pentair 2 in. unions glued on XF Valve							1	12

¹ Valves must be purchased separately.

Dimensions and Performance



**Certified to
NSF/ANSI Standard 50**

Product	A Dim.	B Dim.
188592	43"	62"
188593	49"	68"
188594	56"	74"

Note: Actual system flow will depend on plumbing size and other system components.

Note: Pentair does not recommend flow rates above 150 GPM.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).

SEE PAGE 331 FOR REPLACEMENT PARTS

SYSTEM:2™ MODULAR D.E. FILTERS

PLDE SERIES FILTERS



TRADEGRADE

Featured Highlights

- Typical Installations – Inground pools and inground hot tubs
- Quality Construction – Durable two-piece tank housing constructed of rugged ABS thermoplastic to ensure a long-lasting tank life
- Easy Access – Posi-Ring Locking Ring provides easy access to tank internals
- Innovative Design – The innovative, balanced-flow design – first introduced with the System 3 Modular Media filter is available in the smaller System:2 filter.
- The small diameter footprint makes the System:2 filter a great fit for new and retrofit installations
- Modular Filter Tanks – Allows for quick change of filter medias without changing the tank plumbing



System:2 Modular D.E. Filters
PLDE Series

Sta-Rite delivers the benefits of D.E. filtration in a variation of their proven modular media technology. A single replaceable grid delivers improved water quality without the complex workings of other D.E. filters. This innovative one-piece design is fully backwashable and can be plumbed with or without a backwash valve. 2 in. union valves are included for installations electing not to use a backwash valve. For deep-down cleaning, simply remove the filter lid and hose off in place. No more hassle of tearing down the grid assembly for cleaning and servicing. Contemporary style and matte black finish looks attractive in any pool setting.

Ordering Information

Product	Effective Filter Area (Sq. Ft.)	Flow Rated ¹ at 1–2 GPM (per Sq. Ft.)	Turnover Capacity (Gallons) (Flow Rate x 60 x Hours)			Tank Port Size	D.E. ² Required (Lbs.)	Carton Wt. (Lbs.)
			6 Hour	8 Hour	10 Hour			
SYSTEM:2 MODULAR D.E. FILTER - PLDE SERIES								
PLDE48	48	48–96	17–34,000	23–46,000	29–57,600	2 in.	7.2	46
PLDE VALVE OPTIONS ³								
18201-0300	ABS 6-Position Valve with Union Connections – 2 in. Valve Port							8
263053	VLV Push Pull, 7.81 in. center							12
262509	Valve with filter inlet port on top, no fittings, only valve							12

¹ Based on NSF recommended flow rate for commercial at 1–2 GPM per square foot.

² Do not use more D.E. than shown here. Mixed results with D.E. alternatives.

³ Valves must be purchased separately.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Pool/spa (bather) applications, maximum operating water temperature (internal filter) 104°F (40°C).

CALIFORNIA PROPOSITION 65 WARNING

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SYSTEM:2™ MODULAR D.E. FILTERS (CONT'D)

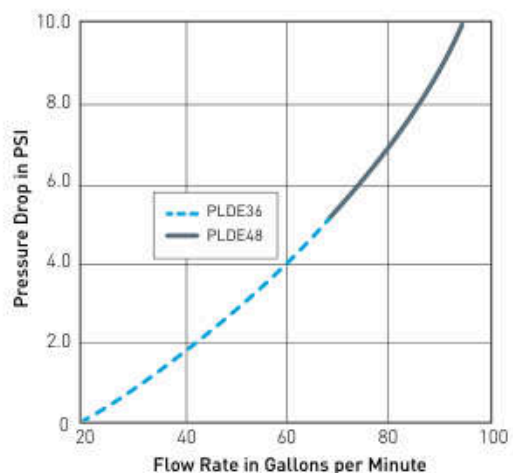
PLDE SERIES FILTERS

Ordering Information

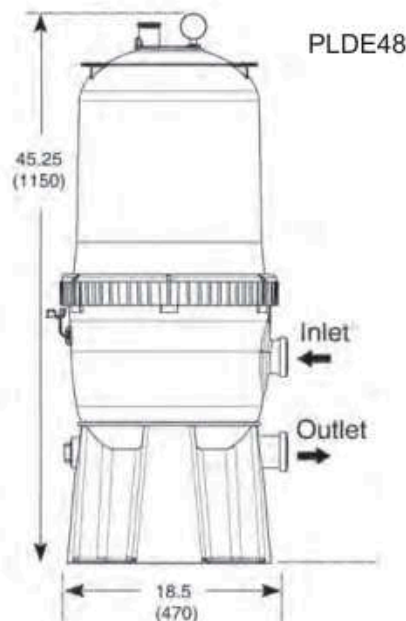
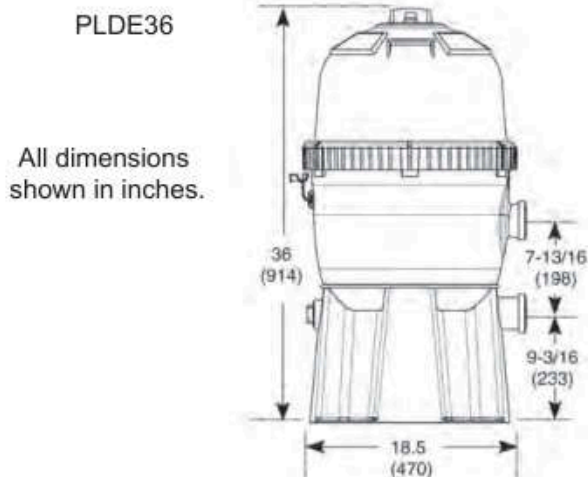
Product	Description	Carton Weight (Lbs.)
ACCESSORIES FOR SYSTEM:2 MODULAR D.E. FILTER - PLDE SERIES		
27002-0036S	36 sq. ft. Replacement Module for PLD50, PLDE36	10
27002-0048S	48 sq. ft. Replacement Module for PLDE48	11
PKG 188Z	2 in. Union Half x 2 in. Slip - Package of 2	1

Dimensions and Performance

Product	For Pools Up To (Gal.) 8 Hr. Turnover	Filter Area Sq. Ft.	Original Flow Rate (GPM)	D.E. Required (Lbs.)
PLDE SERIES FILTER PERFORMANCES				
PLDE36	35,000	36	54	5.4
PLDE48	46,000	48	72	7.2



**Certified to
NSF/ANSI Standard 50**



SYSTEM:3® MODULAR D.E. FILTERS

SMD SERIES FILTERS



TRADEGRADE

Featured Highlights

- Typical Installations – Inground pools, inground hot tubs, and water features
- Quality Construction – Durable two-piece tank housing constructed of Dura-Glas™, Sta-Rite's glass-reinforced composite resin
- Easy Access – Posi-Lok™ Clamps provides easy access to tank internals
- Modular Filter Tanks – Allows for quick change of filter medias without changing the tank
- Low Maintenance – Easy backwash capabilities means less manual cleaning of the grids
- Dual Drain Plugs – Side plug assembly includes 1-1/2 in. NPT port for direct discharge plumbing
- Sleek Looks – Contemporary style and matte black finish looks attractive in any pool setting



System:3 Modular D.E. Filters
SMD Series

Sta-Rite is proud to bring you the proven technology of System:3 Modular Media into the world of D.E. With balanced flow and integral manifold design, the System:3 Modular D.E. filter brings pool filtration to new heights. Available in 2 sizes, 60 and 72 sq. ft., System:3 Modular Media D.E. filtration will bring years of sparkling water to your customer's pool or spa. For cleaning, simply remove filter lid and hose off in place. No more hassle of tearing down the grid assembly for cleaning and servicing. The balanced flow design allows for a constant D.E. cake on the entire module, assuring full optimization of the module and longer cycles between cleanings.

Ordering Information

Product	Effective Filter Area (Sq. Ft.)	Flow Rated ¹ at 1-2 GPM (per Sq. Ft.)	Turnover Capacity (Gallons) (Flow Rate x 60 x Hours)			Tank Port Size	D.E. Required (Lbs.)	Carton Wt. (Lbs.)
			6 Hour	8 Hour	10 Hour			
SYSTEM:3 MODULAR D.E. FILTERS - SMD SERIES								
S7MD60	60	60-120	21-32,400	28-43,200	36-54,000	2 in.	9	115
S7MD72	72	72-144	25-38,880	34-51,800	43-64,800	2 in.	11	117
SMD SERIES VALVE OPTIONS								
18201-0300	ABS 6-Position Valve with Union Connections – 2 in. Port Valve							8
263053	VLV Push Pull, 7.81 in. center							12
ACCESSORIES FOR SYSTEM:3 MODULAR D.E. FILTER - SMD SERIES								
25023-0160S	60 sq. ft. Replacement D.E. Element							20
25023-0172S	72 sq. ft. Replacement D.E. Element							21
PKG 188Z	Union x 2 in. Slip Adapter – Pkg. of 2							1
PKG 189	Union x 2 in. FPT Adapter – Pkg. of 2							1

¹ Based on NSF recommended flow rate for commercial at 1-2 GPM per square foot.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Maximum operating water temperature (internal filter) 104°F (40°C).

