Reticulated Filter Foam

This 1" thick foam is true fish grade, long life, reticulated foam with a pore size of 20 ppi (pores per inch). It contains no fire retardants or germicides (be careful with low cost, air filter foam, as it can be toxic). Sold in 2'x 6' sheets (rolled) only (equal to 1 ft3). Weighs 5 lbs.

\$77.85



Spawntex Spawning Mat

This unique product is asked for specifically by breeders of shiners, goldfish and similar shore spawning fish. Spawntex is one of the finest reusable spawning mat materials on the market today. Constructed of all natural coconut fibers with a latex binder on a polyester net backing. Its 11/2" thickness ensures more strength for easy cleaning and exceptional durability. Pond installation is easy. Cut the media to size, attach a wire mesh backing and place in the pond. Another method is to simply stake the mats along the pond bank. Spawntex is sold in 24" widths (SM2) and 18" widths (SM3) in full rolls 11 yards long.

	Thickness	Width	Length	
SM2R	1½″	24"	11 yds	\$155.40
SM3R	1½″	18"	11 yds	\$122.10



Blocksom Filter Material

This high quality 1" thick filter material is constructed of all natural coconut fibers and a latex binder on a polyester net backing. Its durability allows for frequent cleaning. Often used in garden pond filters. Sold in 24" widths by the linear yard or in full rolls of 12 yds..

SM1	24" x 36" (1 yard)	\$20.20
SM1R	24" x 12 yds Roll	\$179.00



Blue Bonded Filter Pads

Blue pond filter media pads

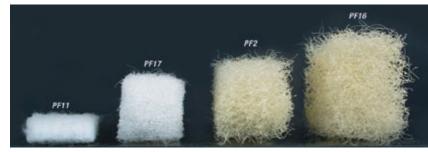
13" x 24" x 1" thick. Replacement filter media will fit most systems. Simply cut to fit small trickle filters, plate filters or for use in canister filters. Media does not contain any tactifiers. This media is fish safe.

\$7.60



Washable Filter Material (PF11, PF17, PF12, PF16)

Replace your worn out material or build your own filter with one of this bulk filter material. Conveniently sold by the foot, small coil or bulk roll. They are made of polyester and are washable for repeated use. Please note width and length of each part number.



Disposable Filter Media (PF8)

This fine polyester fiber material offers high quality at a low price. It will sustain one or two cleanings before disposal. With no fire retardants or dyes, it is safe for fish. Do not let the price fool you, it is a good product.

Enkamat®, Poly (PF12)

Very similar to our PF4 and PF5, but this product is made of polyethylene fibers so it costs less. It can be used as media for biofiltration, for soil erosion control, splash control, etc. PF12 has 0.025" diameter fibers bonded to a felt underlay. Not UV inhibited.

Carbon Filter Material (PF3)

The PF3 filter material features polyester fibers heavily coated with activated carbon to provide an ideal mechanical, chemical, and biological filtering media. It's a fine pore material suitable for clear water applications.

Enkamat®, Nylon (PF4/PF5)

Enkamat® is a matrix of semirigid nylon monofilaments fused at their intersections. This product is the best reusable egg laying material. Also useful for filter media support, biofiltration material, soil erosion control, etc. PF4 has 0.020" dia. fibers, PF5 has 0.025" dia. fibers.



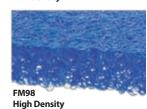
Matala Filtration Mats

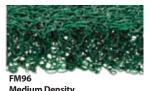
This filtration media is expensive, but definitely worth it for some applications! Made of rigid fiber compounds, it is used in many applications in the aquaculture and koi pond markets. It is excellent for removing solid wastes and, unlike other filter padding, totally resists compression! The solid fibers are very resistant to sludge build up and clogging, making cleaning easy. It also features a lot of surface area, so it is very good for biological filtration. Great for low pressure, gravity fed filters and skimmers, Matala® is positively buoyant and may require anchoring in submersed applications. Matala® is sold in 11/2" thick sheets.

		Sheet Size	Area (ft²/ft³)	(mm)	
FM97	Matala, Black	391"x 24"	62	0.090	\$73.00
FM97L	Matala, Black	48" x 39"	62	0.090	\$145.00
FM96	Matala, Green	39" x 24"	96	0.180	\$74.00
FM96L	Matala, Green	48" x 39"	96	0.180	\$148.00
FM98	Matala, Blue	39"x 24"	124	0.060	\$76.00
FM98L	Matala, Blue	48" x 39"	124	0.060	\$152.00
FM99	Matala, Grey	392" x 24"	170	0.045	\$87.00
FM99L	Matala, Grey	48" x 39"	170	0.045	\$173.00

Surface









Biofilm Carrier Elements

Successful biofiltration using moving bed technology requires the use of the right media. This media is ideal for moving bed biofilter applications. With a surface area of 259 ft²/ft³, this polyethylene biomedia is positively buoyant and self cleaning. This



proven geometric design provides an abundant amount of surface area for bacteria to colonize. In nitrifying applications, use aeration to continuously circulate the elements, while simultaneously oxygenating the water and stripping the CO₃. Robust bacteria colonization is essential to the nitrification process of converting ammonia to nitrite and ultimately nitrate. The self cleaning action allows for the exfoliation of the older, less active bacterial layer and eliminates the need for back

washing. The elements are 7 mm (5/16") long and 10 mm (7/16") in diameter and natural in colour. Sold by the cubic foot. Ship weight is 10 lbs/ft3

1 ft³ BF150♦ \$62.24 BF150B 1 m³ \$1,585.00









Filtration and Biofiltration

In the world of filtration, mechanical filtration and biofiltration are very distinct and separate entities, and they must be treated as such. Mechanical filtration is the removal of solid waste, whereas biofiltration is the biological process that converts toxic nitrogenous wastes to less toxic nitrate.

Solid waste is typically categorized by its size and specific gravity. Settleable solids are those solids which have a relatively high specific gravity compared to the water in which they exist. They will settle to the bottom. Suspended solids are those in a category that have a specific gravity the same as, or slightly higher than, the water. They tend to stay in suspension and will only "drop out" over a long period of time. Dissolved solids are those which actually become a part of the water. The dissolved solids are eliminated by reverse osmosis, anion and cation resins, activated carbon, etc.

One method of removing solid waste from a round fish tank is to use a double drain. It will direct the settled solids to a separate area from the main flow. The settled solids can be directed into a small clarifier, much smaller than one sized to handle the entire flow of recirculating water. The other drain takes the suspended solids along with the nitrogenous waste.

Suspended solids can be removed by several methods. One is the bead filter, which incorporates the use of small polyethylene beads that have a positive electrostatic charge. These beads have an affinity for the negatively charged suspended solids. As the particles pass these beads, they are "statically" drawn to them. When the beads are loaded with solids, it is time to backwash them.

Suspended solids can also be removed by mechanical means such as bag filters, drum filters and vegetative filters.

of autotrophic bacteria. These bacteria are naturally occurring and will ultimately colonize the biomedia in the biofilter as well as the tank and pipe walls. The speed of this process is dependent on temperature, pH, salinity, surface area, flow rate, etc.

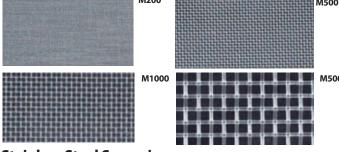
The autotrophic bacteria use oxygen in a two step process to first convert the toxic ammonia (NH, or NH, *) to nitrite (NO, *). Another strain of bacteria converts nitrite (NO₂) to nitrate (NO₃). Nitrate is much less toxic and typically tolerated by most cultured species until it reaches very high levels. Controlling nitrate is accomplished by diluting with clean water or by using a denitrification chamber that converts nitrate into nitrogen gas (this is an anaerobic process that uses a group of heterotrophic bacteria). A third method to keep nitrate levels in check is the use of plants. You can have a green water system (using algae), a vegetative filter or even use a hydroponic plant system to remove nitrate. Regardless of which type of filtering equipment you decide to use, the one thing to keep in mind is to stage the filtration. It is a common mistake to design a system that relies too heavily on a single filtering device to provide all of the filtering requirements of a recirculating system. By staging filtration components, the system will perform at or near its peak.

Biofiltration is the aerobic (with oxygen) breakdown of dissolved nitrogenous fish waste. The process is accomplished by two or more strains

Nylon Screening

Nylon screening material is an excellent choice for many aquaculture and laboratory uses, including filtration of unwanted organisms; brine shrimp culture; larval fish and clam culture; pipe screens, filter bags and nets. Nylon is resistant to bacteria, cleaners, acids and insects. This screening is 40" (one meter) wide and is sold by the yard length (1 yard = 36" = 91 cm). 1 linear yard = 9.7 ft² = 1.1 yd². Contains no UV

ii ii iibitoi 5.				
	Microns	Inches Between Strands	% Open Area	
M46	46	0.0016"	31	\$102.45
M55	55	0.0022"	29	\$59.25
M64	64	0.0025"	32	
M75	75	0.0029"	45	\$46.00
M105	105	0.0041"	36	\$38.00
M125	125	0.0049"	41	\$39.50
M150	150	0.0059"	51	\$35.70
M200	200	0.0079"	35	\$32.50
M250	250	0.0098"	37	\$30.50
M300	300	0.0118"	46	\$32.85
M335	335	0.0132"	46	\$27.45
M400	400	0.0157"	47	\$29.25
M500	500	0.0197"	49	\$29.10
M600	600	0.0236"	51	\$58.05
M670	670	0.0264"	53	\$43.65
M750	750	0.0295"	54	\$30.30
M800	800	0.0315"	55	\$35.70
M1000	1,000	0.0394"	58	\$29.55
M2000	2,000	0.0787"	53	\$58.05
M5000	5,000	0.1969"	72	\$64.50
		M200		



Stainless Steel Screening

304 stainless steel screening can be used for the same applications as nylon but offers better rigidity and durability. All stainless screening is 48" (121 cm) wide and sold in increments of 1' (30.4 cm). Each foot increment equals 4 ft² (0.37 m²).

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	Microns	Inches Between Strands	% Open Area	
MS105	105	0.0041"	37	\$39.60
MS125	125	0.0049"	31	\$38.10
MS180	180	0.008"	32	\$28.50
MS250	250	0.010"	30	\$31.20
MS500	500	0.020"	37	\$31.20
MS1000	1,000	0.039"	48	\$29.40

MS500

Bio Barrels

A polypropylene media available in three sizes. Remember the importance of void space with both heterotrophic fouling and degassing applications. All barrels are natural in colour. All are positive in buoyancy.



	Size	Surface Area	Min Order	
BF64A	1″	64 ft ² /ft ³	1 ft³	\$80.50
BF44A	1 ½"	44 ft ² /ft ³	1 ft³	\$62.25
BF33A	2"	33 ft ² /ft ³	1 ft ³	\$46.50

Styrofoam Bead

Styrofoam beads provide a ideal substrate for biological filtration.

This material not only provide a high surface area but is inexpensive enough that it can be replaced as needed so that no time is spent cleaning material. The buoyancy of Styrofoam enables a bottom draw from the filter with limited substrate lost. Sold in 16 ft³ box lined with a bag.



BEADS per 16 ft³ \$90.40

Spat Bags

These bags are very commonly used for collecting scallop larvae and as oyster nursery bags. They have knitted polyethylene mesh with a drawstring. SCB4 is used in heavy fouling conditions. Bags measure 15 3/4" x 311/2" (40 x 80 cm).

SCB1	0.75 mm	\$10.20
SCB2	1.50 mm	\$7.20
SCB3	3.0 mm	\$6.60
SCB4	2.7 mm	\$5.50



Media Bags

You will appreciate media bags after you have to clean or relocate your biofilter! Just pour loose biofilter media into the bag and tie it off. When it is time to clean, lift them all out at once. Both bags include a drawstring at the top. Both are ¼" mesh nylon.

BF165	1/4 ft³, 18″ l x 12″ w	\$6.4
BF167	1 ft³, 35″ l x 23″ w	\$17.4

Media Bags

Our Mesh Filter Media Bags are made from a soft nylon material and can be used with a variety of chemical or biological filtration media. Our mesh media bags are reusable, easy to clean and include a nylon drawstring for easy opening and closing when replacing your filter media. For freshwater or saltwater use.

MFB01	5" x 7"	\$3.15
MFB02	10"x 12"	\$5.40

Important

We have tried to make this catalogue as comprehensive and factual as possible. However, we reserve the right to make changes to prices without notice. Manufacturer's specifications may change without notice.

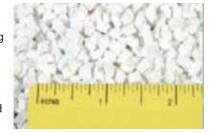
MM1 Mixed Media

Our mixed media contains 4 sizes of media that will greatly enhance a filter's performance, reduce back flush frequency and prevent channeling. The coarse top layer is carbonite with sizes between 2.0 and 2.2 mm. This material can remove iron and manganese that adhere loosely to the angular carbonite particles and backwashes easily. Ratios of each media are based on years of use in other industries. Our media is premixed in 1 cubic foot containers, which weigh approximately 80 pounds each. The specific gravity of multimedia is between 1.6 and 4.2 (sand is 2 to 2.8), so the backwash pressure or volume may have to be adjusted.

> MM1 \$105.90

Sinking Beads

You asked for them, so we found them! Use these sinking beads as a replacement for sand in sand filters, or use them in a fluidized bed or as inert hydroponics media. These beads come in assorted colours (no choice) and are sold per cubic foot. Weight is



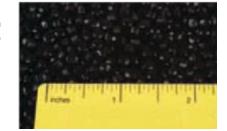
TRATION

45 lbs per cubic foot. Dimensions are typically 1/16" x 1/8" in an oval shape. When used in sand filters, backwash water flow should be reduced, as beads fluidize easier than sand. Beads have a specific gravity of 1.7 (sand is 2.0 to 2.8).

AB145 \$171.75

Floating Beads

These elliptical, polyethylene beads are about 3/16" in diameter with a 0.92 density. Sold in 55 lb (1.65 cubic feet) packages. Not recommended for sand filters, as they are difficult to contain during back washing due to their buoyancy.

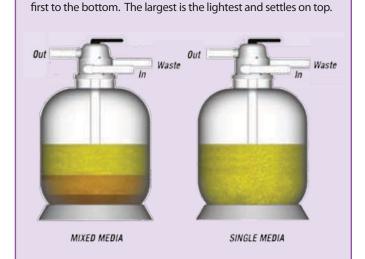


AB1 \$176.90

Sand Filter Media

There are numerous choices of media for sand filter vessels other than sand. For instance, you can use plastic beads, granular media of mixed size or lightweight filter media for particulate removal. Activated carbon can be useful for the removal of dissolved organics, chlorine, antibiotics, ozone, etc. Be sure to replace carbon before it becomes saturated with the material it had previously adsorbed. Sand filters can also be used with zeolite, which is an ionic exchange mineral with the ability to absorb ammonium ions from fresh water. Regardless of the media chosen, always backwash or rinse new material prior to operation to remove dust and fines that could irritate fish or cloud the water.

Sand filter housings can also hold biofilter media and perform as pressurized biofilters. This works well when using only one pump to cycle water from the culture tank through the filters to a height appropriate for spraying or degassing and then back. Filters can be put in series where two or more are used: one for particulates, one for dissolved organics, one for biofiltration, one for carbon, etc. Be aware that the published maximum clean water flow rate through a sand filter is typically much too high for aquaculture sizing. A flow rate less than half of the filter's maximum is what we recommend when selecting a vessel. In aquaculture, particular attention must be paid to backflushing frequency and volume. Recirculating aquaculture water's high organic content makes most media (especially sand) stick together and usually requires back washing two or more times per day. Remember that sand filters are designed for sand media, which has a small grain size and heavy specific gravity. The use of any other media will require experimentation to find the best backflush water volume.



www.FishFarmSupply.ca

Mixed Media Info

Different grain sizes segregate solids throughout the bed.

Mixed media filtration greatly surpasses the performance of single media filters. The drawback to a single media filter is that the first one inch of the media is trapping most of the solids

and the bottom portion is just wasted space. A sand filter that uses a single size sand grain will have an average size space

between the grains that varies only slightly. If that space were

400 microns on average, the sand bed would probably have a

A mixed media filter uses different grain sizes to segregate solids

throughout the bed. A large media is used first to "pre-filter"

large solids. Beneath that is a finer size and then a very fine

gravity, designed so that it will return to the ideal stratified

is expanded, "fluidized" and raised. Upon return to normal

media on the bottom. Each media used is a different specific

layer after backwash. During backwash the entire media bed

operation, the media that is the smallest and heaviest settles

nominal particle retention of 250 microns. The dirtier it gets,

the better it filters, because the spaces get plugged.

www.FishFarmSupply.ca

877-669-1096

+-Standard Stock Item

MS105

nylon filter bag. It is an excellent chemical absorption media and ion generator that will keep pH at a stable level. Keeps water clean and maintains a stable environment that helps fish resist osmotic shock. Can be used in fresh and saltwater, needs replacement once every six months. One 10 oz. bag is ideal for tanks up to 50 gallons. No air shipment.

it. Depending on conditions, it could solve your backflush channeling problem like it has for others.

1 ft³ 25 lbs **\$183.15**

the 20 to 40 micron range.

Lightweight Sand Filter Media

Particulate removal down to the 20 to 40 micron range.

Our lightweight media reduces the problem of backflush channeling,

a common problem with sand filters in reuse aquaculture. This occurs

Our lightweight media minimizes the problem because it expands 30

to 50% with only 8 to 10 gpm per square foot backflush (if the flow rate

is in excess of 10 gpm per square foot of area, a restricting valve on the

Weighs only 25 lbs/ft³ (sand is about 100 lbs/ft³). The irregular shape

of the lightweight media provides more void space, resulting in less

pressure loss. Its irregular surface provides particulate removal down to

Made of anhydrous silicon dioxide and approved for potable water. Try

when the heavy sand media doesn't fluff up (bed expansion) as it

should because the organics and bacteria make it stick together.

backflush drain may be needed to prevent the loss of media).



Savio Springflo™

Cutting Edge Performance, More Surface Area.

This is not just another plastic media, it's hybrid technology! You are looking at the world's most advanced biofilter media. The remarkable, embossed green coils of Savio Springflo™ provide more surface area for beneficial, waste purifying microorganisms than any other product of similar volume. Patented design resists clogging, channelling, and encourages rapid bacterial growth for healthier, cleaner ponds and water gardens.

Savio Springflo's embossed pattern provides over 180 ft² of active surface area per box. Easily self dispenses, simply hold above

filter and start unwinding from center. While other media have a short usable life (they work best off the shelf), the "loose coil" effect created by Savio Springflo[™] fosters an ideal environment for waste filtering, it actually works best as it gets dirtier. Plus, it's very easy to clean, just don't use soaps, hot water, or chemicals, as they can harm the beneficial bacteria thriving to keep your pond clean, naturally. Savio Springflo[™] is a special formulation of embossed polypropylene and calcium carbonate that lasts for an entire year. Plus, it's an easy upgrade for any old style filter still using filter mat, gravel, bioballs, or

4511♦ \$170.00

floss.



Zeolite Ammonia Remover

Fresh water only. Clinoptilolite filter media, otherwise known as zeolite, is an effective means of removing ammonia. It also provides a large surface area for nitrifying bacteria in recirculating

systems. ProLine high performance zeolite may be regenerated several times by overnight immersion in a salt solution (not effective in saltwater) and/or oven drying. EASY TO USE: Use 1 gram zeolite for every 1.5 mg of ammonia to be removed. For

example, to remove 1 ppm (1mg/l) ammonia from 10 gallons (38 liters) of water, use a minimum of 25 grams (0.13 lbs) zeolite $(38 \text{ l x } 1 \text{ mg/l} \div 1.5 \text{ g/mg} = 25\text{g}).$

ZAR10 10 lb Bucket \$33.45 ZAR5 50 lb \$66.15

Chemi-Pure®

A high grade blend of activated carbon and ion exchange resins pre-packaged in a convenient,

16705 10 oz. Jar **\$12.30**

Seachem Purigen®

Seachem Purigen® is a premium, synthetic absorbent that is unlike any other filtration product. It is not a mixture of ion exchangers or

Purigen

absorbents, but a unique macro-porous synthetic polymer that removes soluble and insoluble impurities and exceeds all others by

Purigen® removes proteins, ammonia, nitrates and a broad spectrum of organics, yet its impact on trace elements is minimal. It progressively darkens as it exhausts and is renewed by treating with household bleach. A 100 mL bag purifies up to 100 gallons (400 L) of water for up to 6 months. For both fresh and saltwater.

P165 100 ml \$11.70 250 ml \$19.80 P186 1 liter \$67.65 P187

Kent Marine Phosphate Sponge

Absorbs phosphates quickly from water.

This ceramic media can be used in marine and freshwater systems, including koi ponds and recirculating aquaculture systems.

One quart (650 g) of media will reduce 1.0 ppm phosphates or silicates to less than .5 ppm in 120 gallons of water. Media particle size is 2 to 5 mm and can be retained using an 800 micron or smaller mesh bag. Can be regenerated in a household oven.

5 lb pail



Pelletized Activated Carbon

By far, the best carbon in the market. Removes colors and odors from aquariums and pollutants that mechanical and biological filtration leave behind. Has enormous surface area due to activation process. Three

composite materials inside the pellet remove a wider range of organic contaminants. Large pellet will not restrict flow when compared to competing brands. High adsorption capacity is achieved by a wide range and quantity of internal carbon pore sizes. For phosphate free applications, pre-rinse carbon before use.

AC2805 ½ gallon bag (28 oz.) \$19.77 AC2855 \$427.11 55 lb bulk bag

Reef Carbon

This high grade carbon is tremendously efficient at chemical adsorption. It has a particle size of 0.8 to 1.5 mm, a pore size of 10 to 20,000 Angstroms, an iodine level greater than 1,100 and an ash

content less than 0.2%. It contains no phosphates and is excellent for removing dissolved organics, organic chemicals and heavy metals. Highly recommended for saltwater reef systems. Use 1/4 lb per 100 gallons. No air shipment.

KC6 15 lbs \$128.00 **KC55** 44 lbs \$293.00

LLETIZED

CARBON

Activated Carbon

This super activated carbon is a highly active, coal-based carbon used in research laboratories, aquariums and universities. The patented activation process used in its production

yields a high purity, premium grade carbon with optimal pore structure and a large surface area for maximized adsorption. This unique design provides fast, continuous and more thorough removal of odors, colors, organic pollutants, toxic compounds and medications. The result is a cleaner, healthier water environment. No air shipment

5		
AC412A♦	1.5 lb Jar	\$18.15
AC412♦	15 lb Bag	\$126.00
AC55♦	55 lb Bag	\$250.10

Activated Carbon Economy Pellets

Activated Carbon is the most effective media to clear water of toxic organic substances, discoloration and foul odors. This carbon has been proven in laboratory tests to be more effective than other filter carbons. Each pellet contains large pores allowing it to absorb and hold more contaminants, which is vital to attaining the extreme removal of chemical and organic pollutants and toxins. Use in fresh and saltwater aguariums and ponds. No air shipment.



Fluval Carbon

Premium research grade low ash Fluval Carbon is highly porous, providing large amounts of surface area for adsorption of impurities. It effectively removes heavy metals, odors, discolorations, organic contaminants and pollutants to leave your aquarium water crystal clear and sparkling. Fluval Carbon does not raise phosphate levels. For use in fresh water and marine environments. For all Fluval canister filter models.

A1447 \$21.50 A1448 1,650 g \$35.50

Fluval Ammonia Remover

Fluval Ammonia Remover is a natural ion exchange media designed to remove toxic ammonia as water passes over it. Controlling ammonia levels reduces stress on fish. Use this product to provide a healthy environment when setting up a new aquarium or maintaining one that contains a higher than average fish stock. For fresh water use only. For all Fluval canister filter models.

1,600 g \$22.50 A1486 A1487 2,800 g \$35.50

Fluval Zeo-Carb

Fluval Zeo-Carb is a premium blend of research grade Fluval Carbon and Fluval Ammonia Remover. Working together, these highly effective media eliminate liquefied impurities, odors and discolouration, while simultaneously removing toxic ammonia, for a clean, healthy aguarium. Combining two products into one allows for more space within the filter for other types of media. For fresh water use only. For all Fluval canister filter models.

A1492 1,200 g \$24.00 A1493 2,100 g \$37.00



Fluval Biomax Bio-Rings

Fluval Biomax bio-rings have a complex pore system creating an optimal environment where beneficial bacteria can thrive. Biomax bio rings have more capacity than most biological filter media and allow ideal water movement throughout the media to ensure optimal contact time for efficient biological filtration. Biomax also reduces and controls ammonia and nitrate.



www.FishFarmSupply.ca

TRATION

Activated Carbon

877-669-1096

•-Standard Stock Item

Fluval FX-Series Canister Filters

The FX-Series is a high capacity workhorse of Fluval's canister lineup, enhanced with all the power and reliability you've come to expect from a high-performance filter. This filter is easy to set-up, just add water, plug in and Smart PumpTM will take over. All filter media included - mechanical, chemical and biological. Smart PumpTM - advanced microchip technology continuously monitors and optimizes pump performance. Trapped air auto-evacuated every 12 hours to ensure maximum efficiency. Anti-clog, telescopic strainer ensures continuous

water flow. Multi-directional output nozzles can be fully adjusted to create customized water flows. Rubberized feet help ensure quiet operation. the Aqua-Stop valves with have a leak-proof Click-Fit attachment system and are positioned at convenient 45-degree angle for easy installation and rotation. Made in Italy.

The FX-Series filter is also compatible with the new FX gravel cleaning vacuum kit. This kit uses your filter to allow you to clean your tank without additional pumps or mess. See the cleaning section for more



		Tank Size	Flow Rate	Height	Volume of Media	
A214	FX4	up to 260 gal	700 gph	16.5"	3.9 liters	\$540.00
A219	FX6	up to 395 gal	925 gph	21.0"	5.9 liters	\$600.00

Fluval FX-Series Replacement Parts

A228	Foam Filter Block, 3 pk	\$27.00
A239	Bio-Foam, 2 pk	\$19.50
A246	Polishing Pads, 3 pk	\$10.00
A248	Fine Filter Pads, 3 pk	\$8.50
A249	Carbon Impregnated Foam, 2 pk	\$19.50





BIOLOGIQUE + BIOLOGISCH BIOLÓGICA · BIOLOGISCH BIOLÓGICA



CHEMICAL CHIMIQUE + CHEMISCH QUÍMICA



Fluval G-Series Canister Filters

Fluval G series uses the basic functions of filtration in an entirely new and unique concept. The mechanical pre-filter and the chemical filter media are now housed in cartridges which are directly accessible from the top of the filter. Both can be cleaned or replaced without disassembling the whole filter. Changing or maintaining each cartridge is now quick and mess free. Following the mechanical and chemical cleaning, water enters into the biological filtration stage. The Bio Baskets are filled with a new media which are specifically engineered and manufactured to perfectly



accommodate billions of nitrifying bacteria to purify aquarium water. The biological filtration media comes in two sizes for maximum compaction and can remain in the filter for 6 months before maintenance is required.

		Tallik Size	riow nate	Max Head	
A410	G3 - 18 watt	40 - 80 gal	365 gph	6.2'	\$440.00
A412	G6 - 27 watt	80 - 160 gal	665 gph	7.6′	\$540.00

Fluval G-Series Replacement Parts

	o o o i i o o i i o o i i o o i i o i o	
A414	Ceramic G-Nodes (G3 or G6)	\$30.00
A415	Pre-Filter Cartridge, G3	\$25.00
A417	Pre-Filter Cartridge, Fine, G3	\$38.00
A419	Phosphate Cartridge, G3	\$20.00
A421	Nitrate Cartridge, G3	\$35.00
A423	Tri-EX Cartridge, G3	\$30.00
A425	Chemical Cartridge, G3	\$15.00
A416	Pre-Filter Cartridge, G6	\$40.00
A418	Pre-Filter Cartridge, Fine, G6	\$50.00
A420	Phosphate Cartridge, G6	\$25.00
A422	Nitrate Cartridge, G6	\$50.00
A424	Tri-EX Cartridge, G6	\$42.00
A426	Chemical Cartridge, G6	\$25.00

Fluval External Aquarium Filters

Versatile filter packages for small fish tanks. These well designed, self contained filter systems can be placed under or behind your fish tank. They are complete with valves, water pump, tubing, inlet strainer, filter, primer, media, etc., and provide optimum filtration in a small footprint. Cleaning is very quick and easy because of their built in, quick release hose valves, primer and nesting media baskets. Include foam filters, carbon and Bio Max media. Pumps are 115 V. One year warranty.

	Tank Size	Watts	Flow Rate	
H105	26 gal	10	1.5 gpm	\$230.00
H205	53 gal	10	3 gpm	\$290.00
H305	79 gal	16	4.3 gpm	\$380.00
H405	106 gal	23	\$480.00	
A220	Foam Block - H105			\$6.50
A222	Foam Block - H205 & H305			\$7.50
A226	Foam Block - H405			\$8.50
A236	Bio-Foam - I	H105 & H2	205	\$5.50
A237	Bio-Foam - H305 & H405			\$7.50
A242	Polishing Pad - H105 & H205			\$7.00
A244	Polishing Pad - H305 & H405			\$8.50

AquaClear Power Filters

These aquarium filters are powerful, yet compact in size. They offer mechanical, biological and chemical filtration by using a foam filter insert, activated carbon bag and Biomax. The foam insert can be easily rinsed and reused without eliminating the bacteria. Optional Amrid bags aid in removing ammonia from fresh water tanks. Filters are 115 V, with a six month warranty.

ACF1	20 (up to 20 gal tank)		\$58.00	п
ACF15	30 (up to 30 gal tank)		\$65.00	Ħ
ACF20	50 (up to 50 gal tank)		\$77.00	Ų
ACF30	70 (up to 70 gal tank)		\$99.00	Ų
ACF50	110 (up to 110 gal tank)		\$164.00	
ACF1F	20 Foam	3 pk	\$5.00	
ACF15F	30 Foam	3 pk	\$6.00	
ACF20F	50 Foam	3 pk	\$8.50	
ACF30F	70 Foam	3 pk	\$13.50	
ACF50F	110 Foam	1 pk	\$10.00	
ACF1C	20 Carbon	3 pk	\$8.00	,
ACF15C	30 Carbon	3 pk	\$8.50	
ACF20C	50 Carbon	3 pk	\$10.50	
ACF30C	70 Carbon	3 pk	\$16.50	
ACF50C	110 Carbon	1 pk	\$10.00	
ACF1A	20 Ammonia Remover	3 pk	\$3.80	
ACF15A	30 Ammonia Remover	3 pk	\$4.30	
ACF20A	50 Ammonia Remover	3 pk	\$5.00	
ACF30A	70 Ammonia Remover	3 pk	\$7.50	
ACF50A	110 Ammonia Remover	1 pk	\$11.00	
ACF1Z	20 Zeo-Carb	3 pk	\$3.60	
ACF15Z	30 Zeo-Carb	3 pk	\$4.30	
ACF20Z	50 Zeo-Carb	3 pk	\$4.60	
ACF30Z	70 Zeo-Carb	3 pk	\$7.50	
ACF50Z	110 Zeo-Carb	1 pk	\$11.00	
ACF1B	20 Bio-Max	1 pk	\$5.39	
ACF15B	30 Bio-Max	1 pk	\$6.00	
ACF20B	50 Bio-Max	1 pk	\$8.10	
ACF30B	70 Bio-Max	1 pk	\$9.20	,
ACF50B	110 Bio-Max	1 pk	\$16.20	

Extra Large Sponge Filter

Phosphate Remover

This extra large sponge filter works as a biological filter and clarifies water through solids captured. A nice filter for small ponds, water gardens and fish holding tanks. The reticulated sponge is 9" x 9" X 9" and is easily cleaned or replaced without tools. The 20" tall PVC chimney is sealed at the bottom and can be shortened if needed. Requires 0.25 cfm of air to operate and 1 lb of weight to submerge it (pour a cup of sand or gravel down the chimney). Includes 20' of 1/4" I.D. tubing and an ALS3 diffuser.

www.FishFarmSupply.ca

1 pk

\$9.00

FP3	Sponge Filter	\$83.00
FP3F	Replacement Sponge	\$69.30

Fluval Clip-On Power Filter

Engineered to create superior water quality, the Fluval C-Series Power Filter provides extensive 5-stage filtration for outstanding results. Two mechanical, one chemical and two biological stages. The Power Filter is designed to provide maximum surface

area and optimum

dwell times in

all stages of the filtration process.



MOLLY

Aquarium Filters

Rigorous 2-stage mechanical filtration is performed by a thick layer of poly/foam that effectively traps large and fine debris. The foam slides out easily for quick cleaning. Activated carbon, located in an easilymanageable and removable basket, performs thorough chemical filtration and effectively removes toxins.