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SEE PAGE 331 FOR REPLACEMENT PARTS

D.E. SEPARATION TANK 100



Separation Tank 100

Featured Highlights

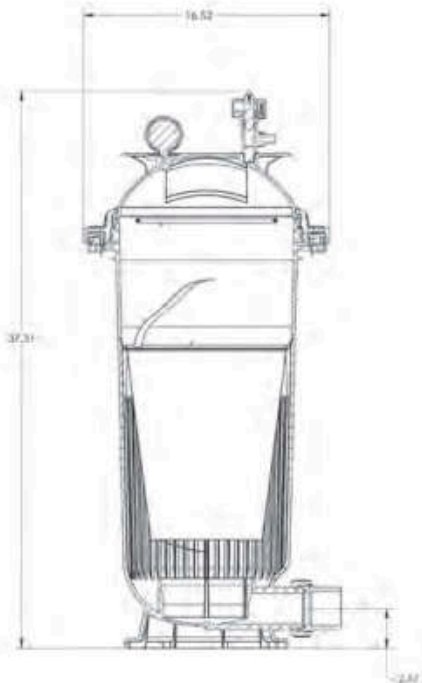
Quarter turn locking-ring provides quick and easy access for removing debris bag. Offers 2 x 2-1/2 inch unionized fittings. Debris bag holds up to 10 lbs of D.E.

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Ordering Information

Product	Pipe For Filters	Connections	Carton Wt. (Lbs.)
D.E. SEPARATION TANK			
300005	100 sq. ft.	2 x 2-1/2 in. SLIP	30

Dimensions and Performance



SECTION A-A

SEE PAGE 331 FOR REPLACEMENT PARTS

SAND DOLLAR® TOP MOUNT FILTER

THERMOPLASTIC TANK WITH CLAMP STYLE MULTIPORT VALVE

TRADEGRADE

Featured Highlights

- Six-position, top-mounted multiport valve
- Combination water and sand drain makes servicing and winterizing fast and easy

The one piece Sand Dollar filter features a clamp style, six-position multiport valve. Special lateral design provides flow characteristics and extended filter cycles to aid economical operation.

Max water temperature for Sand Dollar 95° F.

SD80
with 2 in. valve



Sand Dollar Top Mount Filter

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Max. Pressure (PSI)	Flow Rate (GPM)	Turnover Capacity (In Gallons)			All Sand Required (Lbs.)	Carton Qty.	Carton Wt. (Lbs.)
					8 Hour	10 Hour	12 Hour			
SAND DOLLAR FILTERS										
145322	SD 60	2.3	40	60	28,800	36,000	43,200	250	1	28
145367	SD 70	3.15	50	70	33,600	42,000	54,000	300	1	58
145333	SD80	3.5	50	75	36,000	45,000	54,000	350	1	76
145386*	SD80 2 in.	3.5	50	75	36,000	45,000	54,000	350	1	76

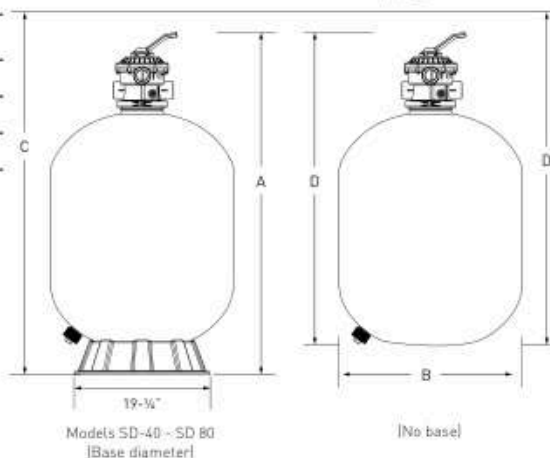
* with 2 in. valve

Dimensions and Performance

DIMENSION TABLE

Model	A DIM.	B DIM.	C DIM.	D DIM.	E DIM.
SD 60	43-3/4 in.	22-1/2 in.	52-1/2 in.	40-3/4 in.	49-1/4 in.
SD 70	46-1/4 in.	24 in.	57 in.	43-1/4 in.	53-3/4 in.
SD 80	48-3/4 in.	26 in.	65-3/4 in.	45-5/8 in.	62-1/2 in.

Clearance to remove valve and internal piping



Models SD-40 - SD 80
[Base diameter]

[No base]

CALIFORNIA PROPOSITION 65 WARNING

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TAGELUS® TOP MOUNT FILTER

FIBERGLASS TANK WITH MULTIPORT VALVE, CLAMP STYLE

TRADEGRADE



TA60D
with 2 in. valve

Tagelus Top Mount Filter
(Unions sold separately)

Featured Highlights

- Special lateral design provides flow characteristics and extended filter cycles to aid economical operation
- Maximum Operating Pressure 50 psi
- Combination water and sand drain makes servicing and winterizing fast and easy
- 40 and 60D models standard with plastic clamp

Our process creates a one-piece, fiberglass reinforced tank with strength and durability. Tagelus filters are equipped with a six-position, clamp style, top-mounted multiport valve.

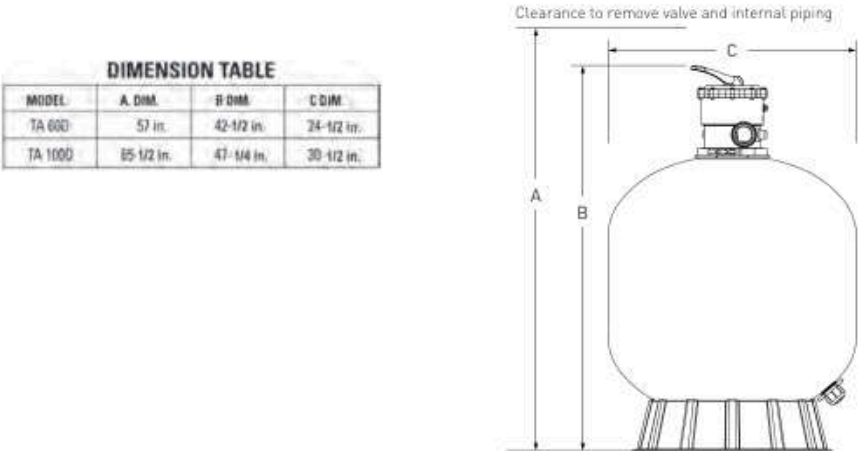
Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate (GPM)	Turnover Capacity (In Gallons)			All Sand Required (Lbs.)	Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour			
TAGELUS FILTERS									
145241	TA 60D	3.1	60	28,800	36,000	43,200	325	1	38
145240	TA 100D	4.9	100	48,000	60,000	72,000	600	1	78
145385*	TA60D(2)	3.1	60	28,800	36,000	43,200	325	1	38

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Maximum operating water temperature (internal filter) 104°F (40°C).

* with 2 in. valve

Dimensions and Performance



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145241

SEE PAGE 331 FOR REPLACEMENT PARTS

TRITON® II SIDE MOUNT FILTERS

FIBERGLASS SAND FILTER WITHOUT VALVES

TRADEGRADE

Featured Highlights

- Heavy-duty closure provides easy inspection, and features an easy-to-read pressure gauge with air relief valve
- Swing-away diffuser allows instant access to sand and all internal parts
- All internal parts are threaded for ease of service
- Internal air bleed
- Bulkhead connectors are threaded for easy installation and service
- Combination sand and water drain makes servicing and winterizing fast and easy
- Maximum Operating Pressure 50 psi



Triton II Side Mount Filter
(Unions not included)

The original and still the industry standard. Our process creates a one-piece, fiberglass reinforced tank with UV resistant surface finish for years of strength and durability. This method locks in fiberglass, preventing fibers from “blooming” under harsh conditions.