In the final two stages, a Bio-Screen pad provides massive biological surface area for friendly bacteria to colonize, plus it blocks debris from entering a trickle chamber filled with C-Nodes that are super-charged for fast and efficient nitrification.

The result is clean, clear and healthy water for aquarium life to thrive in. The Power Filter also features a patented refiltration control system that lets you slow down the water output, creating a gentle flow to protect delicate fish and plants. At the same, a slower water circulation increases water dwell time in the filter, resulting in cleaner aguarium water. The Power Filter's completely modular design allows you to manage each stage separately and make changes at different times to maintain continuous biological activity. This results in a stress-free environment

and ensures clear aquarium water.						
14001	C2 (up to 30 gal tank)		\$75.00			
14002	C3 (up to 50 gal tank)		\$90.00			
14003	C4 (up to 70 gal tank)		\$120.00			
14005	Foam Pad, C2	2 pk	\$5.00			
14006	Foam Pad, C3	2 pk	\$6.00			
14007	Foam Pad, C4	2 pk	\$7.00			
14008	Poly/Foam Pad, C2	3 pk	\$9.50			
14009	Poly/Foam Pad, C3	3 pk	\$10.50			
14010	Poly/Foam Pad, C4	3 pk	\$13.50			
14011	Activated Carbon, C2	3 pk	\$6.00			
14012	Activated Carbon, C3	3 pk	\$7.00			
14013	Activated Carbon, C4	3 pk	\$11.50			
14014	Ammonia Remover, C2	3 pk	\$6.00			
14015	Ammonia Remover, C3	3 pk	\$8.00			
14016	Ammonia Remover, C4	3 pk	\$11.50			
14017	Zeo-Carb, C2	3 pk	\$7.00			
14018	Zeo-Carb, C3	3 pk	\$9.50			
14019	Zeo-Carb, C4	3 pk	\$12.50			
14020	Bio-Screen, C2	3 pk	\$10.00			
14021	Bio-Screen, C3	3 pk	\$12.50			
14022	Bio-Screen, C4	3 pk	\$14.50			
14023	C-Nodes, C2 & C3	100 g	\$23.50			
14024	C-Nodes, C4	200 g	\$27.50			

Pressurized Filters

Install above or below ground, these pressurized filter systems improve water quality and promote the colonization of beneficial bacteria. Maintenance is easy and the filter does not have to be disassembled for regular cleaning. Simply use the grab-and-twist handle to activate the backwash feature and remove waste that has built up in the filter. The filter includes both foam sponges to remove large organic debris and bio-balls to provide housing for beneficial bacteria that break down harmful ammonia and nitrites. Combine with an UV clarifier for optimal filtration. 3 year warranty.

	Max flow	Max Pond Size	Diameter x Height	
PF800	800 gph	800 gallons	14" x 18"	\$270.00
PF1200♦	1,200 gph	1,200 gallons	14"x 21"	\$338.00
PF2400♦	2,400 gph	2,400 gallons	14" x 25"	\$404.00



Three Port Valve

Allows proportional flow. One 3 way valve can take the place of three regular valves in some situations. This unit can be disassembled for cleaning and fits 11/2" PVC pipe (11/2" slips into valve sockets). The inlet is always open. The handle position closes sides 1 or 3. When in position 2, none is closed.

SV300 \$67.94

Pressure-Flo Filter

Pressure-Flo Filters UVC is an all in one filtering system that keeps pond water clear and healthy. The high performance filter provides important water filtration functions that are essential for everyday pond maintenance: mechanical and biological filtration, as well as UVC sterilization.

Once the filter is connected to the pump, water enters the unit through a water inlet. It then passes through the mechanical filtration stage, consisting of foam filters that intercept and trap dirt and debris. Next, water enters a biological filtration chamber where it comes into contact with Biospheres biomedia which harbour beneficial bacteria that keeps the water healthy. Dirt-free water then passes along an integrated UV-C lamp, where it is exposed to ultraviolet rays that inhibit the growth of single celled algae organisms. Water finally returns to the pond thoroughly cleansed.

Backwash cleaning can easily and comfortably be done in a few minutes without opening the lid. This feature ensures that the filter performs at optimal levels for many days and prolongs the time between full maintenance sessions. An easy-view cleaning indicator signals when it's time to perform backwash cleaning.

	Max. Pond Size	UV Size	Flow (gph)	Filter Price
PT1500	700 gal.	11 watt	330 - 660	\$400.00
PT1502♦	1,400 gal	11 watt	660 - 1,320	\$440.00
PT1504♦	2,100 gal	20 watt	1,050 - 2,110	\$610.00
PT1506♦	3,200 gal	25 watt	1,580 - 3,200	\$700.00

Pond Filter & Pump Kit

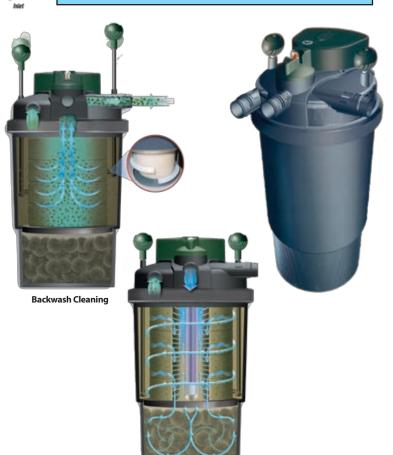
Complete with Quiet One Pump and Fountain Spray Attachment with leveling fitting to keep fountain spray straight and vertical if pond

Multi-chambers filter out pollutants through mechanical and biological means. Features 2-stage high capacity mechanical filtration, (2 types of sponges) while biological media is safely contained inside sturdy

		Poriu Size	
R44021+	Pond Filter, Quiet One 2200 Pump	1000 gal	\$233.15
R44022	Pond Filter, Quiet One 3000 Pump	1500 gal	\$261.75
R44023	Pond Filter, Quiet One 4000 Pump	2000 gal	\$291.00

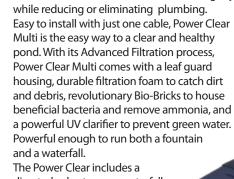


We can order in parts for these and many other brands of filters and often stock many parts for fast repairs. If you cannot find what you are looking for we are happy to help.



Power Clear Multi All in One

Laguna Power Clear Multi All in One Pump, Filter and UV unit is the perfect way to combine powerful water movement while still being able to keep your water clean and have a fountain or waterfall in your pond. This unit does it all and can eliminate unsightly filters at the pond side



diverted valve to run a waterfall, with click fit connection and two fountain heads; a Water Bell and Multi-Tier display. The magnetic drive energy efficient pump comes with a 30' power cord. 3 year warranty.

PT1817♦

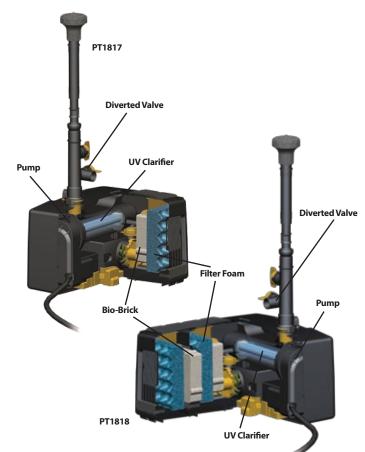
Max Pond Size

1000 gallons

PT1818 ♦	PT1818 ♦ 1500 gallons		740 gph	\$380.00
PT1820	Foam, 2 pack			\$18.00
PT1822	Foam, 2 pack & UV Bulb			\$41.00
Specs	Pump	UV Size	No. of Foam	No. of Bio-Brick
PT1817	18 watts	13 watts	1	1
PT1818	32 watts	13 watts	2	2

Max Flow Rate

580 gph





Boifalls

Designed to be buried and hidden with rocks, these plastic biofilters feature a wide spillway. Water is pumped through a bulkhead fitting in the bottom. As water travels up, it passes through a perforated bottom diffuser, optional biomedia (not included) and then out the spillway. A media bag and foam filter disc are included

iciaaca.					
	Spillway	Dimension	Bulkhead	Pond Size	
BF1600	17" wide	22"x 20"x 18"h	11/2"	1,250 gal	\$330.00
BF1900	19" wide	28" x 25" x 22" h	2″	2,000 gal	\$480.00
BF2600	26" wide	36" x 25" x 23" h	2″	4,000 gal	\$580.00
BF3800	38" wide	47" x 30" x 23" h	3″	8,000 gal	\$920.00

BioSmart Gravity Filter

The BioSmart Gravity Filters are a multistage mechanical and biological filtration system in a compact package, designed for medium ponds, up to 5,000 gallons, or for ponds with moderate biological load (some fish). During filtration, the water is channeled through a series of filter foams that both remove sold waste and create a special environment allowing the beneficial bacteria to grow. During biological filtration, beneficial bacteria use harmful ammonia and nitrites are converted to nitrates, which support plant life in the pond. BioSmart Filters are packed with features and filtration capacity. The high-surface area filter



Pond Filters

foams provide exceptional biological filtration capability in relation to its size. With features like the built-in easy cleaning mechanism and water temperature gauge make BioSmart Filters an excellent choice.

FILO5000♦ \$220.00

PowerFlo 1000 External Filter

Laguna PowerFlo External Biological Filter 4500 is ideal for larger ponds up to 1000 US gallons or 4500 L. The filter features an efficient 3-tiered filtering system that provides complete mechanical and biological filtration. The top tray houses pumice filter material (included) which provides mechanical and biological filtration. Below the top tray, a foam pad (also included) performs mechanical filtration. The bottom tray is designed to hold the biological media of your choice, such as Laguna BioMax (not included). The trays have convenient handles which allow you to remove them easily. Other features include a built-in

drain plug and two outlets for creating waterfalls or connecting to other pond equipment such as a UV Sterilizer. The filter is designed to be installed outside the pond, which allows easy access for maintenance. A Universal Click-Fit coupling for 34", 1" and 114" inlet tubing is also included.

\$220.00

PT510♦



Tarpon® Pond Filter System

Designed for Heavy Fish Loads and High Flow Rates

Mechanical and biological filtration in a one piece fiberglass tank delivering superior strength and durability. Supplied with the Tarpon Pond Filters for excellent mechanical filtration while also providing maximum surface area with the greatest possible mix of air and water. Cultivates nitrifying bacteria, promotes gas exchange, increases dissolved oxygen level and removes harmful gases. High surface area will not clog with organic matter. Includes new High Flow Lateral System, designed specifically for ponds and will not clog. Six Position Hi-Flow Valve controls all functions of Filter, Waste, Backwash, Closed, Rinse and Recirculate. Also include the appropriate amount of 1" BioMate media. Pump not included.

		Flow Rate	Height	Diameter	
R44640	Pond Filter 40	40 gpm	37"	19½"	\$1,527.00
R44642	Pond Filter 60	60 gpm	41¼"	24½"	\$1,554.50
R44644	Pond Filter 100	100 gpm	471/4"	30½"	\$1,624.80

Biofilm Carrier Elements

Successful biofiltration using moving bed technology requires the use of the right media. This media is ideal for moving bed biofilter applications. With a surface area of 259 ft²/ft³, this polyethylene biomedia is positively buoyant and self cleaning. This proven geometric design provides an abundant amount of surface area for bacteria to colonize. In nitrifying applications, use aeration to continuously circulate the elements, while simultaneously oxygenating the water and stripping

the CO₂. Robust bacteria colonization is essential to the nitrification process of converting ammonia to nitrite and ultimately nitrate. The self cleaning action allows for the exfoliation of the older, less active bacterial layer and eliminates the need for back washing. The elements are 7 mm (5/6") long and 10 mm (7/6") in diameter and natural in colour. Sold by the cubic foot. Ship weight is 10 lbs/ft³

BF150♦ 1 ft³ \$62.24 BF150B $1 \, \mathrm{m}^3$ \$1,585.00







Media in bioreactor.

We also carry Nitrabactor that will work in fresh water or saltwater as well as Ammonia Chloride to get your biofilter started on Pg 32 in the Water Treatment section

Clearwater™ Low Space Bioreactor

There are many types of biofilters used in aquaculture, including trickling, submerged, rotating biological contractors (RBC) and fluidized beds. While other biofilters manage an average of 3 kilograms of feed per cubic meter of biofilter volume per day, the Clearwater™ Low Space Bioreactor (LSB) manages as much as 12 kilograms of feed per cubic meter. That is 790 grams of total ammonia nitrogen per cubic meter of media per day. Our smallest LSB will handle a standing stock of fish up to 140 pounds.

This is a robust, non-pressurized biofilter that is much less sensitive to flow rate variations and power interruptions than fluidized bed sand biofilters. When operated in low head recirculating systems, it can easily be sunk into the floor to reduce the pump pressure. When

installed this way, only a few inches of head loss will occur across the LSB. Because air is used to circulate the media, the LSB both adds oxygen and strips carbon dioxide! A hood can be placed over the bioreactor to vent the CO₂ outdoors. We have coloured them blue/green to prevent algae growth inside and provide the dark environment preferred by the Nitrobacter bacteria.

Air diffuser depth can be adjusted for compatibility with your blower or compressor. The LSBs are complete with media. Compressed air connections are ½" NPT. Air pump not included. All you need are male threaded pipe connections. We can also custom build larger sizes.

·	Tank Volume	Dia x Width	Media Max	Flow Rate	Min. Air Flow	In/Out	Feed (lbs/day)	8
LSB2.5	35 gal	18"x 33"	2.5 ft ³	3 to 9 gpm	1 cfm	11⁄4″	1.5 to 3	\$897.00
LSB3	40 gal	18" x 36"	3 ft ³	3 to 10 gpm	1 cfm	11⁄4″	2 to 4	\$1,004.00
LSB5	70 gal	23"x 43"	5 ft ³	7 to 20 gpm	1.5 cfm	2"	3 to 6	\$1,557.00
LSB7	94 gal	21½" x 62"	7 ft ³	10 to 30 gpm	2 cfm	3"	4 to 9	\$1,920.00
LSB8	105 gal	31"x 37"	8 ft³	10 to 30 gpm	2 cfm	3″	5 to 10	\$2,000.00
LSB12	170 gal	31"x 57"	12 ft ³	17 to 50 gpm	3 cfm	3″	7 to 15	\$2,703.00
LSB25	323 gal	47" x 50"	25 ft ³	25 to 90 gpm	4.5 cfm	4"	15 to 30	\$4,449.00
LSB35-2	480 gal	47" x 71"	35 ft ³	40 to 200 gpm	4.5 cfm	6"	20 to 45	\$6,903.00







Reducing pond maintenance, while blending with the surrounding landscape, the Compact Skimmer collects debris, clears water, and hides unsightly pumps. This mighty skimmer delivers dynamic multi stage filtration for smaller ponds and water features, providing a complete filtration system for ponds up to 700 gallons, and a skimming solution for ponds up to 2,500 gallons. Like its larger predecessor, it combines three types of

filtration for optimal water quality; skimming, mechanical, biological.

-	-	-		_
	Flow Rate		Surface Area	

CS0000+	Compact Skimmer	See Below		\$626.40
CSW6♦	Faceplate 6"	500 to 1,800 gph	up to 200 ft ²	\$64.88
CSW85♦	Faceplate 8½"	1,800 to 3,000 gph	up to 300 ft ²	\$99.00

Skimmer Pond Filters

Compact Savio Skimmer

This sturdy pond skimmer is made of heavy, molded plastic polymer. The structure resists warping, will not bend and is big enough for large submersible pumps. A thick, nonskid cover has security lock nuts. A large, internal leaf basket traps large floating debris before it settles on the bottom. An integrated filter mat with removable frame provides finer filtration. A unique one click locking weir allows isolation of the pump for cleaning and winterization. Faceplates (required) sold separately below, order size by pump or pond size. Pumps are not included. Five year warranty.

	year warra	ity.		Warping	-	
			Max Pump Flow Rate	Max Pond Surface Area	193/8	₃ " —
	S15012+	Skimmer	See Below		\$889.18	
	4505♦	8 ½" Faceplate	83 gpm	900 ft ²	\$112.50	
	4503♦	16" Faceplate	130 gpm	1200 ft ²	\$127.00	
\$10116♦ Replacement Fil			lter Mat		\$13.00	

Retrofit Skimmer

OAS57395

This in-pond skimmer can be added to supplement your existing skimmer or used in ponds that do not have an existing skimmer. Installation is as easy as connecting a hose, filling the large base with rocks to hold it in place and adjusting the height. It is extremely effective at removing leaves, pollen and other floating debris. This skimmer is also useful for ponds with fluctuating water levels as it will adjust up to 6" in variance and can be set up in water depths from 8" to 22" deep. This skimmer is designer to service a surface area up to 425 ft². Includes a barbed adapters for 1", 11/4" and 11/2"

\$140.00

tubing. Recommended flow rate is 1,600 gph to 4,200 gph.





Living Pond Filters

These pond filters have a built in settling cone with a bottom drain for easy cleaning. Sturdy injection molded housing will not warp, frost heave or collapse. The large 3 ft³ filter chamber is filled with Springflo™ biofilter media (included) that provides 180 ft² of surface area for biofiltration. A top filter mat polishes the water before it is gravity fed back into the pond. The Waterfall model has a 22" wide weir that creates a waterfall or stream. The Versatile model has a 2" FNPT outlet that can be attached to a pipe or tubing for direct pond or stream discharge. Both filters have 11/2" FNPT inlets, and 11/2" bottom drains. For ponds with heavy debris or heavy fish loads, one unit per 5,000 gallons is recommended. Maximum flow rate is 140 gpm. Lid will support 200 lbs. Five year warranty.



Floating Skimmer

This surface skimmer will do the hard work for you! It offers strong suction, does not require a separate pump and is ideal for retrofitting. Its powerful suction cleans a pond surface (coverage up to 270 square ft.). It floats along the surface of your pond, removing large debris. It is easy to use—just plug it in and drop it in your pond. It automatically adapts to any water level (minimum 16" water depth). This surface skimmer is designed to draw debris from the surface of the water for a prettier view and a healthier pond. OAS50040 \$140.00





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www.FishFarmSupply.ca 877-669-1096 +-Standard Stock Item

TRATION

Skimmer and Waterfall Filters

This reasonably priced bag filter vessel is designed to allow high flow rates through a single reusable bag filter. It is rated at 75 gpm for clean water (for particulate laden water and/or to extend time between cleanings, we recommend a design flow rate below 40 gpm). For higher flows, use two or more in parallel. To further extend time between cleaning, place a larger micron filter before a smaller micron filter in series. The vessel is made of polypropylene with a threaded lid, O-ring and removable internal basket for easy bag removal. This vessel has 2" FNPT inlet and outlet and ¼ " FNPT lid vent and weighs 10 lbs. Optional pressure gauges for lid vent are listed below. Bags are 6" dia x 20" length with 2 ft² of surface area. They are fitted with a Polyloc® ring, which seals directly against the filter housing, eliminating any chance of bypass. Vessels include housing, lid, retainer basket and 2 plastic leg/foot assemblies, easily cut to required height. Maximum pressure is 100 psi at 110°F. One year warranty.

FV1	Bag Filter Vessel	\$483.15	
36049	Conical Base	\$174.75	
BG15	Gauge, 0 to 15 psi, ¼ "NPT	\$25.80	
LPG30	Gauge, 0 to 30 psi, 1/4 "NPT	\$42.75	
BG61	Gauge, 0 to 60 psi, ¼ "NPT	\$19.35	
FV1S	Replacement Lid O-ring	\$12.90	
FVV1L	Replacement Threaded Lid	\$127.65	. '
36002	Replacement Internal Basket	\$136.80	
FV1F	Replacement Leg (2)	\$58.05	
VB1	FV1 Bag Filters (Felt), 1 micron	\$10.80	
VB5	FV1 Bag Filters (Felt), 5 micron	\$10.80	
VB10	FV1 Bag Filters (Felt), 10 micron	\$10.80	
VB25	FV1 Bag Filters (Felt), 25 micron	\$10.80	
VB50	FV1 Bag Filters (Felt), 50 micron	\$10.80	
VB100	FV1 Bag Filters (Felt), 100 micron	\$10.80	
VB200	FV1 Bag Filters (Mesh), 200 micron	\$10.80	
VB300	FV1 Bag Filters (Mesh), 300 micron	\$10.80	
VB600	FV1 Bag Filters (Mesh), 600 micron	\$10.80	
VB800	FV1 Bag Filters (Mesh), 800 micron	\$10.80	



FV1 with Optional

XL234 Bag Filter

The XL234 is a highly durable bag filter system. The vessel, constructed of glass-filled polypropylene with UV inhibitors, comes with a 100% polypropylene basket and Viton gasket. The filter is rated up to 85 psi at

110°F and provides flowrates up to 160 gpm. The filter bag allows for extra dirt holding with its 5.3 ft² surface that is 20% larger than a standard size filter bag.

In addition to the durability and broad range capability, the XL234 is simple to use. The twist-off lid requires no tools and the EZ Loc ring on the filter bag easily snaps into the sealing groove to prevent bypass. The tripod filter legs are integrally molded to the filter body for ease of installation. A sacrificial vent grommet on the filter will vent if the lid is not closed securely, providing extra safety in operation.

The filter is available with 2" NPT inlet/outlet connections in-line side in/ side out. The filter bags are available in a variety of microns and materials including polypropylene felt, polypropylene monofilament felt and polypropylene microfiber.

- Designed for simplicity, safety and service life
- 85 psi filter, 160 gpm flow rate • Twist-off cap and EZ Loc ring
- 2" NPT inlet/outlet
- 531/2"H x 171/2"D at widest point
- Variety of filter bags available

FV234	Filter Vessel	\$2,865.00
FV234B	Repl. Basket	\$334.20
F234G	Repl. Gasket	\$53.10
FV24GK	Safety Grommet Kit	\$35.55
XL1	Poly Felt Filter Bags, 1 micron	\$15.90
XL5	Poly Felt Filter Bags, 5 micron	\$13.20
XL10	Poly Felt Filter Bags, 10 micron	\$13.20
XL25	Poly Felt Filter Bags, 25 micron	\$16.80
XL50	Poly Felt Filter Bags, 50 micron	\$15.60
XL100	Poly Felt Filter Bags, 100 micron	\$13.80
AXL1	Poly Microfiber Filter Bags, 1 micron	\$40.05
AXL2	Poly Microfiber Filter Bags, 2 micron	\$40.05
AXL10	Poly Microfiber Filter Bags, 10 micron	\$33.60
AXL25	Poly Microfiber Filter Bags, 25 micron	\$31.80
AXL90	Poly Microfiber Filter Bags, 90 micron	\$30.30
M100XL	Poly Mono Felt Filter Bags, 100 micron	\$29.00
M200XL	Poly Mono Felt Filter Bags, 200 micron	\$24.90
M600XL	Poly Mono Felt Filter Bags, 600 micron	\$23.25
M800XL	Poly Mono Felt Filter Bags, 800 micron	\$21.60

Filter Bags with Poly Ring Mouth

Aquaculture filtration is a huge problem. Flow rates are high and the filtrate is delicate, slimy, organic and can easily become liquefied, turning a solid waste problem into a liquid waste problem. Bag filters are very effective at removing organic

The monofilament type is single ply nylon resembling a piece of cloth or window screen. The felt type is polypropylene, thick and fluffy, giving it three dimensional filtering ability. Both are washable, but wash the felt type gently. All bags are 32" long with a 7" diameter mouth and polypropylene ring that fits the optional Celcon® adapter (FBH) perfectly.

Nylon Mo	onofilament					Felt Polypropylene		
FB1N	1 micron	\$96.60	FB75N	75 micron	\$15.00	FB1	1 micron	\$11.70
FB5N	5 micron	\$78.60	FB100N	100 micron	\$13.20	FB5♦	5 micron	\$9.30
FB10N	10 micron	\$80.25	FB200N	200 micron	\$14.00	FB10♦	10 micron	\$9.90
FB20N	20 micron	\$31.05	FB300N	300 micron	\$13.35	FB25	25 micron	\$9.30
FB40N	40 micron	\$29.25	FB800N	800 micron	\$12.30	FB50	50 micron	\$9.30
						FB100	100 micron	\$9.60
						FB200	200 micron	\$10.35



Filter Bags with Drawstring

The same materials as the nylon monofilament bags but with a drawstring top. This allows attachment directly to any open water line. If you are presently using adapter heads, these bags will also fit over them. Bags are 32" long with a 7" diameter mouth.

BAG1	1 micron	\$97.05	BAG75	75 micron	\$15.00
BAG5	5 micron	\$78.60	BAG100♦	100 micron	\$13.05
BAG20♦	20 micron	\$34.65	BAG200	200 micron	\$13.80
BAG40♦	40 micron	\$33.00	BAG300	300 micron	\$13.35
			BAG800	800 micron	\$12.30

Polyester Mesh Bags

Pre-filters water. Ideal for collecting rotifers, Artemia, fish eggs and other small organisms, these polyester mesh bags are available in 18" and 31" lengths and a variety of mesh sizes. They can also be used for filtering particulate matter from tank inlets and overflows. Bag is equipped with a stainless steel ring 7" in diameter and a cotton handle.

\$9.90 \$11.55
\$11.55
\$9.90
\$11.55
\$11.55
\$9.90
\$9.90

Filter Bag Adapter

This plastic (Celcon®) adapter will thread on to 11/2" male thread and provide support and quick bag changes. Fits 7" diameter bags with polypropylene rings.

7 diameter bags with polypropylene migs.				
FBH	\$39.12			
	Direct Overflow Back to Tank in Case Bag Fitter Becomes Clogged			

Filter Media Bags

These polyester monofilament filter bags are excellent for retaining carbon, zeolite and other media. They are perfect for placing in sumps, pond filters and many other places. Bags feature drawstring closing tops. Select 250 or 800 micron mesh size. Sold in packs of 10 bags.



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TRATION

Bag Filters

10" Filter Cartridges

Our FXC filter housing tops are made of polypropylene with ¾ " FNPT ports and

feature acrylonitrile, shatter resistant filter housings. FXB has a unique bypass valve built in its top, which allows the cartridge to be changed without interrupting the flow. Both models are rated to 150 psi, accept all standard 10" filter cartridges. Flow rate



of 5 to 6 gpm. The canister cartridge (FX6) is sold empty for filling with your own media (zeolite, resin or carbon, etc.) and includes gaskets, pre-filter and post-filter.

FXC♦	Filter Housing	\$34.80
FXB	Bypass Filter Housing	\$54.71
FX6	10" Canister, Empty	\$14.70

10" Polymicro Filter Cartridges

These cartridges are made through an exclusive process that thermally bonds 100 percent pure polypropylene micro fibers with lower density at the outside surface and progressively higher density towards the center. Made from NSF certified materials, they are ideal as a prefilter or final filter. Fit standard 10" filter cartridges.

PFCM♦	1 micron	\$5.70
PFC5M	5 microns	\$5.70
PFC10M	10 microns	\$5.70
PFC25M♦	25 microns	\$5.70
PFC50M♦	50 microns	\$5.70
PFC75M	75 microns	\$5.70
PFC100M	100 microns	\$5.70

20" Filter Cartridges

This 20" filter housing is NSF listed and doubles the flow rate of the 10" housings (10 to 12 gpm). Housings are rated at 25 psi at 125°F, have EPDM and silicone O-rings with ¾ " FNPT inlet and outlet, polypropylene plastic, weigh 3 lbs. Fit pleated filters, polypropylene filter cartridges and other standard 20"

FH800◆	Filter Housing, 20"	\$67.84
FH803♦	0.35 micron Filter	\$41.40
FH801	1 micron Filter	\$41.25
FH805	5 micron Filter	\$19.20
FH820♦	20 micron Filter	\$19.20

Wound Polypropylene

These cartridges are long lasting. The filtration level increases when the water moves towards the center of the cartridge.

FX1	1 micron	\$10.65
FX5	5 microns	\$10.65
FX10	10 microns	\$10.65
FX25	25 microns	\$10.65
EVEO	50 microns	¢10.65

Matrix Carbon Filters

These high capacity, extruded carbon filters provide superior filtration and chemical absorption. They provide 99.6+% reduction of 1 to 2 micron particles, lead reduction to below NSF and EPA guidelines of 15 ppb, Cryptosporidium cysts and other disease causing bacteria removal and NSF Class 1 chlorine and turbidity reduction standards compliance.

FX3♦	10" x 21/2" Cartridge	\$9.00
FHX3♦	20" x 2½" Cartridge	\$18.00
14-GCB2-10	20" x 41/3" Cartridge	\$62.80

Large Light-Weight Filter

This filter housing while being light-weight is extremely durable with a long life span. The metal free and chemically neutral housing is compatible with almost every water condition including corrosive and saltwater set-ups. These housing accept a wide variety of cartridges from carbon to pleated to micro string allowing you to adapt it to many different applications without replumbing or buying a new filter housing. The small foot

print of these filter housings means that they don't take up as much room allowing then to be retro-fitted into small fish rooms. Additionally the tool free design allows cartridges to be easily changed by anyone in the facility. Filter housing includes a full assembly with bottom stand. Inlet/outlet is 2½" but includes an adapter tee for either 2" slip or 1½" slip.

	Description	Micron	Max Flow Rate	
Z0084OXB_00	Filter Housing Assembly			\$428.65
CT-03-CB	Carbon Cartridge	3	55 GPM	\$434.50
CT-20-CB	Carbon Cartridge	20	60 GPM	\$400.00
CT-03-CB-AMINE	Chloramine Cartridge	3	55 GPM	\$560.00
CT-2005	String Wound	20	60 gpm	\$260.00
CT5020	String Wound	50	60 gpm	\$238.00
CT-20X	Pleated Filter	20 60 gpm		\$559.00
CT-20XCAR	Pleated Filter with Carbon Core	20	60 gpm	\$735.00
CT-COMM1A	High Flow Pleated Filter	1	50 gpm	\$422.00
CT-COMM05	High Flow Pleated Filter	5	150 gpm	\$343.00
CT-COMM20	High Flow Pleated Filter	20	150 gpm	\$325.00
CT-COMM50	High Flow Pleated Filter	50	150 gpm	\$329.00
CT-COMM150	High Flow Pleated Filter	150	150 gpm	\$406.00



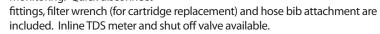
Three Stage R/O Systems

Dolphin R/O systems have a high efficiency 1 micron sediment prefilter, 2 micron carbon block filter (Add "C" to part number to add a Chloramine Blaster Filter) and high flow/ high rejection Dow® R/O membrane providing excellent water purification. The included 160 psi pressure gauge and clear 10" filter cartridge housings allow full system monitoring. Quick disconnect fittings, filter wrench (for cartridge replacement) and hose bib attachment are included. Inline TDS



Four Stage R/O and DI Systems

Barracuda R/O DI systems have a high efficiency 1 micron prefilter, 2 micron carbon block for VOC reduction (Add "C" to part number to add a Chloramine Blaster Filter), high flow/high rejection Dow® R/O membrane and colour indicating deionization resin for lab grade water. The included 160 psi pressure gauge and clear 10" filter cartridge housings allow full system monitoring. Quick disconnect



	Max Flow		Price for "C"
AFX50	50 gpd	\$424.00	\$533.00
AFX100	100 gpd	\$443.00	\$552.00
AFX200	200 gpd	\$570.00	\$679.00
AFX300	300 gpd	\$642.00	\$752.00

Five Stage R/O and DI Systems

Mako R/O DI systems have a high efficiency 1 micron sediment prefilter, 2 micron carbon block for VOC reduction (Add "C" to part number to add a Chloramine Blaster filter), high flow/ high rejection Dow R/O membrane and 2 colour changing deionization resins for the highest water purity. The included 160 psi



pressure gauge and clear 10" filter cartridge replacement) and hose bib attachment are included. Inline TDS meter and shut off valve available.

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	Max Flow		Price for "C"
AFX51	50 gpd	\$517.00	\$626.00
AFX101	100 gpd	\$535.00	\$644.00
AFX201	200 gpd	\$663.00	\$772.00
AFX301	300 gpd	\$790.00	\$900.00

Aqua R/O Accessories

AFXWR	Filter Wrench	\$4.80
AFXPG	Gauge & Tee, %" MNPT, 160 psi	\$28.50
AFXASO	Shut-Off Valve	\$81.75
AFX10C	Replacement Canister	\$31.50
AFXBLCART	Replacement Chloramine Blaster Cartridge	\$27.75
AFXDI	Replacement Deionization Cartridge	\$31.65
AFXCF	Replacement Carbon Cartridge	\$12.00
D I 4	TEC Manulanana	

Replacement TFC Membranes

AFX50M	50 gpd	\$68.8
AFX100M	100 gpd	\$74.8



R/O Booster Pump

Designed specifically for reverse osmosis systems, this inline pump boosts incoming tap water pressure that is too low for optimal R/O performance. The pump adds about 50 psi to your line pressure. Pump comes with sound dampening material for guiet operation. It is 24 V DC and includes a 115 V AC power transformer. 3/8" FNPT inlet and outlet. The maximum flow rate is 300 gpd (gallons per day). Order optional adjustable pressure switch if using with a float valve. Weighs 10 lbs.