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate (GPM Comm)	Turnover Capacity (In Gal.)			Filter Media		All Sand Req'd (Lbs.)	Ctn Qty.	Ctn Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour	Pea Gravel Req'd (Lbs.)	Sand Req'd (Lbs.)			
TRITON II SAND FILTERS											
140264	TR 60	3.14	63	30,240	37,800	45,360	75	250	325	1	40
140210	TR 100	4.91	74	35,520	44,400	53,280	150	450	600	1	65
140243	TR 140	7.06	106	50,880	63,600	76,320	275	650	925	1	75
TRITON II VALVE OPTIONS ¹											
261173	1-1/2 in. MPV, for sand filters (SM 10-3)									1	6
261049	2 in. HiFlow valve, no plumbing									1	7
261050	2 in. HiFlow w/ plumbing, for sand filters									1	11
261055	2 in. MPV, for sand filters (SM 20-3)									1	10
263064	Push Pull 7-1/2 in. Center Valve, Almond PVC									1	5
263080	Valve for Sand and Quad D.E., inlet port on top, Pentair 2 in. unions glued on XF Valve									1	10

¹ Valves must be purchased separately.

Note: Operating Limits – maximum continual operating pressure of 50 PSI. Maximum operating water temperature (internal filter) 104°F (40°C).

SEE PAGE 331 FOR REPLACEMENT PARTS

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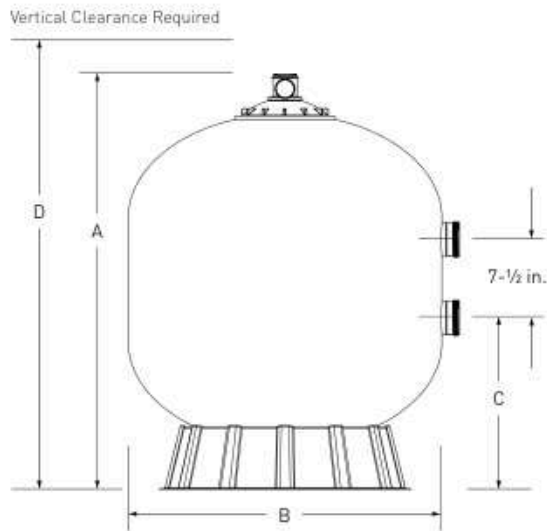
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TRITON® II SIDE MOUNT FILTERS (CONT'D)

FIBERGLASS SAND FILTER WITHOUT VALVES

Dimensions and Performance

Certified to
NSF/ANSI Standard 50



DIMENSION TABLE

MODEL	A DIM.	B DIM.	C DIM.	D DIM.
TR 60	35-1/2 in.	24-1/2 in.	13-5/8 in.	37-1/2 in.
TR 100	39-3/4 in.	30-1/2 in.	16-1/4 in.	41-3/4 in.
TR 140	45-1/4 in.	36-1/2 in.	18-3/4 in.	47-1/4 in.

CRISTAL-FLO™ II TOP-MOUNT FILTERS

HIGH RATE SAND FILTERS

Featured Highlights

- **Quality Construction** – Durable one-piece extra-thick molded polyethylene tank
- **6-Position Valve** – Allows you to perform all necessary water movement functions.
- **Large Drain Plug** – Large drain plug is easy to get at for removing and installing by hand or with tools if required
- **Sleek Looks** – Contemporary style with a textured black finish that provides great performance in all weather conditions
- **Innovative** - Integrated continuous High Flow™ Internal Air Relief *

* Integrated continuous High Flow internal air relief is operational only when there is unobstructed flow in the circulating system.



Cristal-Flo II
Top-Mount Filters



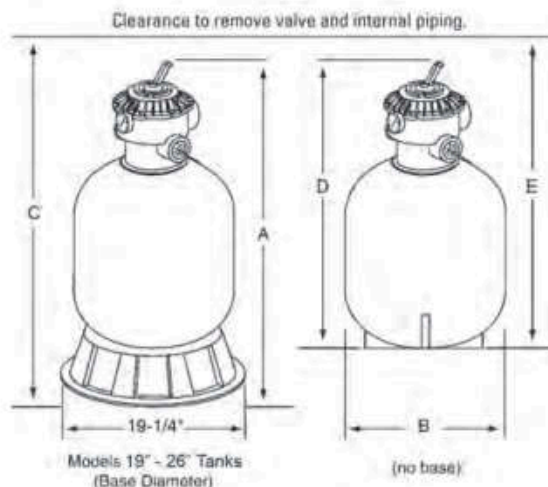
For residential inground or aboveground swimming pools requiring turnover through 54,000 gallons, at flow rates up to 20 GPM for 8 to 10 hours. Permanent media high rate sand filters in 16 in., 19 in., 22 in., 24 in. and 26 in. diameter models accommodate large and small pools, offering a combination of performance, durability, and ease of maintenance. Corrosion-resistant, one-piece, extra-thick molded polyethylene tank assures long service life. Top-mounted, corrosion-resistant multiport selector valve included. Also includes a convenient tank winterizing drain and continuous air relief system. Max Operating Temp 95°F.

Ordering Information

Product	Effective Filtration Area (Sq. Ft.)	Max. Pressure (PSI)	Flow Rate (GPM)	Turnover Capacity (In Gallons)			All Sand Required (Lbs.)	Carton Qty.	Carton Wt. (Lbs.)
				8 Hour	10 Hour	12 Hour			
CRISTAL-FLO II FILTERS									
145361	2.3	40	60	28,800	36,000	43,200	250	1	28
145362	3.15	50	70	33,600	42,000	54,000	300	1	58
145363	3.5	50	75	36,000	45,000	54,000	350	1	76
145387 ¹	3.5	50	75	36,000	45,000	54,000	350	1	76

¹ with 2 in. valve

Dimensions and Performance



DIMENSION TABLE

Model	A DIM.	B DIM.	C DIM.	D DIM.	E DIM.
145361	43-3/4 in.	22-1/2 in.	52-1/2 in.	40-3/4 in.	49-1/4 in.
145362	46-1/4 in.	24 in.	57 in.	43-1/4 in.	53-3/4 in.
145363	48-3/4 in.	26 in.	65-3/4 in.	45-5/8 in.	62-1/2 in.
145387	48-3/4 in.	26 in.	65-3/4 in.	45-5/8 in.	62-1/2 in.

CALIFORNIA PROPOSITION 65 WARNING

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 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

SEE PAGE 331 FOR REPLACEMENT PARTS

STARK™ SS SERIES FILTERS

HORIZONTAL SAND FILTRATION SYSTEMS



Featured Highlights

- All vessel models are NSF 50 certified from 5-20 gpm/sq.ft
- End-manways provide easy access for service and maintenance
- Schedule 80 Face Piping is fully assembled in our factory for ease of installation
- Stark valves and several control options make backwashing simple
- Unparalleled tank construction and exterior all-weather coating

The Stark SS Series Filter Systems are designed with ease of installation, maintenance, and minimal floor space in mind. Vessels are side-by-side, with manway access on the ends and all piping above the vessel(s). All piping ships fully solvent-welded and pre-assembled to ensure fit. 100 psi vessel pressure rating.

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Ordering Information

CAPACITY INFORMATION												
# Tanks	System Number	Tank Size	Filtration Area (Sq. Ft.)	Flow (GPM)		Backwash Valve Size/Type	'W'	'L'	'Hs'	Total Media (cu ft)	Operating Weight (lbs.)	Shipping Weight (lbs.)
				12 gpm/sf	15 gpm/sf							
1	RS1-60-04	36" x 60"	13.5	162	203	4"	38"	63"	68"	15.5	4,600	845
	RS1-72-04	36" x 72"	17.2	206	258	4"	38"	75"	68"	19.0	5,500	915
	SS1-48-04	42" x 48"	12.8	154	192	4"	44"	51"	74"	16.5	4,900	805
	SS1-72-06	42" x 72"	20.0	240	300	6"	44"	75"	86"	26.0	7,500	1,105
	SS1-96-06	42" x 96"	27.0	324	405	6"	44"	99"	86"	36.0	9,800	1,240
2	RS2-60-06	36" x 60"	27.0	324	405	4"	77"	63"	70"	31.0	9,400	1,650
	RS2-72-06	36" x 72"	34.4	413	516	4"	77"	75"	70"	38.0	11,000	1,830
	SS2-48-06	42" x 48"	25.6	307	384	4"	90"	51"	76"	33.0	10,000	1,650
	SS2-72-06	42" x 72"	40.0	480	600	6"	90"	75"	87"	52.0	14,800	2,060
	SS2-96-06	42" x 96"	54.0	648	810	6"	90"	99"	87"	72.0	19,400	2,380
3	RS3-60-06	36" x 60"	40.5	486	608	4"	116"	63"	70"	46.5	14,200	2,420
	RS3-72-06	36" x 72"	51.6	619	774	4"	116"	75"	70"	57.0	16,800	2,670
	SS3-48-06	42" x 48"	38.4	648	576	4"	136"	51"	76"	49.5	14,900	2,420
	SS3-72-08	42" x 72"	60.0	720	900	6"	136"	75"	88"	78.0	22,400	3,140
	SS3-96-08	42" x 96"	81.0	972	1215	6"	136"	99"	88"	108.0	29,400	3,620
4	RS4-60-06	36" x 60"	54.0	648	810	4"	155"	63"	70"	62.0	18,900	3,200
	RS4-72-08	36" x 72"	68.8	826	1032	4"	155"	75"	76"	76.0	22,300	3,560
	SS4-48-06	42" x 48"	51.2	614	768	4"	182"	51"	76"	66.0	19,900	3,200
	SS4-72-08	42" x 72"	80.0	960	1200	6"	182"	75"	88"	104.0	30,200	4,470
	SS4-96-10	42" x 96"	108.0	1296	1620	6"	182"	99"	88"	144.0	39,900	5,145
5	SS5-72-10	42" x 72"	100.0	1200	1500	6"	229"	75"	88"	130.0	38,400	5,650
	SS5-96-10	42" x 96"	135.0	1620	2025	6"	229"	99"	88"	180.0	49,900	6,450
6	SS6-72-10	42" x 72"	120.0	1440	1800	6"	275"	75"	88"	156.0	46,000	6,800
	SS6-96-12	42" x 96"	162.0	1944	2430	6"	275"	99"	97"	216.0	60,800	7,900