BP8800♦	R/O Pressure Pump	\$208.50
ZG439052	3%" x 1/4" TXT Bushing	\$5.25



Important

We have tried to make this catalogue as comprehensive and factual as possible. However, we reserve the right to make changes to prices without notice. Manufacturer's specifications may change without notice.

NOTT

R/O Filters

RTL Commercial Cartridge Filters

These small footprint filters allow you to filter up to 100 gpm each. Additionally they will filter down to 20 micron with the standard filters. These are outfitted with a 2" slip inlet and outlet to maximize water flow. Unit can also be converted to a carbon filter by removing cartridge and replacing it with a filter bag filled with carbon.

	Description	Size	
R172502	25 ft ² , 20 micron filter	8¼" dia x 18" high	\$270.40
R172503	75 ft ² , 20 micron filter	81/4" dia x 25" high	\$356.00
R172505	100 ft ² , 20 micron filter	8¼" dia x 31½" high	\$393.65
R172452	Base for all filters	\$11.80	
R173429	Repl. Cartridge 20 micron,	\$45.70	
R173435	Repl. Cartridge 20 micron,	\$95.60	
R173436	Repl. Cartridge 20 micron,	\$138.65	



M Series Commercial Cartridge Filters

These filters offer a high level of customization as they can be set up in multiple flow levels and filters types. We have listed here the mechanical filter options but the same housing can be converted to chemical or heater units. These units include a 20 micron cartridge and can also accept a 100 micron screen cartridge filter. All cartridges are 291/4" tall and have a 2" slip inlet and outlet

	Area	GPM	Dimensions		
R176131	12.5 ft ²	12.5	9¼"x 5½" x 39½" h	\$173.75	6
R176132	25 ft ²	25	15¼"x 6" x 39½" h	\$277.00	
R176133	37.5 ft ²	37.5	22"x 6" x 39½" h	\$454.60	
R176134	50 ft ²	50	18"x 11¾" x 39½" h	\$589.10	1
R176136	75 ft ²	75	24"x 11¾" x 39½" h	\$810.20	-
R172045BX	0 to 30 PS	l Gauge	\$15.00		
R172045AX	Gauge Ac	lapter an	\$11.60	(7)	
R172012X	3" cap wit	h ¼″NP1	\$13.55	1	
R172010	29¼"Rep	l. Cartrid	\$23.75		
R172028	29¼"Rep	l. Cartrid	\$42.20		
R175055	29"Chemical Retainer Chamber with Retain			\$97.00	

Sedna 1000 Filters

Get top-end filter performance with low maintenance! The single piece base/tank is constructed of fiberglass-reinforced polypropylene for improved strength and chemical resistance. The manual air relief valve and continuous internal air relief work together to maintain optimum filtration efficiency at all times. The unit's innovative clamp ring design makes it easy to remove and rinse the cartridge, and the cartridge's surface is designed to block and trap as many solids as possible. 11/2" drain and washout allow quick and convenient maintenance, and 2" plumbing provides maximum flow. One

ear limited w	varranty.				•			•	J.
	Filtration Area	Flowrate	Dim A	Dim B		Repl. Cartridge (Add C)			de -
S1000-50	50 ft ²	19 - 50 gpm	18"	30"	\$332.10	\$57.75			77 (8)
S1000-75	75 ft ²	28 - 75 gpm	25½"	39"	\$425.25	\$74.85			
S1000-100	100 ft ²	38 - 100 gpm	33"	61″	\$542.70	\$91.80			
S1000-150	150 ft ²	56 - 150 gpm	40½"	76"	\$723.45	\$121.05		_	THE RESERVE
S1000-200	200 ft ²	75 - 200 gpm	401/2"	76"	\$842.70	\$150.90		(3)	-
	1	В							
- 15-1/24 D	n. —	Carl State				3	9	6	

Inline Strainers

These clear inline strainers are convenient for many line filtering applications, such as separation of sand from well water. When used with a drain valve (1/2 " FNPT), filtrate can be emptied without interrupting the flow. Polyester mesh. Not recommended

for use with organics, as "sliming" of the screen will result. One year warranty.

		,	,
50 gpm M	odels		
	Mesh	Inlet/Outlet	
FSA40	500	1½ "Slip	\$152.00
FSA60	250	1½ "Slip	\$152.00
FSA100	140	1½ "Slip	\$150.00
FSA250	60	1½ "Slip	\$150.00
FSA500	30	1½ "Slip	\$148.00
100 gpm /	/lodels		
	Mesh	Inlet/Outlet	
FSB40	500	2"Slip	\$228.00
FSB60	250	2"Slip	\$228.00
FSB100	140	2"Slip	\$224.00
FSB250	60	2" Slip	\$224.00
FSB500	30	2" Slip	\$222.00

50-gpm Filter 100-gpm Filter 90 80 70 60 50 40 30 20 10 3 456 1 2 3 4 5 6 7 8 Pressure Loss (PSI) with 140 mesh Screen

Dewatering Bags

Dewatering bags have been used for removal of solids from aquaculture waste, industrial waste, municipal sludge and dredged materials, thus eliminating the need for mechanical dewatering. They have also been used in breakwater applications to protect and enhance beach fronts and coastlines or as dikes to preserve and reconstruct eroding embankments.

Dewatering bags are fabricated from a strong, woven geotextile material with special high-strength sewing techniques. The geotextile fabric is permeable to water while retaining solids, sludge or dredged materials. Excess water drains from the bag through small pores, resulting in effective dewatering of the contained material. This volume reduction allows for repeated addition of solids to the bag. After dewatering, the dried solids can be used to fertilize crops, burned or disposed of in a landfill.

Three standard sizes of are available all 3 meters wide. Custom sizes are also available based on flowrates and/or volume. Please call for more information.

ENVBAG1	Dewatering Bag, 3 meters x 5 meters	\$250.00
ENVBAG2	Dewatering Bag, 3 meters x 10 meters	\$350.00
ENVBAG3	Dewatering Bag, 3 meters x 15 meters	\$450.00

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MultiCyclone Pre-Filter

- Capable of removing 80% of 30 micron and larger particles
- Maximum Pressure of 50 PSI
- · NSF Certified

MultiCyclone is a revolutionary new prefiltration device which captures 80% of the dirt load before it ever reaches your filter to greatly reduce filter backwashing and maintenance. Easily installed on any existing filtration system, ideal as a pre-filter to extend the life of your existing filter. The MultiCyclone works on the basis of centrifugal water filtration. There are no moving parts to wear out and no filter media to clean. Reduces backwash frequency for sand filters and extends media life. Also reduces maintenance and extends the life of the cartridge in cartridge filtration systems. Traps sediments between 10 to 100 microns. The clear sediment chamber is allows you to visually monitor sediment levels. UV resistant



TRATION

Vortex Filters

and corrosion proof. 1" purge valve. Two year limited warranty. WC200371 11 to 80 gpm, 11/2" unions \$441.80

WC200370♦	13 to 132 gpm, 2" unions	\$535.00

Wave Vortex Chambers

Filters up to 150 gpm Vortex swirl separators are popular solids filters for use with koi ponds and fish tanks. They are very good at removing heavy particles and wastes. You can gravity flow water from a bottom drain or pump it to the vortex chamber. These stand about 51/2 ft high with the 2'high base. All connections are 3" slip.

- Sturdy double wall base support. • Three outlet ports allow body to be
- connected in any direction.
- Domed lid keeps it clean.

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- Coned bottom allows complete drainage.
- Rubber connections eliminate the need to precisely align filter with pipes.
- Comes with drain valve, rubber couplings, bulkhead, lid, body and base. We recommend using the WLS2 pump trap listed below if pumping to the filter. One year warranty on body.

Elow Pate

930199	Fitting Kit for Vortex chan		\$85.50	
WLF48F	Voetex Tank & Lid Only	48" Dia	9,000 gph	\$1,756.80
WLF36F	Vortex Tank & Lid Only	36" Dia	6,000 gph	\$1,438.32
			riow nate	



•-Standard Stock Item

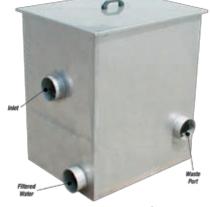
Parabolic Screen Filter

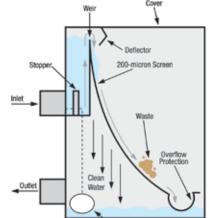
These semi self cleaning filters are designed to remove solids from water with only occasional cleaning attention. They use a wedge wire, 304 stainless steel screen set in a parabolic shape to take advantage of the Coanda effect. This shape encourages solids free water to drop between the screens and solids to be left on the surface of the screen. The solids are then pushed toward the waste trough and easily washed into a waste tank. This filter is ideally suited for a gravity flow system, as it will only cause about 2' of head loss. It has a 300 micron, removable screen. All ports are 4", except clamps

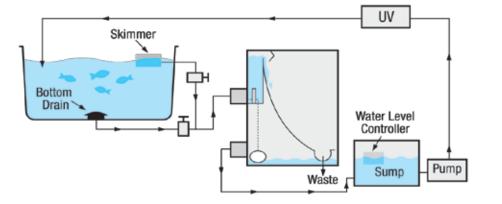
the inlet port on the larger filter, which is 6". Rubber couplings with clamps are included. Fresh water use only.							
I x w x h Max Flow Rate							
2875	25"'x 10" x 32"	70 gpm	\$2,955.00	Mall			
2873	25" x 20" x 32"	150 gpm	\$3,507.00				











Rotodisc Leaf Filter

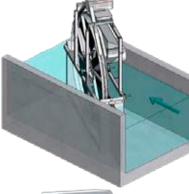
The Rotodisc leaf filter is a robust machine that will remove debris from inlet water to prevent equipment fowling by leaves, twigs or other problematic debris. With a flow rate up to 500 liters per second (132 gps) this filter can handle the large volumes of water that a fish farms needs. The large 2,200 mm diameter screen provides a large surface area to prevent clogging and can be supplied in either a 10 mm or 20 mm mesh that rotates 4 turns per minutes. Because of the versatility of the installation options this unit can be installed in channels down to 1 meter wide. The unit is optimized with a low water consumption rinsing system. Low maintenance with the drive belt Rotoclean

technology mounted on the Faivre drum filters for 10 years.

Each unit comes standard with a 0.55 kW motor, electrical box and submersible rinsing pump. Made entirely using 304L or 316L stainless steel (for sea water), please specify application at the time of ordering.

ROTODISC

Call For Pricing





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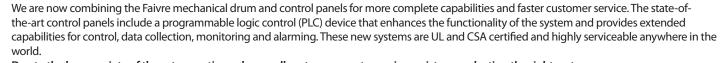
Faivre Drum Filters

Self-cleaning to 12,000 gpm

- Stainless steel (SS) filters* with SS or high-density polyethylene (HDPE) tank.
- · Units on frames are all SS.
- Replaceable multipiece 20 to 100 micron (µ) screens.

These high quality, self-cleaning rotary drum filters are an excellent choice for high volume solids removal. They are especially well-suited for low head loss and high-volume applications common to aquaculture and industry. System water flows by gravity to the drum filter and then through the screen. Solids are removed by the screen and then from the screen with a water washbar and directed to the sludge drain. Filter also includes an overflow drain. Complete models include power backwash, water level switch, stainless steel screens and lid. We recommend 304L SS for freshwater and 316L SS for saltwater applications. Applications include:

- Recirculating aquaculture · Flow through aquaculture.
- · Zoological exhibits/Large aquariums.
- Industrial filtering
- · Waste water.



FAIVRE

Due to the large variety of the set-up options please call customer care to receive assistance selecting the right system. Options: With or Without tank, screen pore size, control panel, voltage and phase required, freshwater or marine application and other options.

Allow 8 week	s for del	ivery.													
Screen Size					Wa	ter Flow	(GPM) w	ith Maxi	mum 10	mg/L of W	aste /				
Filter Model	1-40	2-60	2-80	4-80	3-120	6-120	9-120	4-160	8-160	12-160	16-160	20-160	24-160	28-160	32-160
20 μ	55	127	206	412	317	634	983	444	872	1,300	1,744	2,156	2,600	3,012	3,487
30 μ	103	222	365	729	555	1,110	1,617	713	1,490	2,219	2,917	3,646	4,439	5,231	6,024
40 μ	111	238	412	824	667	1,300	1,950	888	1,775	3,519	2,695	4,439	5,231	6,182	7,133
60 μ	174	317	539	1,078	808	1.664	2,457	1,110	2,219	4,439	3,329	5,548	6,658	7,609	8,719
80 μ	158	349	602	1.205	935	1,760	2,853	1,268	2,600	4,914	3,868	6,182	7,450	8,719	10,145
100 μ	190	428	713	1,427	1.110	2,061	3,329	1,506	3,091	5, 865	4,597	7,292	8,719	10,304	11,889
					Wa	ater Flow	(GPM) w	ith Maxi	mum 25	mg/L of W	laste				
Filter Model	1-40	2-60	2-80	4-80	3-120	6-120	9-120	4-160	8-160	12-160	16-160	20-160	24-160	28-160	32-160
30 μ	48	111	206	412	285	650	951	428	872	1,268	1,775	2,140	2,616	3,012	3,408
40 μ	71	159	285	571	380	856	1,300	587	1,173	2,314	2,933	3,567	4,439	4,042	4,597
60 μ	111	238	396	793	523	1,205	1,839	793	1,617	3,170	4,042	4,756	5,231	5,548	6,341
80 μ	174	301	507	1,015	666	1,458	2,283	1,030	2,457	3,963	5,073	6,103	6,658	7,133	8,085



Drum Filters

TRATION

Ozone Generator System

- · OZ8 Ozone Generator
- · Variable output, 0-8 grams per hour of ozone. Manual output control with reference meter. Air cooled.
- 12 SCFH Oxygen Concentrator
- Up to 12 SCFH oxygen flow at 10 PSIG.
- · Backflow Prevention Device
- Power to open, spring to close actuator with drain and manual outlet valve. Interlocked to stop system if back flow event should occur.
- · Measures gas flow, gas pressure and oxygen concentration. Interlocked to stop ozone production on alarm.
- · Ambient Ozone Monitor
- 0-2 parts per million, two alarm levels.
- Interlocked to stop ozone production on high ambient ozone alarm.
- ORP Monitor and Sensor with 3 Meter Cable
- Integrated to stop ozone production on high ORP alarm.
- 10' of 1/4" PTFE Tubing to Process

System Features

- Wall mounted, single point electrical.
- 120 V AC, 60 Hz, 1 phase, 20 amp service.
- Dimensions: 36" x 38", 139 pounds.
- One year warranty on parts only.

IOSYS1 Ozone Wall Mounted system on skid \$14,280.00 OWS-OM2 **Ambient Ozone Monitor** \$4,455.00



Eclipse Ozone Generators

The DEL OZONE Next Generation Eclipse Ozone Systems are compact and provide dependable, low-maintenance operation. Cabinets are made of extruded aluminum with molded plastic end caps and are wall-mountable. Electrodes are rated for 15,000 hours of operation at over 80% capacity. Power supplies are rated to operate for the life of the generator under normal conditions. Generators may be operated in a vacuum or with positive pressure.

When using oxygen as feed gas, you can expect approximately twice the concentration than with air as feed gas. Air compressor not included. All models require 0.25 cfm feed gas (air or oxygen). 1/4" hose inlet and outlet. UL- and cUL-listed. 115V/60 Hz. One year warranty.

- Improved water quality and clarity
- Kills up to 99.99% of harmful microorganisms
- Minimized operating and maintenance cost
- No unpleasant chemical odors
- High ozone output, low energy cost
- No Air Dryer required

	Avg O ₃ Conc.	O₃ Output	Amps	Dimensions	The second second
ECL10	450 ppm	0.25 grams/ hour	0.06	2.5" x 7.8" x 8" h	\$612.75
ECL20	700 ppm	0.5 grams/hour	0.12	2.5" x 7.8" x 14" h	\$943.50
ECL40	1,350 ppm	1.0 grams/ hour	0.24	2.5" x 7.8" x 24" h	\$1,416.00
90150E	Accessory Packa	ge without Mazzei Injec	tor		\$42.60
90210E	Accessory Packa	ge with Mazzei Injector			\$217.35

PTFE Tubing

Ozone resistance is the reason most people select PTFE tubing. It is a flexible thermoplastic, highly resistant to oxidizing agents. A nearly complete resistance to alcohols, acids, bases and chlorinated solvents makes it excellent for the delivery of ozone. It remains flexible at extreme temperatures and is nontoxic. We recommend using brass or stainless steel fittings with this tubing.

	Length	I.D.	O.D.	
8069	per Foot	1/4"	5/16"	\$5.85
8069R	50'roll	1/4"	5/16″	\$216.15
8135	per Foot	1/2"	5/8"	\$30.60
8135R	50'roll	1/2"	5/8"	\$1,147.50



Ozone Tubina

This ozone-resistant neoprene tubing will not crack or harden and is much more flexible than PVDF tubing and PTFE.

	Length	I.D.	O.D.		
TN8	8′	3/16"	1/4"	\$25.50	1
TN25	25′	3/16"	1/4"	\$67.20	(
TN50	50′	3/16"	1/4"	\$106.80	•



Desiccant

Silica with indicator is an all purpose desiccant. Can be used with drying tubes or desiccators. As the silica absorbs moisture. the colour changes from blue to pink. Can be regenerated by heating in an oven at 350°F for approximately 20 minutes.





Degassing Columns

Nitrogen gas kills fish at only 3% above saturation!

Degassing columns are used for removing nitrogen, hydrogen sulfide, carbon dioxide or other gases from water. They also add oxygen to under saturated water. In most areas, well water (ground water) is low in oxygen and too high in nitrogen, hydrogen sulfide and carbon dioxide. In recirculating aquaculture, where pure oxygen is used, carbon dioxide levels can rise to narcotic or toxic levels. Degassing columns are the best way to strip out undesirable gases. The hydraulic design and high surface area of these units make them very suitable for "tricking biofilters" for ammonia removal. Our unique segmented packed columns are the result of extensive research and development by the Canadian government. They are simple, economical and will last for many years. Each segment is made of heavy duty, UV resistant polyethylene for outdoor use. They are engineered to produce the ideal flow pattern to prevent wall channelization while exchanging air at each segment. Install just the number of segments to give the water quality needed. Each segment can receive as much as 150 gpm with excellent aeration and gas stripping results.

Each segment (16" D x 18" H) has a molded bracket that fits onto an optional hanger. The 6' H x 4" W hanger is a fiberglass I-beam, pre-drilled for 4 segments (bolts included). Snap the segments onto the hanger and either hang it from the ceiling, attach it to the tank wall, or to a post, so the water goes in the top and exits directly into the tank. Each segment should be filled with 0.6 cubic feet of media.

Packed Column Segments \$91.65 **AB12A** Optional Hanger \$240.00

Telpac Degassing Media

Telpac media is design as a long life degassing media. This media creates uniform liquid distribution throughout the column sections, increasing air

contact and gas release. High structural strength for the media prevents compacting over time allowing for long term use. Telpac is installed by simply pouring media into containers, no specific alignment is necessary. Sold per cubic foot.

TELPAC per Cubic Ft.



	% Oxygen	% Nitrogen
Inlet Water	57	110
Outlet Water After 1 Segment	76	106
Outlet Water After 2 Segments	84	104
Outlet Water After 3 Segments	89	103
Outlet Water After 4 Segments	92	102
Outlet Water After 5 Segments	94	101

\$49.00 esults are from a formal study conducted by the Canadian government.

SMART UV Sterilizers by Emperor Aquatics

Indoors or outdoors. These high quality ultraviolet sterilizers feature a watertight sealed design and can be used safely both indoors and outdoors. They are UL listed and compact, making them an excellent choice for everything from small koi ponds to large recirculating systems. Units can be operated in any position and feature GPH/T5 lamps with 9,000 hours (375 days) of effective life. These SMART UV units feature remote style ballasts with 16' power cords. Inlet and outlet are 11/2" slip union. All units have a max operating pressure of 50 psi. Units are 115 V, 60 Hz, with a one year warranty on ballasts, lifetime warranty on the 3"housing and 90 days on lamps. UL listed. Choose from the standard model (S) or the wiper model (W)

Watts	Full Load Amps	30 μWs/cm² GPM	180 µWs/ cm² GPM	Overall Length	S Model	W Model
18	0.34	6	0.8	23"	\$523.00	\$630.00
25	0.40	9.5	1.0	30"	\$575.00	\$693.00
40	0.44	15.5	2.8	44"	\$626.00	\$725.00
65	0.46	26	5.3	71″	\$804.00	\$990.00
	18 25 40	Watts Amps 18 0.34 25 0.40 40 0.44	Watts Amps GPM 18 0.34 6 25 0.40 9.5 40 0.44 15.5	Watts Amps GPM cm² GPM 18 0.34 6 0.8 25 0.40 9.5 1.0 40 0.44 15.5 2.8	Watts Amps GPM cm² GPM Length 18 0.34 6 0.8 23" 25 0.40 9.5 1.0 30" 40 0.44 15.5 2.8 44"	Watts Amps GPM cm² GPM Length SModel 18 0.34 6 0.8 23" \$523.00 25 0.40 9.5 1.0 30" \$575.00 40 0.44 15.5 2.8 44" \$626.00

Replacement Parts

Replacement parts for standard Emperor SMART UV Sterilizers



	18	watt	25 watt		40 watt		65 watt	
Lamp	EB18	\$75.40	EB25 ♦	\$80.60	EB40 ♦	\$81.90	EB65	\$95.45
Quartz Sleeve	EQ18	\$39.00	EQ258\$	\$36.40	EQ408 ♦	\$52.00	EQ65	\$49.60
Ballast	20240+	\$165.00	20240+	\$165.00	20240+	\$165.00	20240♦	\$165.00
Seal Kit	20376♦	\$37.00	20376♦	\$37.00	20376♦	\$37.00	20376♦	\$37.00
4 Pin Lamp Connector	20078♦	\$21.50	20078♦	\$21.50	709-15	\$9.62	709-15	\$9.62

•-Standard Stock Item

Degassing Column & Ultraviolet Filters

Pure quartz material resists solarization and improves the longevity of the bulb. Unique test tube style pure hard quartz sleeve isolates the bulb from water contact preventing thermal shock, broken glass and mercury contamination of the water. The quartz sleeve also makes bulb changing the easiest in the industry. Simply unplug the ballast, slide the old bulb out and slide the new bulb in. No need to shut down the filter system or turn off the pump. Bulb and ballast connect together with a single 4 pin connector. UV sterilizers are available from 15 watts up to 240 watts. UV sterilization is most effective when used as the final stage of a filtration

FEATURES

- Splash Boot creates water resistant seal around electrical connection
- UV Bulb of highest quality pure hard quartz material allows maximum UV transmission and longer bulb life. End cap wire design drops bulb further into unit for maximum output and keeps heat away from sealing area •Compression Coupling and gasket seals quartz sleeve to cap
- •Test Tube style quartz sleeve isolates UV bulb from water contact. Highest quality pure hard quartz material allows maximum UV transmission
- •Replaceable Internal Overflow Pipe automatically vents air from chamber and directs 100% of the water flow past the UV light
- •Sleeve Guide aids the quartz sleeve into proper position for accurate assembly
- •Replaceable Inner protective Sleeve protects outer housing from long term UV damage and acts as an internal reflector maximizing UV efficiency

•Modular Construction allows simple connection to any Lifegard Modular Filter System or outside canister filter •Solid Cap features Clear Viewing Port to allow visible light (no UV) to pass through and indicate bulb is

		Bulb Wattage (Bulb #)	Inlet & Outlet	Dimensions	
QL15	15 Watts	15 (1)	34" & 1" FPT	4¾"x 7"x 17"h	\$219.50
QL25	25 Watts	25 (1)	34" & 1" FPT	4¾" x 7" x 26¾" h	\$271.80
QL40	40 Watts	40 (1)	34" & 1" FPT	4¾" x 7" x 34½" h	\$323.70
QL80	80 Watts	40 (2)	2" slip	15¼"x 6"x 45¼"h	\$704.25
QL120	120 Watts	40 (3)	2" slip	22" x 6" x 45¼" h	\$1,071.20
QL160	160 Watts	40 (4)	2" slip	18"x 11¾"x 45¼"h	\$1,378.50
QL240	240 Watts	40 (6)	2"slip	24" x 11¾" x 45¼" h	\$2,031.60

Parts

	15 watt		25 watt		40 watt	
Lamp	QL15B	\$68.20	QL25B	\$79.05	QL40B	\$100.15
Quartz	QL15Q	\$37.50	QL25Q	\$51.00	QL40Q	\$96.90
Protective Sleeve	QL15P	\$10.40	QL25P	\$12.60	QL40P	\$14.70
O-Ring	QLORING	\$3.60	QLORING	\$3.60	QLORING	\$3.60
Gasket	QLGAS	\$4.50	QLGAS	\$4.50	QLGAS	\$4.50
Ballast	QLBAL	\$89.25	QLBAL	\$89.25	QLBAL	\$89.25

Hoss Series UV System

Quality craftsmanship meets superior design to deliver years of dependable and trouble-free operation. HOSS Series SafeGUARD UV Systems combine the latest, most efficient Low-Pressure (LP) UV lamp technology with robust stainless steel UV vessel construction to create a versatile, high-quality UV system suited for freshwater Aquaculture and light-industrial applications. HOSS UV Systems feature a thermoplastic NEMA 4X or Type 12 power supply enclosure mounted to the UV vessel brackets, allowing 4-way orientation for either horizontal or vertical system mounting. HOSS controls consist of analog re-settable hour meter, lamp-status LEDs, input power LED, and external on/off switch. Single-end UV lamps and quartz sleeve access allows for quick-easy servicing. Cable hardware protects lamp connections from water damage and is durable and inexpensive to replace. Maximum of 50 psi.

	Total Watts (Lamps)	Output Watts	UV Dim.	Power Enclosure Dimensions	Inlet/ Outlet MNPT	Max Load Amps	30 μWs/cm² GPM	180 μWs/cm² GPM	
COM480HOSS	80 (1)	27	42"x 11"	10½"x 7¾"x 12½"h	2"	1.25	47	8	\$6,467.00
COM4160HOSS	160 (2)	54	42"x 11"	10½"x 7¾"x 12½"h	2″	2.5	75	12	\$7,217.00
COM4240HOSS	240 (3)	81	42"x 11"	10½"x 7¾"x 12½"h	2"	3.5	112	18	\$5,286.00
COM4320HOSS	320 (4)	108	42"x 11"	10½"x 7¾"x 12½"h	2"	5.0	146	27	\$8,802.00







Emperor Aquatics SMART High Output UV Sterilizers

These commercial sterilizers feature high output (HO), T6 style lamps that offer approximately twice the UV output of standard low pressure UV lamps with the same arc length. Increased output means increased performance in a unit that requires less space. SMART HO units are designed to operate safely in a wet environment and are UL listed.

UV vessels are built of a UV resistant, high density plastic and feature removable end caps to provide easy access. Internal viewing ports allow visual indication of lamp status. Units have 2"slip unions and 5¾" diameter housings. A 10' cable to ballast and 6' cord to plug. 115 V, 50/60 Hz. One year warranty does not include lamps or sleeves. UV housing carries lifetime warranty.



TRATION

Ultraviolet Filters

	Watt	Size	GPM*	Max. Size Aquarium	OAL	Standard	Wiper
E50S	50	2"	33/26	500 gal	28"	\$1,087.50	\$1,452.90
E80S	80	2"	60/45	900 gal	43"	\$1,150.50	\$1,518.00
E120S	120	2"	77/64	1,200 gal	56"	\$1,236.00	\$1,627.50
E150S	150	2"	106/84	1,600 gal	70"	\$1,500.00	\$1,801.50

^{*}Flow rate listed is in gpm at 30,000 µWs/cm² and based on a new lamp (100%) for the first number and a lamp at 9,000 hours (60%) for the second number.

Replacement Parts

	50 wat	t		80 watt	_	120 watt		150 watt
Lamp	20050	\$89.10	20080	\$100.80	200120	\$114.55	200150	\$127.30
Quartz	EQ258*	\$36.40	EQ408 ♦	\$50.90	EQ120	\$59.80	EQ658	\$49.60
Seal Kit	20376+	\$36.40	20376♦	\$36.40	20376+	\$36.40	20376+	\$36.40
Connector	709-1S	\$9.41	709-15	\$9.41	709-1S	\$9.41	709-15	\$9.41
Ballast	20105	\$183.40	20105	\$183.40	20105	\$183.40	20150-1	\$330.90

Ultraviolet Sterilizers Sizing

In order to protect aquatic livestock held in aquariums or holding tanks, biologically treated water should be adequately disinfected before returning it from the filter system. Mechanical and biological filtration does not provide inactivation of pathogenic bacteria, protozoa and viruses.

Ultraviolet radiation (germicidal) energy is unmatched in its efficiency, simplicity and dependability when applied as a microorganism disinfectant! It is most effective for its germicidal value in a clear water application at a wavelength of 265 nanometers. With proper exposure, ultraviolet radiation energy (ultraviolet light) penetrates a microorganism's cell wall. It then destroys the nuclear material, causing abrupt modification and quickly bringing about its destruction.

We hear from a lot of people who have ultraviolet (UV) sterilizers and are still experiencing disease problems. This can almost always be traced back to inadequate UV irradiation. Because it is so difficult to measure the intensity of UV energy hitting the water, many buyers have improperly sized their UV sterilizers by simply following the maximum gpm flow rate published for 15,000 μWs/cm^{2*} (who said aquaculture was easy?).

This is the problem! You cannot compare UV sterilizers by the watt ratings alone. That would be like comparing cars by their engine size alone. The watt rating is just the starting point for comparisons.

The full amount of UV energy required to kill a microorganism must hit the organism after the energy leaves the lamp, after it leaves the quartz sleeve, after the lamp has aged and after it has passed by any turbidity and color that block the light.

Low-pressure mercury type UV lamps are best suited to germicidal action because the primary radiation generated by these lamps consists almost exclusively of a spectral wavelength of 254 nanometers, which is close to the maximum peak germicidal effectiveness wavelength of 265 nanometers. This gives the low-pressure mercury type lamps an exceptional 40 percent UV energy efficiency rate between input watts and UV output watts.

Medium- and high-pressure mercury type lamps are best suited for treatments involving chemical by-products associated with industrial waste water or for the drying of printing inks, paints and adhesives, not germicidal action.

The bulk of their power is in the 320 to 440 nanometer range, well outside the germicidal range.

Ultraviolet light can be very effective at eliminating viruses, bacteria, algae and fungi. The required UV exposure rate to irradiate common bacteria is 15,000 µWs/ $cm^2 \text{, while the required UV exposure for waterborne algae is 22,000 } \mu\text{Ws/cm}^2 \text{. Since it is the intensity of light that is doing the killing, we must know how much the required UV exposure for waterborne algae is 22,000 } \mu\text{Ws/cm}^2 \text{. Since it is the intensity of light that is doing the killing, we must know how much light that is doing the killing in the required UV exposure for waterborne algae is 22,000 } \mu\text{Ws/cm}^2 \text{. Since it is the intensity of light that is doing the killing, we must know how much light that is doing the killing in the required UV exposure for waterborne algae is 22,000 } \mu\text{Ws/cm}^2 \text{.}$ light energy to use and how much is reaching the target. Just as some sunglasses and sunscreens reduce UV intensity, so do discolored water, turbidity, dirty quartz sleeves and even some dissolved salts, such as sodium thiosulfate. Lamp temperatures may even reduce output when operated in cold water (110°F gives maximum UV output).

To ensure sterile water using UV light, first start with clear water, and have a lamp and flow rate that are sized to deliver the correct amount of irradiation for the target organism (see exposures list). If a UV light is flow rated for 15,000 µWs/cm² and you want 30,000, either double the number of lamps or reduce the flow by

Be aware that some lamps age rapidly, and the manufacturer probably states the watts produced when the lamp is new. This wattage can be reduced by as much as 40 percent in as few as six months! We suggest oversizing the UV sterilizer by at least 40 percent to be sure of getting the killing power required when the lamp has aged. We also suggest changing lamps at six-month intervals. For a more in-depth look at UV sterilization we would be happy to help. * μ Ws/cm² = exposure to ultraviolet light of 253.7 nm wavelength in microwattseconds per square centimeter.