SEE PAGE 331 FOR REPLACEMENT PARTS

STARK™ SS SERIES FILTERS (CONT'D)

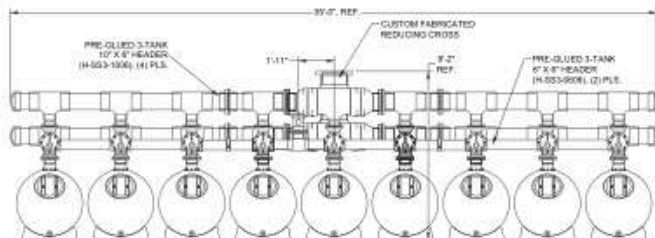
HORIZONTAL SAND FILTRATION SYSTEMS

Dimensions and Performance



Shell & Winding: Robust Dual-Wall Construction for piece of mind and long service life. Entire vessel including domes is wound on a computer-controlled, multi-axis machine.

Custom Systems Available for your Application.



SS Series Systems Include:

- Manway viewport standard on all Stark tanks
- Stark backwash valves (1 per tank)
- Pre-glued piping utilizing grooved couplings
- Stark diaphragm-style priority valve (on dual-tank systems)

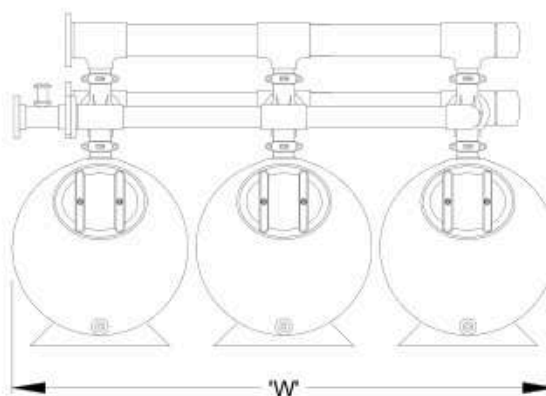
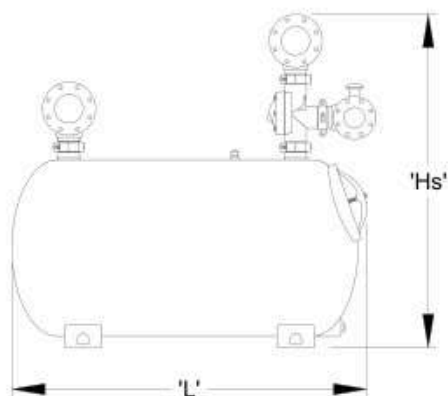
With Fully Automatic (CA100) Control Option

- Effluent Flow Sensor/Saddle
- Temperature Probe

Additional Adders

- Pressure Booster System (PBS01)
- Manual or Motorized Butterfly backwash
- Throttling valve for 3+ tank systems
- Advanced backwash controls

**Certified to
NSF/ANSI Standard 50**



SS Series System Numbering

36" and 42" Dia. Vessels

Influent / Effluent Connection Size

Backwash Control: A = Auto (CA100),
M = Manual (CM200), S = Semi (CS400)

SS3-72A-06

↑ Tank Length
↑ # Tanks
↑ Tank Style (End-Manway)
↑ Tank Diameter, R = 36", S = 42"

Notes:

1. Standard header sizing shown is based on 10 fps max. at 15 gpm per sq. ft.
2. For more dimensional detail, consult the appropriate Cut Sheet in our Design Manual.
3. For special requirements including non-standard header sizes / locations and systems consisting of more vessels than shown, please contact our Applications Engineering at PoolApplicationRFQ@pentair.com.

CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 331 FOR REPLACEMENT PARTS

STARK™ S SERIES FILTERS

HORIZONTAL SAND FILTRATION SYSTEMS



SB2-144M-08ST



SA2-144M-08

Featured Highlights

- All vessel models are NSF 50 certified from 5-20 gpm/sq.ft
- Solid composite construction - does not employ a bladder
- Vessels can be stacked to minimize footprint. Designed for Seismic Zone 4 loading with additional supports or braces
- Vessels feature all-weather exterior coating with UV inhibitors
- Several backwash control options available
- Multiple influent and effluent pipe locations available - A, B and C style

S Series Systems include: Manway with Viewport standard on all Stark Tanks; Stark backwash valves (1 per tanks); Stark diaphragm-style priority valve (on dual-tank systems).

Additional Adders: Pressure Booster System (PBS01); Manual or Motorized Butterfly Backwash; Throttling Valve for 3+ tank systems; Advanced backwash controls.

For use in commercial pool, water park, and many aquarium applications. Standard systems accommodate flows from 135 to 2,500 GPM - custom systems accommodate unlimited flows.

All Stark S Series vessels are corrosion-proof, composite vessels. Systems are available with 100 psi rated filament-wound vessels. All vessels are 42" diameter to offer a great combination of cost and effectiveness for recreational water. Stark Diaphragm Valves and Controls are Standard; butterfly-valve options (including linked valves) are also available.

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Ordering Information

CAPACITY INFORMATION (INDEPENDENT OF STYLE / CONFIGURATION)										DIMENSIONS - SIDE-BY-SIDE			
# Tanks	General System Number	Tank Size	Filtration Area (Sq. Ft.)	Flow (GPM) 12 gpm/sf	Flow (GPM) 15 gpm/sf	Backwash Valve Size/Type	Total Media (cu ft)	Operating Weight (lbs.)	Shipping Weight (lbs.)	Descriptive System Number	Single-Tank and Side-by-Side Systems		
											'W'	'L'	'Hs'
1	S1-48	42" x 48"	12.8	154	192	4"	16.5	5,280	870	SC1-48-04	44"	82"	47"
	S1-72	42" x 72"	20.0	240	300	6"	26.0	7,920	1,110	SA1-72-06	44"	107"	67"
	S1-96	42" x 96"	27.0	324	405	6"	36.0	10,560	1,350	SA1-96-06	44"	122"	67"
	S1-120	42" x 120"	35.0	420	525	6"	45.5	13,200	1,590	SA1-120-06	44"	146"	67"
	S1-144	42" x 144"	41.0	492	615	6"	55.5	15,840	1,830	SA1-144-06	44"	170"	67"
2	S2-48	42" x 48"	25.6	307	384	4"	33.0	10,560	1,740	SC2-48-06	96"	80"	56"
	S2-72	42" x 72"	40.0	480	600	6"	52.0	15,840	2,220	SA2-72-06	99"	92"	86"
	S2-96	42" x 96"	54.0	648	810	6"	72.0	21,120	2,700	SA2-96-06	99"	116"	86"
	S2-120	42" x 120"	70.0	840	1050	6"	91.0	26,400	3,180	SA2-120-08	110"	144"	91"
	S2-144	42" x 144"	82.0	984	1230	6"	111.0	31,680	3,660	SA2-144-08	110"	168"	91"
3	S3-48	42" x 48"	38.4	461	576	4"	49.5	15,840	2,610	SC3-48-06	152"	80"	56"
	S3-72	42" x 72"	60.0	720	900	6"	78.0	23,760	3,330	SA3-72-08	152"	94"	91"
	S3-96	42" x 96"	81.0	984	1215	6"	108.0	31,680	4,050	SA3-96-08	152"	117"	91"
	S3-120	42" x 120"	105.0	1260	1575	6"	136.5	39,600	4,770	SA3-120-10	152"	138"	96"
	S3-144	42" x 144"	123.0	1476	1845	6"	166.5	47,520	5,490	SA3-144-10	152"	162"	96"
4	S4-48	42" x 48"	51.2	614	768	4"	66.0	21,120	3,480	SC4-48-06	200"	80"	56"
	S4-72	42" x 72"	80.0	960	1200	6"	104.0	31,680	4,440	SA4-72-08	200"	94"	91"
	S4-96	42" x 96"	108.0	1296	1620	6"	144.0	42,240	5,400	SA4-96-10	200"	118"	96"
	S4-120	42" x 120"	140.0	1680	2100	6"	182.0	52,800	6,360	SA4-120-10	200"	142"	96"
	S4-144	42" x 144"	164.0	1968	2460	6"	222.0	63,360	7,320	SA4-144-12	200"	168"	100"