Exposures F	Required to	Kill 99.999% of	f Micro-Organism
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Chlorella Vulgaris (algae)	22, 000 μWs/cm ²
Aeromonas salmonicida (bacteria)	3, 600 μWs/cm ²
Psedomonas fluorescens (fin rot)	11, 000 μWs/cm ²
Myxobolus cerebralis (TAMs, Whirling Disease)	40, 000 μWs/cm ²
Cryptocaryon irritans (marine white spot)	280, 000 μWs/cm ²
KHV (koi herpes virus)	4, 000 μWs/cm ²

Ichthyophthirius multifiliis (ich, freshwater white spot	t) 100, 000 μWs/cm ²
IHNV (Infectious Hemetopoietic Necrosis/RTTO)	30, 000 μWs/cm ²
VHS (Viral Hemorrhagic Septicemia)	32, 000 μWs/cm ²
IPNV (Infectious Pancreatic Necrosis Virus)	246, 000 μWs/cm ²
Saprolegnia sp. (egg fungus)	35, 000 μWs/cm ²
E. coli (coliforms)	6,600 μWs/cm ²

Submersible Heaters

EATERS

29

CH1L

Lifegard Adjustable Quartz Glass Heaters

Submersible shatterproof quartz heater safe for freshwater and saltwater tanks. Easy to set thermostat features LED power indicator light showing operation. Quartz glass tube, 6' power cord and suction cup mounting brackets are all included. Built in thermal protection help reduce damage from overheating.

	Size	Length	Max Tank Size	
R8100	25 Watt	9"	10 gallons	\$29.90
R8101	50 Watt	9″	20 gallons	\$30.40
R8102	75 Watt	11"	30 gallons	\$30.80
R8103	100 Watt	11"	45 gallons	\$31.20
R8104	150 Watt	12"	65 gallons	\$31.90
R8105	200 Watt	13¼"	85 gallons	\$33.70
R8106	250 Watt	141⁄4″	110 gallons	\$34.10
R8107	300 Watt	15¼"	150 gallons	\$34.90

Glass Adjustable Heaters

Penn-Plax glass aquarium heaters are designed to allow the user to set a temperature between 68 to 89°F (20 to 32°C). These unit will be set at 76°F (28°C) but can be easily adjusted to the desired temperature with the top dial. An LED light on the unit will indicate with the heating element is in use. The internal thermostat will regulate the element to turn on only when the water temperature drops.

CH825	25 watt	7" long	\$27.30
CH850	50 watt	7" long	\$30.00
CH8100	100 watt	8" long	\$31.10
CH8150	150 watt	10"long	\$34.30
CH10200	200 watt	10"long	\$34.30
CH12300	300 watt	12"long	\$36.50

Hydor Theo Submersible Heaters

These new heaters are the safest submersible heaters we could find in the market today. They are completely submersible, UL approved, saltwater compatible and shatterproof! Instead of the typical metal element in a breakable glass tube, these heaters utilize a polymer sheet that uniformly heats a shatterproof glass tube. The temperature is controlled and maintained by a highly precise micro-switch controller, adjustable from 70 to 89°F. Heaters are 115 V, 60 Hz with a 6' cord. One year warranty

warrarity.			
	Watts	Length	
T11702	25	7″	\$30.30
T11102	50	7″	\$32.25
T11202	100	9″	\$34.35
T11602	150	12"	\$38.70
T11302	200	12"	\$40.20
T11402	300	15½″	\$45.30
T11502	400	15½″	\$48.15



Simply the most technologically advanced heaters available today, the Fluval E series advanced electronic aquarium heater with VueTech technology delivers

peace of mind by continuously displaying real time water temperature. Equipped with an advanced digital microprocessor monitoring system with dual temperature sensors, the E series continuously monitors and displays aquarium water temperature, ensuring the well being of your aquarium inhabitants. The heater can be used in fresh and saltwater tanks.

	Watts	Tank	
A771	50	15 gal.	\$85.00
A772	100	30 gal.	\$90.00
A773	200	65 gal.	\$95.00
A774	300	80 gal.	\$100.00



FLUVAL "M" Submersible Heaters

The Fluval "M" submersible heater is quality manufactured in Europe using superior components and construction. This sleek, compact Fluval heater can be trusted for exceptional performance and unsurpassed reliability. Unique only to the Fluval "M" series the reflective technology helps maintain the aquariums' natural look as the heater reflects the colours of the surroundings. The heater can be used in fresh and saltwater tanks.

	Watts	lank	
A781	50	15 gal.	\$65.00
A782	100	30 gal.	\$65.00
A783	150	45 gal.	\$70.00
A784	200	65 gal.	\$70.00
A787	300	80 gal.	\$75.00

Marina Submersible Heaters

Small yet powerful, the Marina Submersible Aquarium Heater provides reliable heating for fresh or saltwater aguariums. The heater includes many practical features for easy use, safety and convenience, including an easy-to-access temperature set dial, on/off pilot light indicator, and a bumper guard for fish safety. Made of durable high impact glass, it's built to last under normal aquatic conditions. Temperature heating range 20°C to 28°C (68°F to 82°F). 1.8 metre electrical cord.

C3A approved	•		
MA11230	25 watt	5.5 gal.	\$44.00
MA11232	50 watt	10 gal.	\$44.00
MA11233	100 Watt	30 gal.	\$48.00
MA11234	150 watt	40 gal.	\$50.00
MA11235	200 watt	55 gal.	\$50.00
MA11236	300 watt	80 gal.	\$50.00

Titanium Heaters

TRUE TEMP digital heater controller and titanium heating system. The TRUE TEMP is the most complete heating system to date with the most advanced features that set it apart as the leading heater for professionals and hobbyists.

The digital controller boasts amazing +/- 0.5 °F accuracy, a calibration setting, indestructible titanium heating element with thermal shut off, smart memory chip, LED heating indicator, suction cup heater/probe holders, safety guard, remote temperature probe, and a large constant LED display of the current temperature.

	Watts	
TTH300♦	300	\$62.00
TTH500♦	500	\$71.50
TTH800 ♦	800	\$89.00
TTH1000♦	1,000	\$112.65
TT1000♦	Digital Temperature Controller	\$119.50

Floating Pond De-Icer

Perfect for small fish ponds. This 1,250 watt floating heater is designed to prevent your pond surface from freezing over during

the winter months. The heater turns on/off automatically during times of freezing temperatures (approximately 40°F), and it can be safely positioned around plants or other objects in the pond. 10' power cord, UL listed.



Additional ESA Charge

Please note that there will be an additional charge of \$350.00 per unit to certify the under Canadian ESA regulations. This also increases the lead time by about 1 week.

Inline Heaters

The Aqua Logic® in-line heaters are easy to install and available in both stainless steel and titanium. Stainless steel models are excellent for a variety of applications such as koi ponds and freshwater recirculating systems. Titanium models are ideal



for saltwater systems and hydroponic systems that have nutrients in the water that would cause failure in stainless steel heaters. Designed for indoor use or outdoors (if protected from the sun and direct weather), these robust, durable heaters pack a lot of kilowatts into a very compact package. CE approved.

- Easy to set digital temperature controller °F or °C
- Safety high limit switch to preoverheating with manual reset
- Reversible flow switch allowing water input from either direction (1.5 to 4 kW models)

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event t	Marine annual a	
ng ion		
	6-18	KW

(1.5 to + 1.	VV IIIOC	iCI3)				6-18KW
	KW	Volts	Phase	Amps	Dimensions	
TIL1	1.5	115	1	13	23" x 6" x 8½"	\$1,162.50
TIL2	2	115	1	17.4	23" x 6" x 8½"	\$1,162.50
TIL3	2	220	1	9	23" x 6" x 8½"	\$1,162.50
TIL4	3	220	1	13.6	23" x 6" x 8½"	\$1,312.50
TIL5	4	220	1	18	23" x 6" x 8½"	\$1,395.00
TILO6	6	220	1	28	23½" x 6" x 8¾"	\$2,040.00
TILO7	6	220	3	16	23½" x 6" x 8¾"	\$2,610.00
TILO8	8	220	1	37	23½"x 6"x 8¾"	\$2,092.50
TILO9	8	220	3	21	23½" x 6" x 8¾"	\$2,662.50
TILO12	12	220	1	55	23½"x 6"x 8¾"	\$2,370.00
TILO13	12	220	3	32	23½"x 6"x 8¾"	\$3,000.00
TILO15	15	220	3	40	23½" x 6" x 8¾"	\$3,052.50
TILO18	18	220	3	48	23½"x 6"x 8¾"	\$3,105.00

Heater Sizing

If you are bringing water into your facility that must be heated, you can use an electric heater for all or just a portion of your heating. For instance, you may use solar, waste heat, or room heaters first and use thermostatically controlled electric reference chart to estimate the size of an electric heater. heaters as the final temperature control. To determine the approximate size heater to order, choose ONE of the three categories then follow the calculation.

In a non-flowing system, heat is only lost to the surrounding air. The temperature difference between the air ambient and the water is the biggest factor. Also, the open area of the tank, the amount of agitation, and the heat loss through the tank walls should be considered.

For every 9°F (5°C) difference, there should be 4 watt of heat per gallon (3.8 liters) of water. Elevated, non-insulated tanks, with a large amount of surface agitation, could require as much as 12 watt per gallon per 9°F. For small glass aquaria, use 8 watt per gallon per 9°F.

Temperature Raising Only

Cool water is used to fill tanks and the water needs to be warmed before the fish are added. Time and ambient temperature will be considerations. For every 1,000 gallons (3800 liters), 1,200 watt (1.2 kW) is needed to raise the temperature 10°F (6°C) in 24 hours (this assumes ambient temp is the same as the water).

A flow through system has cool water entering and warmed water leaving (this is very wasteful and expensive without heat exchangers). Determine the maximum gallons per minute that you expect and the greatest temperature difference. 1,000W (1 kW) will raise the temperature of 6 gallons of water (23 liters) one °F (0.55°C) per minute.

www.FishFarmSupply.ca

Quick Heater Sizing Guide for Non-Flow Through Calculation

It is difficult to simplify something that is complicated, but use this quick

A tank with 1,000 gallons is in a room that will stay around 60°F, and you want the water temperature to be 87°F. If 4W per gallon are needed for every 9°F, then: DT = 27° , $27 \div 9 = 3$, $3 \times 4 \text{ W} = 12 \text{ W}$ per gallon, $12 \text{ W} \times 1,000 \text{ gallons} =$ 12,000 W. Assumes one large non-insulated uncovered fish tank plus one peripheral (such as a sand filter), and a pump with no extreme water/air interface (such as splash aerator or degassing tower). Minimize heater size and power use by insulating and covering.

Follow the chart to keep the water at desired temperature, but if a few degrees temperature loss is tolerable during brief periods of cold weather, use that temperature on the chart.

For more accurate sizing, contact us at 877-669-1096.

Tank Size	Temperature Difference ("F)									
(gallons)	9"	13.5*	18"	22.5"	27*					
2000	and the same of	To Date:	- Watts	14/04/04	The same					
250	1,000	1,500	2,000	2,500	3,000					
400	1,600	2,400	3,200	4,000	4,800					
550	2,200	3,300	4,400	5,500	6,600					
700	2,800	4,200	5,600	7,000	8,400					
850	3,400	5,100	6,800	8.500	10,200					
1,000	4,000	6,000	8.000	10,000	12,000					

•-Standard Stock Item

Additional ESA Charge

Please note that there will be an additional charge of \$350.00 per unit to certify the under Canadian ESA regulations. This also increases the lead time by about 1 week.

Air Cooled Heat Pumps

Aqua Logic® Delta Star® Air Cooled Heat Pumps automatically handle both heating and cooling duties in fresh and saltwater applications. Titanium

heat exchangers mean you get the best in corrosion resistance. A properly sized and installed heat pump will provide stable, controlled water temperature. Heat pumps include a dual stage digital temperature controller in a NEMA 4X-rated waterproof enclosure and will maintain water temperatures from 40–85°F (5–29°C). Controller will keep the temperature within 1° of the set point in °F or °C. Heat pumps should be mounted indoors where air temperatures stay above 55° F. One year

Note: When in heating mode, place the unit in a drip pan that has a drain connection as condensation can form a water puddle around the unit.

- · Heat or Chill with one unit
- Fresh or Saltwater use
- Compact Design
- Quiet Operation
- Dual Stage Digital Controller
- Ozone Friendly Refrigerant (134A)



	HP	BTUH	KW	Volts	Amps	In/Out FPT	Flow (gpm) Min/Max	Air Outlet (CFM)	Dimensions $(l \times w \times h)$	
DSHP4	1/3	4,000	1.1	115	7.2	3/4"	10/20	260	22½" x 14¼" x 14"	\$2,743.50
DSHP5	1/2	6,000	1.75	115	9.5	1½"	12/25	350	24"'x 15½" x 16"	\$3,493.50
DSHP6	1/2	6,000	1.75	230	4.8	1½"	12/25	350	24"'x 15½" x 16"	\$3,493.50
DSHP7	3/4	9,000	2.7	115	13.0	1½″	15/30	590	24" x 21" x 15"	\$3,823.50
DSHP8	3/4	9,000	2.7	230	7.0	1½"	15/30	590	24" x 21" x 15"	\$3,823.50
DSHP9	1	12,000	3.4	230	7.2	1½″	20/35	610	27" x 24" x 15"	\$4,558.50
DSHP10	11/2	21,000	6.1	230	10.5	11/2"	25/40	772	31" x 26" x 19"	\$7,093.50

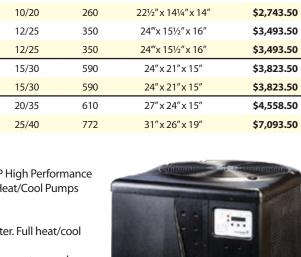
XLHP™ High Performance Heat/Cool Pumps

With today's record energy costs, there's never been a better time to invest in a XLHP High Performance Heat/Cool pump. Compared to gas, oil or electric heaters, XLHP High Performance Heat/Cool Pumps use just a fraction of the energy to generate the same amount of heat.

More standard features than any other

- Both the 120BTU and 140BTU model are capable of heating and/or cooling the water. Full heat/cool
- Provides an AutoSet Temperature Control feature as standard. It monitors water temperature and turns the pump on and off as needed, overriding the time clock to maintain desired temperature for convenient, hands-free control.
- Features the legendary Emerson® Copeland Scroll® Compressor that's more efficient, durable, reliable and quieter than any piston-driven compressor.
- EPA-recognized, environmentally safe, non-ozone depleting R-410A refrigerant.
- 100% titanium heat exchanger assures corrosion-free performance for extra long life and value.
- · LCD control board displays an intuitive, menu-driven readout with easy to follow, full word messages—no codes to memorize.
- Self-diagnostic software continuously monitors system for peak performance.
- Thermostatic Expansion Valve (TXV) controls refrigerant flow for optimum efficiency and BTU output over a wider operating temperature range.
- Automatic defrost feature senses refrigerant temperature and helps prevent the XLHP™ heat pump from freezing, allowing the unit to operate effectively at even lower temperatures than many competing products.
- ETL listing is your assurance of safer, dependable operation.
- BTU and efficiency independently certified by the Air Conditioning, Heating, and Refrigeration Institute (AHRI). The AHRI Certified mark is applied only to HVACR equipment and components that have been independently tested to certify that manufacturers' performance claims are accurate.
- Maximum working water pressure is 50 PSI.

			RIOHC	apacity			Breaker	Flow (gpm)		
			Heating	Cooling	Volts	Phase	Rating	Min/Max		
4	60900	XLHP 120	125,00	71,000	230	1	50 amps	30/120	\$7,387.50	
4	60901	XLHP 140	140,000	80,000	230	1	50 amps	30/120	\$7,860.00	
							·			



Additional ESA Charge

Please note that there will be an additional charge of \$350.00 per unit to certify the under Canadian ESA regulations. This also increases the lead time by about 1 week.

Heat Pumps

They heat and cool!

Titan Air Cooled Heat Pumps by Aqua Logic® are designed for a wide range of applications such as a public aquarium, aquaculture facility, government or university research institution or hydroponics operation. All units are suitable for outdoor installation (but should be protected from direct weather). Heat pumps up to 5hp have a special "Spine Fin" condenser coil which has proven to have superior heat transfer performance and capacity over traditional radially finned heat exchangers. This style condenser also has a much greater resistance to corrosion in harsh environments such as moist salty air or chemically tainted rainwater.