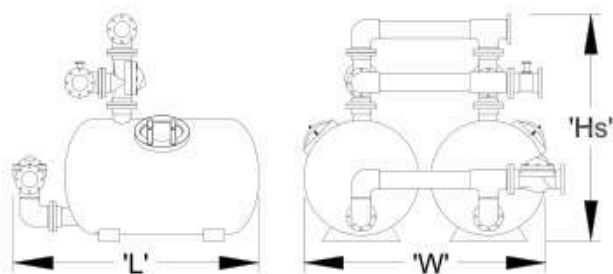
SEE PAGE 331 FOR REPLACEMENT PARTS

STARK™ S SERIES FILTERS (CONT'D)

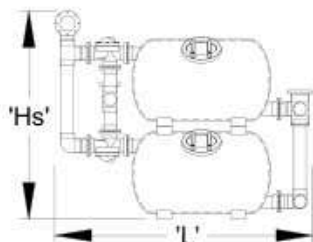
HORIZONTAL SAND FILTRATION SYSTEMS

Dimensions and Performance

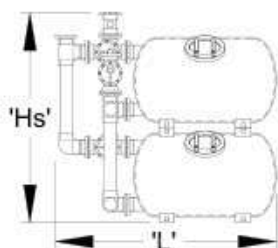
**Certified to
NSF/ANSI Standard 50**



A-Style Side-by-Side



B-Style Stacked



C-Style Stacked

Notes:

1. Standard header sizing shown is based on 10 fps max. at 15 gpm per sq. ft.
2. For more dimensional detail, consult the appropriate Cut Sheet in our Design Manual.
3. S-48 Vessels are not available in A Style. Dimensions above represent C Style.
4. For special requirements including non-standard header sizes / locations and systems consisting of more vessels than shown, please contact our Applications Engineering at PoolApplicationRFQ@pentair.com.

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DIMENSIONS - STACKED SYSTEMS						
Style	# Tanks	Descriptive System Number	Filtration Area (Sq. Ft.)	'W'	'L'	'Hs'
Stacked Systems - B-Style	2	SB2-48-06ST	25.6	44"	98"	107"
		SB2-72-06ST	40.0	44"	135"	109"
		SB2-96-06ST	54.0	44"	159"	109"
		SB2-120-08ST	70.0	44"	191"	109"
		SB2-144-08ST	82.0	44"	215"	109"
	4	SB4-48-06ST	51.2	92"	99"	108"
		SB4-72-08ST	80.0	92"	140"	111"
		SB4-96-10ST	108.0	100"	166"	119"
		SB4-120-10ST	140.0	100"	190"	119"
		SB4-144-12ST	164.0	104"	217"	122"
Stacked Systems - C-Style	2	SC2-48-06ST	25.6	50"	80"	107"
		SC2-72-06ST	40.0	50"	114"	109"
		SC2-96-06ST	54.0	50"	138"	109"
		SC2-120-08ST	70.0	53"	165"	109"
		SC2-144-08ST	82.0	53"	189"	109"
	4	SC4-48-06ST	51.2	92"	88"	108"
		SC4-72-08ST	80.0	92"	122"	111"
		SC4-96-10ST	108.0	100"	146"	119"
		SC4-120-10ST	140.0	100"	169"	119"
		SC4-144-12ST	164.0	104"	193"	122"

S Series System Numbering

Optional, Indicates Stacked System (B & C)
 Influent / Effluent Connection Size
 Backwash Control: A = Auto (CA100), M = Manual (CM200), S = Semi (CS400)
SC4-72A-08ST
 Tank Length
 # Tanks
 Tank Style (A, B, or C)
 Tank Diameter, S = 42"

STARK™ 5S SERIES FILTERS

HORIZONTAL SAND FILTRATION SYSTEMS



5S4-50-12
60" Dia. System

The 5S Series Filter Systems are designed as an extension to one of the industry leaders, SS Series Filtration Systems, with many of the same features including fully-assembled Schedule 80 Face Piping, with limited in field gluing. The 5S Series Filter Systems include the only 8" backwash valve in the industry, and air valve actuation for a smooth and quick valve movement.

Featured Highlights

- All vessel models are NSF certified
- Manway cover has integral viewport for internal filter observation
- Solid composite construction - does not employ a bladder
- Schedule 80 Face Piping is fully assembled
- Vessels feature all-weather exterior coating with UV inhibitors
- Influent manifold distribution to help prevent clogging
- Several backwash control options available
- Butterfly-valve options including linked tandem valves are also available

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Ordering Information

CAPACITY INFORMATION												
# Tanks	System	Internal Tank	Filtration Area	Flow (GPM)	Flow (GPM)	Backwash Valve				Total Media	Operating Weight	Shipping Weight
	Number	Size	(Sq. Ft.)	12 gpm/sf	15 gpm/sf	Size/Type	'W'	'L'	'Hs'	(cu ft)	(lbs.)	(lbs.)
1	5S1-30-06	60" X 78"	30.0	360	450	6"	62"	83"	106"	63.5	15,000	2,000
	5S1-35-06	60" X 90"	35.0	420	525	6"	62"	95"	106"	74.3	17,000	2,300
	5S1-40-06	60" X 102"	40.0	480	600	6"	62"	107"	106"	85.4	20,000	2,600
	5S1-45-08	60" X 114"	45.0	540	675	8"	62"	119"	123"	96.4	23,000	2,900
	5S1-50-08	60" X 126"	50.0	600	750	8"	62"	131"	123"	107.4	25,000	3,200
2	5S2-30-08	60" X 78"	60.0	720	900	6"	128"	83"	111"	127.0	30,000	4,100
	5S2-35-08	60" X 90"	70.0	840	1,050	6"	128"	95"	111"	148.6	35,000	4,600
	5S2-40-08	60" X 102"	80.0	960	1,200	6"	128"	107"	111"	170.8	40,000	5,200
	5S2-45-08	60" X 114"	90.0	1,080	1,350	8"	128"	119"	127"	192.8	45,000	5,700
	5S2-50-10	60" X 126"	100.0	1,200	1,500	8"	128"	131"	133"	214.8	49,000	6,300
3	5S3-30-08	60" X 78"	90.0	1,080	1,350	6"	194"	83"	111"	190.5	45,000	6,100
	5S3-35-10	60" X 90"	105.0	1,260	1,575	6"	194"	95"	117"	222.9	53,000	6,900
	5S3-40-10	60" X 102"	120.0	1,200	1,800	6"	194"	107"	117"	256.2	60,000	7,800
	5S3-45-10	60" X 114"	135.0	1,620	2,025	8"	194"	119"	133"	289.2	68,000	8,600
	5S3-50-12	60" X 126"	150.0	1,800	2,250	8"	194"	131"	135"	322.2	75,000	9,500
4	5S4-30-10	60" X 78"	120.0	1,440	1,800	6"	260"	83"	117"	254.0	61,000	8,100
	5S4-35-10	60" X 90"	140.0	1,680	2,100	6"	260"	95"	117"	297.2	70,000	9,200
	5S4-40-12	60" X 102"	160.0	1,920	2,400	6"	260"	107"	119"	341.6	80,000	10,400
	5S4-45-12	60" X 114"	180.0	2,160	2,700	8"	260"	119"	135"	385.6	92,000	11,500
	5S4-50-12	60" X 126"	200.0	2,400	3,000	8"	260"	131"	135"	429.6	100,000	12,600

STARK™ 5S SERIES FILTERS (CONT'D)

HORIZONTAL SAND FILTRATION SYSTEMS

Dimensions and Performance



**Certified to
NSF/ANSI Standard 50**

5S Series Systems Include:

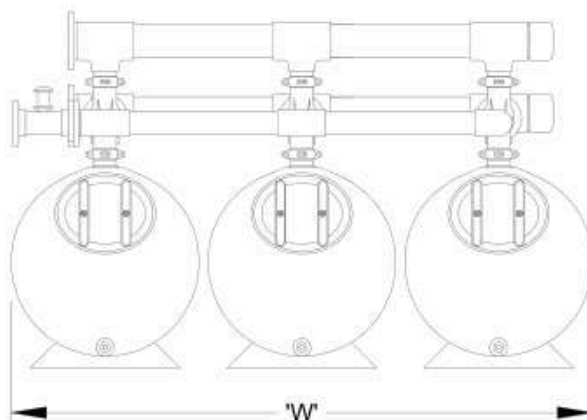
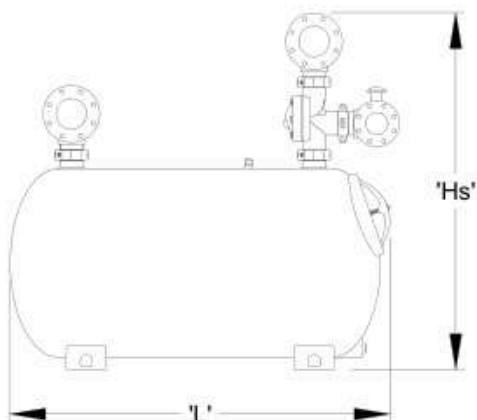
- Manway viewport standard on all Stark tanks
- Stark backwash valves (1 per tank)
- Pre-glued piping utilizing grooved couplings
- Stark diaphragm-style priority valve (on dual-tank systems)

With Fully Automatic (CA100) Control Option

- Effluent Flow Sensor/Saddle
- Temperature Probe

Additional Adders

- Pressure Booster System (PBS01)
- Manual or Motorized Butterfly backwash
- Throttling valve for 3+ tank systems
- Advanced backwash controls



5S Series System Numbering 60" Dia. Vessels

Influent / Effluent Connection Size

Backwash Control: A = Auto (CA100),
M = Manual (CM200), S = Semi (CS400)

5S3-50A-10

↑ Tank Filter Area
↑ # Tanks
↑ Tank Style (End-Manway)
↑ Tank Diameter, 5 = 60" Diameter

Notes:

1. Standard header sizing shown is based on 10 fps max. at 15 gpm per sq. ft.
2. For more dimensional detail, consult the appropriate Cut Sheet in our Design Manual.
3. For special requirements including non-standard header sizes / locations and systems consisting of more vessels than shown, please contact our Applications Engineering at PoolApplicationRFQ@pentair.com.

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SEE PAGE 331 FOR REPLACEMENT PARTS

STARK™ FILTERS

BACKWASH OPTIONS AND ADDITIONAL FEATURES



Multiport Gauge Panel

CM200 Manual Backwash Controller (Backwash Option "M")

This is the simplest Pentair option. No electronics or programming required; simply turn the knob to backwash each tank in the system.



CS 400 Semi-Auto Backwash Controller (Backwash Option "S")

This controller is programmable and controls every aspect of the backwash cycle once initiated. Backwash can be initiated three ways: by an operator with the touch of a button, by a signal from a master controller (such as the AK600), or by a signal from an optional differential pressure switch (CS400-DP). Stored backwash data and history, alarms, and calculated backwash cycle times are also features of the CS400 controller, as are relays for communication with the heater, pump and Acu Drive.



CA 100 Automatic Backwash Controller (Backwash Option "A")

This is a comprehensive backwash controller and can be readily reprogrammed to initiate backwash automatically based on differential pressure (integral pressure transducers are standard), time (internal seven-day clock with battery back-up is standard), flow (with optional flow sensor), or any combination of the above. The controller has real-time display of operation mode, filter flow rate, and water temperature (with optional temperature probe). Also, includes Energy Saver Mode for simple On/Off pump scheduling and various interlocks and relays to communicate with other equipment (pump, heater, Acu Drive).



2" Threaded Laterals

Commercial Lateral

2" NPT injection molded ABS with "V" groove slots and reinforcing ribs for best performance and service life. Also used on THS Series Filters.

Manway Viewport

Standard on all Stark Filters.



Butterfly Valve Systems

Tandem Butterfly Valve Configurations (Backwash Option TM; Single Tank Systems - each Stark backwash valve is replaced by a linked pair of butterfly valves.

Optional Pressure Booster System (PBS01)

Provides consistent valve-actuation where city water pressure is unreliable.



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STARK™ AQ SERIES™ FILTERS

LARGE DIAMETER SYSTEMS & VESSELS

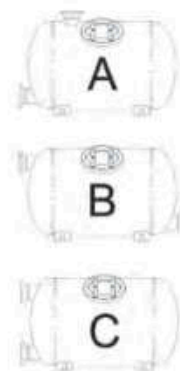
Stark AQ Series Filters

48" and 60" Diameter Stackable Horizontal Filters are available as complete filtration systems. The Stark AQ Series Filters are ideal for high-load or large flows of water such as water parks and public aquariums. NSF-50 certified. 75 psi pressure rating.

Vessel Model Number	Available Styles*	Filtration Area (sq ft)	Internal Diameter (feet)	Internal Length (feet)	Standard Flange Size (ANSI)
AQ SERIES VESSEL SIZING AND CAPACITY INFORMATION					
4X6	A, B, C	22	4.0	6.0	6"
4X8	A, B, C	30	4.0	8.0	6"
4X10	A, B, C	38	4.0	10.0	6"
4X12	A, B, C	46	4.0	12.0	8"
4X14	A, B, C	54	4.0	14.0	8"
5X8	A, B, C	37	5.0	8.0	8"
5X10	A, B, C	47	5.0	10.0	8"
5X12	A, B, C	57	5.0	12.0	8"
5X14	A, B, C	67	5.0	14.0	8"
5X16	A, B, C	77	5.0	16.0	8"



**Certified to
NSF/ANSI Standard 50**



Stark AQ Series
Sand Filter

CALIFORNIA PROPOSITION 65 WARNING
 ⚠️ **WARNING:** Cancer and Reproductive Harm.
 ⚠️ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.
 ⚠️ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

*Styles B and C are stackable. All are available with the manway on the other side (reverse manway).

THS SERIES® HORIZONTAL SAND FILTER



THS Series Horizontal Sand Filter

Featured Highlights

- Five sizes to 27 sq. ft.
- Manway in front for easier access and smaller footprint
- Manway with Viewport Standard
- 6 in. flanged connections, 4 in. victaulic on the THS Series 3461
- Optional manual, semi-automatic, and automatic backwash systems for one and two tank systems
- Two backwash controllers to choose from
- Influent manifold distribution to prevent clogging
- NSF certified from 5–20 gpm/sq. ft.

The THS Series Filter is an NSF certified 50 psi rated tank with flow rates up to 535 gallons per minute. The filter shell is manufactured from a lasting composite laminate design that makes winding unnecessary. Vessels feature all-weather exterior coating with UV inhibitors.

Ordering Information

Product	Model	Description	Effective Filtration Area (Sq. Ft.)	Flow Rate (15 GPM/ Sq. Ft.)	6 Hour Turnover Capacity (In Gallons)	Filter Media		All Sand Required (Lbs.)	Carton Wt. (Lbs.)
						Pea Gravel Required (Lbs.)	Sand Required (Lbs.)		
THS SERIES HORIZONTAL FILTER									
143461	THS3461	THS 34 in. x 61 in.	13.5	203	73,080	300	1250	1550	550
143484	THS3484	THS 34 in. x 84 in.	19.0	285	102,600	600	1350	1950	610
144272	THS4272	THS 42 in. x 72 in.	19.7	295	106,200	500	2100	2600	650
144284	THS4284	THS 42 in. x 84 in.	23.2	348	125,280	600	2400	3000	725
144296	THS4296	THS 42 in. x 96 in.	26.7	400	144,000	700	2800	3500	800
CONTROLLERS (MUST USE WITH DIAPHRAGM VALVES MANIFOLD KITS)									
156400	Single THS manual controller 6 in. FP				CS400-01	CS400 backwash controller for single tank system			
156450	Dual THS manual controller 6 in. FP				CS400-02	CS400 backwash controller for dual tank system			
156850	Single THS CA100 autobackwash controller								



Multiport Gauge Panel

CM200 Manual Backwash Controller

This is the simplest Pentair option. No electronics or programming required. Simply turn the knob to backwash each tank in the system.



CS 400 Commercial Backwash Controller

This controller is programmable and controls every aspect of the backwash cycle once initiated. Backwash can be initiated three ways: by an operator with the touch of a button, by a signal from a master controller (such as the AK600), or by a signal from an optional differential pressure switch (CS400-DP). Stored backwash data and history, alarms, and calculated backwash cycle times are also features of the CS400 controller, as are relays for communication with the heater, pump and Acu Drive.

THS SERIES® HORIZONTAL SAND FILTER (CONT'D)

MANIFOLD KITS ⁷

155700	THS single tank manifold kit with butterfly valves ³
155720	THS dual tank manifold kit with butterfly valves ³
155701	THS single tank 6 in. FP kit with diaphragm valves ⁶
155721	THS dual 34 x 84 in. 6 in. FP kit with diaphragm valves ⁶
155730	THS dual 42 in. dia. 6 in FP Kit with diaphragm valves ⁶

MANIFOLD KITS FOR THS 34 X 61 ONLY ⁷

155702	Kit-THS3461, single tank manifold, with butterfly valve kit ³
155722	Kit-THS3461, dual tank manifold, with butterfly valve kit ³
155703	Kit-THS3461, single tank manifold, with diaphragm valve kit ⁶

ACCESSORIES

CS400DP	Mounted differential pressure switch ⁹
B4110	120v to 24v 100w transformer
B4221KIT	Gauge Panel Kit Influent/Effluent gauge

¹ One each per tank purchased if required.

² Adder Kit provides 6 in., SCH 80 manifold piping, fittings and hardware for the addition of a third THS Series filter of equal diameter only when #155720 Dual-Filter Butterfly Valve Face Piping Kit is used. Note: Using a 6 in. Schedule 80 plumbing kit with flows in excess of 812 GPM exceeds the maximum water velocity recommended in ANSI/NSPI-1 2003 Standard for Public Swimming Pools. For higher flows, summary calculations should be provided to show that the greater flow is possible with the pump and piping provided.

³ Does not require a purchase of a controller.

⁴ Only used with CA100 controller option.

⁵ Only available with CS400 controller.

⁶ Does require a purchase of a controller.

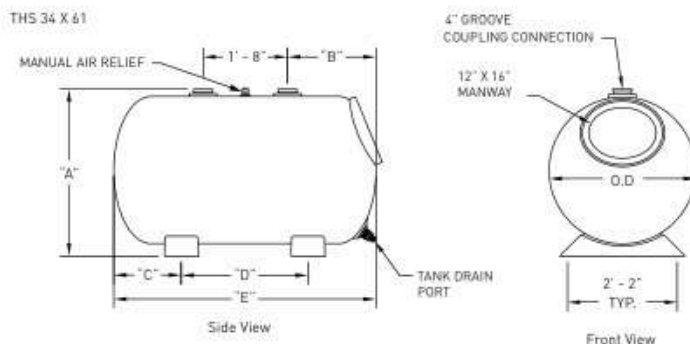
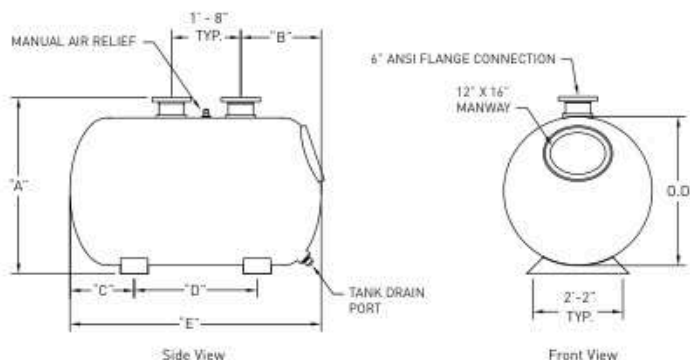
⁷ Does not include THS Tanks.

Certified to
NSF/ANSI Standard 50

THS SERIES SPECIFICATION CHART							
Tank Dimensions							
Model	"A" in.	"B" in.	"C" in.	"D" in.	"E" in.	"O.D." in.	WT
THS3461	39-1/2	21	16	30	62	35	550
THS3484	45	21-1/4	24-5/8	35-1/4	85	35	610
THS4272	52-1/4	23-1/4	18-7/8	35-1/4	73	43	650
THS4284	52-1/4	23-1/4	24-7/8	35-1/4	85	43	725
THS4296	52-1/4	23-1/4	30-7/8	35-1/4	97	43	800

NSF/ANSI 50 certified for 5-20 gpm/sq.ft.

Dimensions and Performance



* 4 in. victaulic on THS 3461 only

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This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There are no vertical margin lines, and the page is completely blank except for the lines themselves.

TRITON® C AND TRITON C-3

HIGH CAPACITY FIBERGLASS SIDE MOUNT SAND FILTER WITHOUT VALVES

Featured Highlights

- Maximum Operating Pressure 50 psi
- Full 2 in. Drain
- 8 in. opening for easy access to sand bed
- The Triton C-3 features standard 3 in. flange connections
- TR 100C-3 & TR 140C-3 models are available in black only

TRADEGRADE



TR 140C-3

TR 100 C

This filter series features multiple diverters for increased filtration rates in commercial applications up to 20 GPM/sq. ft.

Ordering Information

Product	Model	Effective Filtration Area (Sq. Ft.)	Flow Rate	Turnover Capacity (In Gal.) ²			Filter Media		All Sand Req'd (Lbs.)	Ctn Qty.	Ctn Wt. (Lbs.)
				6 Hour	8 Hour	10 Hour	Pea Gravel Req'd (Lbs.)	Sand Req'd (Lbs.)			
TRITON C SAND FILTERS											
140315	TR 100C- Almond	4.91	98	35,280	47,040	58,800	150	450	600	1	70
140316	TR 140C- Almond	7.06	141	50,760	67,680	84,600	275	650	925	1	82
TRITON C-3 SAND FILTERS											
140310	TR 100C-3-Black only	4.91	98	35,280	47,040	58,800	150	450	600	1	65
140342	TR 140C-3-Black only	7.06	141	50,760	67,680	84,600	275	650	925	1	82
TRITON C VALVE OPTIONS ¹											
261050	2 in. HiFlow w/ plumbing, for sand filters									1	11
261055	2 in. MPV, for sand filters (SM 20-3)									1	10
263080	FullFloXF Valve for Sand, inlet port on top, Pentair 2 in. unions glued on XF Valve										

¹ Valves must be purchased separately.

² Based on 20 gpm per sq. ft. Tanks are NSF/ANSI 50 certified for 5–20 gpm/sq.ft.

Dimensions and Performance

Certified to
NSF/ANSI Standard 50

DIMENSION TABLE

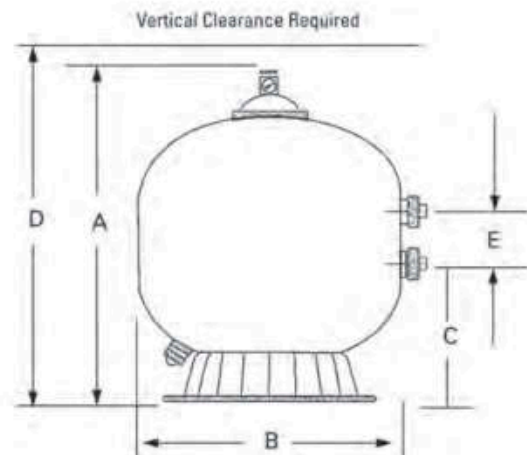
MODEL	A. DIM.	B. DIM.	C. DIM.	D. DIM.	E. DIM.
TR 100 C	38 3/4 in.	30 1/2 in.	16 1/2 in.	43 3/4 in.	7 1/2 in.
TR 140 C	45 1/4 in.	36 1/2 in.	18 1/4 in.	49 1/4 in.	7 1/2 in.
TR 100 C-3	39 3/4 in.	30 1/2 in.	16 1/16 in.	43 3/4 in.	7.72 in.
TR 140 C-3	45 1/4 in.	36 1/2 in.	18 1/2 in.	49 1/4 in.	7.72 in.

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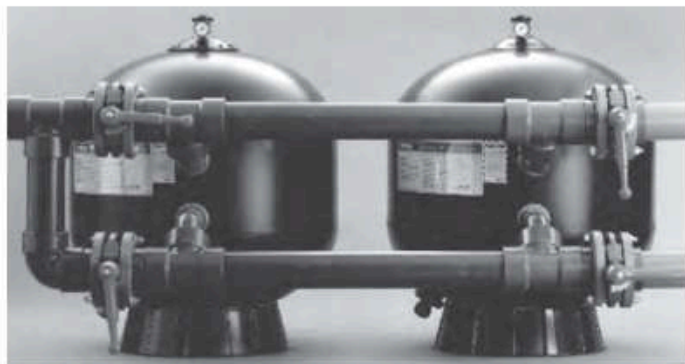
PS01710



SEE PAGE 331 FOR REPLACEMENT PARTS

SCH 40 & 80 FOR TR100C, TR140C, TR100C-3, & TR140C-3

TANDEM FILTER PIPING KITS FOR 2 & 3 IN. FILTERS



Tandem Filter Piping Kits for Triton TR100C, TR140C, TR100C-3, and TR140C-3 Sand Filters

These Tandem Filter Piping Kits are designed specifically for use with the Triton® TR100C, TR140C, Triton TR100C-3, and TR140C-3 Sand Filters to limit required space.

We are providing this additional service for convenient one-stop shopping. Pipe and filters are all you need.

Pipe is not included in kits.

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Ordering Information

Product	Model
For Plumbing Two TR100C or TR140C Filters	
146400	3 in. Two filter kit, SCH 40 (200 GPM)
146402	4 in. Two filter kit, SCH 40 (300 GPM)
For Plumbing Two TR100C-3 or TR140C-3 Filters	
147400	3 in. Two filter kit, SCH 40 (200 GPM)
147402	4 in. Two filter kit, SCH 40 (300 GPM)
147404	6 in. Two filter kit, SCH 40 (700 GPM)
147403	4 in. Two filter kit, SCH 80 (300 GPM)

Product	Model
Adder Kits for TR100C-3 and TR140C-3 Filters	
147406	4 in. Single filter kit, SCH 40
147408	6 in. Single filter kit, SCH 40

Note: All kits include hardware, fittings, gaskets.

Note: All kits include hardware, fittings, gaskets, and butterfly valves.

Filters	Filter Area Sq. Ft.	Manifold Pipe Dia.	Filter Rate Sq. Ft.		Turnover Capacity		
			15 GPM	20 GPM	6 Hours	8 Hours	10 Hours
TANDEM TRITON 140C FILTER INSTALLATION							
6 TR 140's	42.36	6 in.	635	—	228,600	304,800	381,000
		8 in.	—	847	304,920	406,560	508,200
7 TR 140's	49.42	6 in.	741	—	266,760	355,680	444,600
		8 in.	—	988	355,680	474,240	592,800
8 TR 140's	56.48	8 in.	847	—	304,920	406,560	508,200
		8 in.	—	1130	406,800	542,400	678,000

SCH 40 & 80 FOR TR100C, TR140C, TR100C-3, & TR140C-3 (CONT'D)

TANDEM FILTER PIPING KITS FOR 2 & 3 IN. FILTERS

Filters	Filter Area Sq. Ft.	Manifold Pipe Dia.	Filter Rate Sq. Ft.		Turnover Capacity		
			15 GPM	20 GPM	6 Hours	8 Hours	10 Hours
TANDEM TRITON TR100C AND TR100C-3 FILTER INSTALLATION							
2 TR 100's	9.82	3 in.	147	—	52,920	70,560	88,200
		4 in.	—	196	70,560	94,080	117,600
3 TR 100's	14.73	4 in.	221	—	79,560	106,080	132,600
		4 in.	—	295	106,200	141,600	177,000
4 TR 100's	19.64	4 in.	295	—	106,200	141,600	177,000
		5 in.	—	393	141,480	188,640	235,800
5 TR 100's	24.55	5 in.	368	—	132,480	176,640	220,800
		5 in.	—	491	176,760	235,680	294,600
TANDEM TRITON TR140C AND TR140C-3 FILTER INSTALLATION							
2 TR 140's	14.12	4 in.	212	—	76,320	101,760	127,200
		4 in.	—	282	101,520	135,360	169,200
3 TR 140's	21.18	4 in.	318	—	114,480	152,640	190,800
		5 in.	—	424	152,640	203,520	254,400
4 TR 140's	28.24	5 in.	424	—	152,640	203,520	254,400
		6 in.	—	565	203,040	270,720	338,400
5 TR 140's	35.30	5 in.	530	—	190,800	254,400	318,000
		6 in.	—	706	254,160	338,880	423,600

Dimensions and Performance

Two Filter System	A	B	C	D	E	F	G	H	I	J	K	Total Wt.
3 in.-TR100C	82-3/8 in.	17-15/16 in.	48 in. min.	18 in. min.	39-3/4 in.	15 in.	29-33/64 in.	8-5/8 in.	11-1/32 in.	51-13/16 in.	—	2300 lbs.
3 in.-TR140C	88-3/8 in.	17-15/16 in.	54 in. min.	18 in. min.	45-1/4 in.	18 in.	32-33/64 in.	8-5/8 in.	13-15/32 in.	57-13/16 in.	—	3200 lbs.
4 in.-TR140C	95-3/4 in.	19-35/64 in.	54 in. min.	18 in. min.	45-1/2 in.	18 in.	33-1/8 in.	9-15/16 in.	12-21/32 in.	59-11/64 in.	—	2300 lbs.
6 in.-TR140C *	111-3/4 in.	24-7/32 in.	54 in. min.	18 in. min.	45-1/2 in.	18 in.	35-3/8 in.	12-13/16 in.	10-21/64 in.	64-13/32 in.	64-53/64 in.	3550 lbs.

* 6 in. piping needs to be rotated upward as shown at 25° so handle will clear the floor.

FIGURE 4A

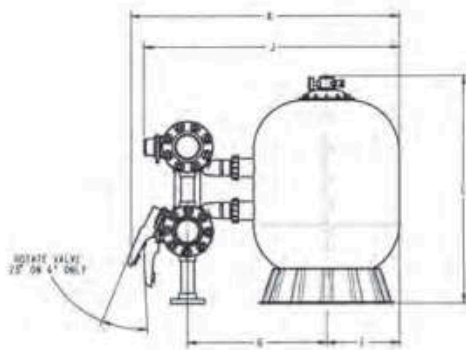
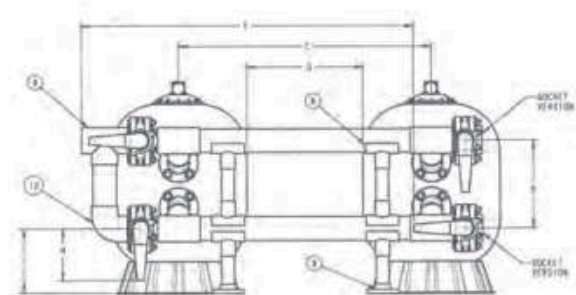


FIGURE 4B



SEE PAGE 331 FOR REPLACEMENT PARTS

PLUMBING KITS & ACCESSORIES



154566Z



542090



274725

Featured Highlights

- Unionized pump/filter plumbing kits and base
- Bulkhead Union Sets can connect D.E. and high-rate sand filters to any plumbing. The kit consists of two half unions with both 1-1/2 and 2 in. pipe connections.

Ordering Information

Product	Description	Carton Qty.	Carton Wt. (Lbs.)
UNIONS			
98960311	Bulkhead union kit, 1-1/2 in. & 2 in. for Eclipse Filters	1	1
TOOLS			
192019	Drain plug wrench ¹	1	1
ACCESSORIES AND KITS			
154566Z	2 in. Sight glass nipple, clear	1	1
271092Z	2 in. Threaded adapter kit, for installations without valve	1	1
271094	1-1/2 in. Threaded adapter kit, w/o valve, for installations without valve	1	1
271096	2 in. Threaded bulkhead adapter kit, for installations without valve	1	1
274725	Union check valve, 2 in. socket	1	1
274426Z	Adapter Union Replacement Kit, 2-1/2 in. x 2 in.	1	2
354570	1-1/2 in. Quick disconnect kit, for Regenerative D.E. Filter	1	1
542090	Sand Vac, empties a sand filter in 10 minutes for repair, refilling, or removal	1	3

¹ For use on FNS Plus, Nautilus Plus & Clean & Clear Plus filters.



354570
(now available in black)



271094, 271096,
271092Z

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RETRO-FIT & UPGRADE KITS

Ordering Information

Product	Description
NS KITS ¹	
181011	NS/PF35 spring clamp assembly

¹ For filters manufactured prior to 1991.

Product	Description
PF SAND KITS ¹	
181011	NS/PF35 spring clamp assembly
FILTER UPGRADES	
98209804	High flow manual air relief valve w/ instruction labels
59000400	High flow internal air relief kit upgrade for Titan manifold

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