In the cooling mode, the heat pump works as a chiller, cooling water to the temperature you select. In the heating mode, the heat pump works with the liquid refrigerant (Freon) flow in reverse. Freon absorbs heat from the air as it moves thru the condenser. As it heats, the Freon becomes a gas, which is then compressed by the compressor. The heat carried by the Freon is then released into the titanium heat exchanger and transferred into the circulated water

These models feature titanium helix coils and powder-coated shrouds. 2" PVC slip, in and out fittings on 2–10 hp; 3" PVC slip on larger units. 230V models listed; 460V also available. Dual stage digital temperature controller is enclosed in a NEMA4X enclosure with easy 3 push button programming and will maintain water temperatures in the range from 45°-85°F (7 to 24°C); you must specify desired temperature operating range when ordering. Units will lose heating efficiently when air temperature is under 45°F (7°C). Note min/max flow requirements (water pump not included). The controller can display in either °F or °C and will maintain the water within 1 degree of the set point. Water pressure should not exceed 40 psi. One-year warranty.

- Heat or Chill with one unit
- •Titanium Heat Exchanger
- Fresh or Saltwater use
- Dual Stage Temperature Controller

	HP	BTUH	KW	Volts	Phase	Amps (Run/Start)	Flow (gpm) Min/Max	Air Outlet (CFM)	Dimensions $(l \times w \times h)$	
HP1	11/2	18,000	5.2	208-230	1	5.9/38.6	20/40	1,550	38" x 26" x 62"	\$8,100.00
HP2	2	24,000	7.0	208-230	1	8.7/57.8	20/40	1,550	38" x 26" x 62"	\$8,805.00
HP3	3	36,000	10.5	208-230	1	17.6/79	20/40	4,385	48" x 35" x 62"	\$10,905.00
HP33	3	36,000	10.5	208-230	3	7.8/75	20/40	4,385	48" x 35" x 62"	\$10,905.00
HP4	4	48,000	14.0	208-230	1	18.6/93.4	30/60	2,500	48" x 35" x 71"	\$12,374.00
HP43	4	48,000	14.0	208-230	3	11.7/100.1	30/60	2,500	50" x 35" x 71"	\$12,374.00
HP5	5	60,000	17.5	208-230	1	25/148	30/60	3,700	50" x 35" x 71"	\$14,160.00
HP53	5	60,000	17.5	208-230	3	17.3/123	30/60	3,700	58" x 35" x 71"	\$14,160.00
HP75	71/2	90,000	26.3	208-230	3	29/164	60/120	6,530	50" x 43" x 68"	\$20,189.00
HP7	10	120,000	35.0	208-230	3	36/225	60/120	9,800	61"x 48"x 74"	\$23,444.00
HP15	15	175,000	52.7	208-230	3	60/164	120/180	9,750	112" x 54" x 75"	\$43,588.00
HP20	20	240,000	74.3	208-230	3	83/267	120/180	9,750	112" x 54" x 89"	\$53,988.00



www.FishFarmSupply.ca



877-669-1096

•-Standard Stock Item

HEATERS

A

CHILLERS

Inline Heating & Cooling Units

Heat Exchanger & Small Chillers

Additional ESA Charge

Please note that there will be an additional charge of \$350.00 per unit to certify the under Canadian ESA regulations. This also increases the lead time by about 1 week.

Agua Logic® Heat Exchanger Packages

A complete, water to water heat exchanger package for hot and cold water loop systems. Fresh and saltwater safe, the compact design and quiet operation make these systems perfect for indoor applications.

Each package includes titanium heat exchanger, stainless

steel mounting stand, PVC plastic shell, digital temperature controller, three way water solenoid valve, flow meter, inline strainer and customized plumbing. This preassembled and ready to install system only requires a 115 V power source and a hot or cold water supply. The entire heat exchanger can be installed in less than an hour. CPVC shells also available. Ship directly from the manufacturer.

Note: These heat exchangers directly absorb or release heat from the tank system

water into a	nother wa	iter sou	urce (hot o	r cold).		
	BTus/Hr	kW	Process Water In/Out	Supply Water In/Out		0
HX-3DX	3,000	0.9	3/4 " FPT	½ "FPT	\$1,581.00	
HX-4DX	4,000	1.1	3/4"FPT	½″FPT	\$1,614.00	
HX-6DX	6,000	1.7	1½" FPT	½″FPT	\$1,647.00	
HX-9DX	9,000	2.6	1½" FPT	½ "FPT	\$1,914.00	п
HX-12DX	12,000	3.5	1½" FPT	½ "FPT	\$2,198.00	
HX-24DX	24,000	7.0	2" Slip	½″FPT	\$4,315.00	
HX-36DX	36,000	10.5	2" Slip	3/4 "FPT	\$4,794.00	
HX-48DX	48,000	14.0	2" Slip	3/4 "FPT	\$5,070.00	
HX-60DX	60,000	17.5	2" Slip	3/4 "FPT	\$5,550.00	
HX-90DX	90,000	26.3	2" Slip	3⁄4 "FPT	\$10,310.00	-
HX-120DX	120,000	35.1	2" Slip	1"FPT	\$12,413.00	(C)
HX-180DX	180,000	52.7	2" Slip	1½" FPT	\$15,867.00	
HX-240DX	240,000	70.2	2" Slip	1½" FPT	\$20,400.00	

Coolworks IceProbe®

- Reliable, fan is the only moving part.
- Safe, low voltage operation.
- Environmentally friendly, no chemicals or gases.

The Coolworks IceProbe® uses advanced thermoelectric technology to directly convert electricity into cooling power. Its unique and patented design is based upon Peltier's principle, making the IceProbe® a highly efficient miniature heat pump! The durable aluminum probe is coated with an FDA approved epoxy, making these units ideal small coolers for miniature aquariums, bait tanks, bioassay research, hydroponics and even potable water systems. The



units are capable of cooling 10 gallons of water 20°F below ambient temperature in an insulated tank (just a few degrees in a non-insulated tank with heavy lighting). Probes can be

mounted through the side of a tank, using the molded bulkhead kit included (11/4" hole required) or can be immersed (probe end only). Temperature controller is not included; we recommend TC11. Weighing only 2 pounds, each IceProbe® includes a separate 12 V DC power supply and draws only 50 watts. Ship weight 5 lbs. One year warranty.

\$211.05

Additional ESA Charge

Please note that there will be an additional charge of \$350.00 per unit to certify the under Canadian ESA regulations. This also increases the lead time by about 1 week.

Drop-In Titanium Coil Chillers, Cyclone[®], by Agua Logic[®]

Installs in any tank in 20 minutes! Place this chiller near the tank, drop the titanium coil in the water and turn it on. It's that easy! Water circulation past the coil is required. If there is no circulation, place an air diffuser under or attach to the coil. The high efficiency of this chiller is due to its unique

The ½ hp units come with 6'flexible stainless steel lines. Units under ½ hp have 5'flexible lines feeding the 2½" diameter chilling coil. All chillers come with ABS plastic cover and a remote digital electronic controller which displays temperature, set point in either °F (+/- 1°) or °C, mounted in a

The chiller will be factory set to operate most efficiently at your specified cooling temperature. You must specify at time of order. All units have been pretested and have 60 Hz motors with 4' power cords. Two year warranty. Use the Chiller Installation and Sizing chart to determine the horsepower required for your application.

Basic: Chillers operate within a temperature range of 65 to 80°F (18 to 27°C).

Option A: Allows an operating range between 50 to 65°F (10 to 18°C).

	HP	Volts	Running Amps	BTU's/hr	Dimensions	Basic	Option A
AE3D	1/4	115	5.4	3,080	15"x 12"x 11"	\$1,500.00	\$1,890.00
AE4D	1/3	115	7.2	4,050	19"x 14"x 11"	\$1,590.00	\$1,995.00
AE5D	1/2	115	9.5	6,000	19" x 16" x 13"	\$2,415.00	\$2,880.00
AE5D2	1/2	230	4.8	6,000	19" x 16" x 13"	\$2,415.00	\$2,880.00



EATERS

A

Drop-In & Inline Chiller

Industrial Water Cooled Chillers

Becoming increasingly popular in the aquaculture industry, these inline industrial water chillers feature water cooled condensing units, making them ideal for installations with an existing freshwater supply. They use water to cool the condenser instead of air provided by a fan. Sources of the cooling water could include a facility's chilled water loop, municipal water, cooling tower and well or spring water. The chillers' low heat emission and compact size make them perfect for placement in tight spaces with minimal ventilation. Units are fresh and

Chillers operate within a range between 40-80°F (4.5-27°C). Larger sizes up to 20 hp available. One yea

	HP	Volts	Running Amps	BTU's/hr	Dimensions	
4WC	1/4	115	5.4	3,080	19"x 12"x 11"	\$2,400.00
4WC	1/3	115	7.5	4,050	23"x 13"x 11"	\$2,775.00
5WC	1/2	115	9.5	6,000	24" x 16" x 13"	\$3,600.00
6WC	1/2	230	4.3	6,000	24"x 16"x 13"	\$3,600.00
7WC	3/4	115	11.3	9,500	25" x 21" x 15"	\$3,750.00
8WC	3/4	230	5.7	9,500	25"x 21"x 15"	\$3,750.00
9WC	1	230	7.0	12,000	27" x 24" x 15"	\$4,290.00
10WC	1 ½	230	9.5	18,000	31" x 26" x 19"	\$6,180.00

saltwater compatible and use a helix titanium coil. Temperature controller is digital.



Tank® Chillers

The new TANK® chiller line is the next generation of aquarium chillers—used by consumers and professionals for over a decade. The TANK chillers are the result of one of an ambitious and comprehensive redesign of the SeaChill aguarium chiller to-date. New changes include an increase in cooling efficiency and improved usability, functionality and durability.

Efficient Cooling Technology

Internationally-recognized high-end compressors and titanium coaxial heat exchangers provide high performance, low energy consumption and low noise levels.

The TANK® TK500 to TK2000 comes standard with a heater built into the unit (TK3000 & TK6000 can purchased and installed separately, TK150 does not have a heating option). The built-in heater provides better control over water temperatures and can be operated through the digital thermostat. Digital Thermostat

Intuitive controller with accurate temperature detection from 32 to 95°F. Closed loop temperature control system with extremely tight differential of 1°F. Displays in °F or °C, and audible alarms for certain situations.

EFFICIENT DESIGN

Solid and durable structure designed to guarantee near perfect protection against corrosion. Rotatable in-set water connections, rotatable exhaust conveyor, and smaller form-factor helps facilitate placement of chiller in confined spaces.

	•	Min Flow Rate	Max Pressure	Inlet/ Outlet	Refrigerant	Dimensions	U
TK150	1/8 HP	105 gph	7.25 psi	1/2"	R134a	14¼"x 8½"x 12¾"h	\$864.50
TK500	% HP	105 gph	8.7 psi	3/4"	R134a	12¼"x 12¼"x 16¾"h	\$1,081.00
TK1000	1/4 HP	132 gph	14.5 psi	3/4"	R134a	12¼"x 12¼"x 18"h	\$1,307.00
TK2000	1⁄3 HP	158 gph	14.5 psi	3/4"	R134a	12¼"x 12¼"x 19¾"h	\$1,518.00
TK3000	1/2 HP	800 gph	14.5 psi	1″	R410A	15½"x 23%"x 22¼"h	\$3,141.00
TK6000	1 HP	800 gph	14.5 psi	1"	R410A	15½"x 23%"x 22¼"h	\$3,791.00



877-669-1096

Chiller Installation and Sizing

877-669-1096

- Insulate water lines to and from chillers.
- Insulate as much of the water tank as possible.
- Keep the chiller well ventilated. The higher the temperature around the chiller, the longer it has to work.
- Submersible water pumps add heat to the water. If a submersible pump must be used, choose the next size larger chiller.
- Water must be run through the chiller at all times while unit is on.
- For tanks less than 3,000 gallons, allow 24 hours for initial chilling. For tanks larger than 3,000 gallons, allow 48 hours or more.
- Reduce bio-fouling by filtering water prior to chiller. Check the filter often. If it clogs and reduces water flow below the minimum required, freeze
- Consult our technical department for flow through and other applications. Ambient air temperature for sizing should be measured directly above the
- An oversized chiller will not cost more to operate, as it only turns on when needed and runs for a shorter time.

	TEMPERATURE DI	FFERENGE FRUM AM	SIERT (T)	
hp	10	20	30	40
1/6	90	45	30	23
1/5	144	72	50	40
1/4	260	130	90	70
1/3	360	181	130	100
1/2	550	280	200	154
3/4	826	420	300	231
1	1,321	672	500	370
11/2	2,115	1,075	800	555
2	2,640	1,320	850	670
3	3,960	1,980	1,275	1,005
4	5,280	2,640	1,700	1,340
5	6,600	3,300	2,125	1,675
8	10,560	5,280	3,400	2,680
10	13,200	6,600	4,250	3,350

Chiller Sizing Chart (in Gallons of Water Cooled) for Uninsulated Tanks

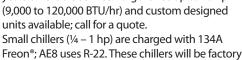
♦-Standard Stock Item

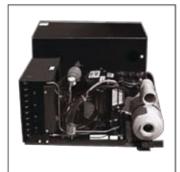
Additional ESA Charge

Please note that there will be an additional charge of \$350.00 per unit to certify the under Canadian ESA regulations. This also increases the lead time by about 1 week.

Delta Star® Research Chillers by Aqua Logic®

These high quality, inline water chillers are built with oversized, titanium evaporator coils for maximum efficiency. Titanium evaporators have become the aquaculture industry standard because they are fish safe and saltwater compatible. Their low profile allows for easy placement in tight places. The quiet, internal, spring mounted hermetic motor/ compressor, manufactured by Tecumseh, provides years of reliable service. Larger sizes up to 10 hp (9,000 to 120,000 BTU/hr) and custom designed units available; call for a quote.







set to operate most efficiently at your desired cooling temperature. Specify the temperature at time of order. All chillers come standard with a digital electronic controller mounted on a 4' cable, remote from the chiller unit. It displays temperature, set point, minimum and maximum in either of (±10)

A titanium sensor probe with a 6' cable is included with the controller. Prices below include temperature controller, ABS cover and crating charge. Units listed are all 60 Hz with 4' power cords. Maximum water pressure for all chillers is 20 psi. Two year limited warranty. Standard units: Allows adjustable temperature range of 65 to 80°F (18 to 27°C). Option A units (add A to the end of the part number): Allows

adjustable temperature range of 50 to 65°F (10 to 18°C). Option B units (add B to the end of the part number): Allows adjustable temperature range of 40 to 80°F (4.5 to 27°C).

	HP	Volts	Running Amps	BTU's/hr	Min/Max Flow	Inlet/ Outlet	Dimensions	Standard	Option A	Option B
AE3	1/4	115	5.4	3,080	8/15 gpm	3/4"	19"x 12"x 11"	\$1,380.00	\$1,620.00	\$1,830.00
AE4	1/3	115	7.2	4,050	10/20 gpm	3/4"	23"x 14"x 11"	\$1,470.00	\$1,725.00	\$1,920.00
AE5	1/2	115	9.5	6,000	12/25 gpm	11/2"	24"x 16"x 13"	\$2,235.00	\$2,535.00	\$2,730.00
AE52	1/2	230	4.8	6,000	12/25 gpm	11/2"	24"x 16"x 13"	\$2,235.00	\$2,535.00	\$2,730.00
AE6	3/4	115	13.0	9,500	15/30 gpm	11/2"	25"x 21"x 15"			\$3,255.00
AE62	3/4	230	7.0	9,500	15/30 gpm	11/2"	26"x 21"x 15"			\$3,255.00
AE7	1	230	7.2	12,000	20/35 gpm	1½"	27" x 24" x 15"			\$3,795.00
AE8	1 ½	230	10.5	18,000	25/40 gpm	11/2"	31"x 26"x 19"			\$5,805.00

Delta Star® Heat Pumps by Aqua Logic®

Delta Star® heat pumps automatically handle both heating and cooling duties in fresh and saltwater applications. Titanium heat exchangers in Delta Star® heat pumps mean you get the best in corrosion resistance. A properly sized and installed heat pump will provide stable, controlled water temperature. Pumps include a dual stage digital temperature controller in a NEMA 4X rated waterproof enclosure and will maintain water temperatures from 40 to 85°F (5 to 29°C). Controller will keep the temperature within 1 degree of the set point in °F or °C. In heating mode these heat pumps work with the liquid refrigerant (Freon®) in reverse. Pumps should be mounted indoors where air temperatures stay above 55°F.

Note: When in heating mode, place the unit in a drip pan that has a drain connection (condensation can form a puddle around the unit).

If an Aqua Logic® chiller or heat pump's condensing unit is going to be located outdoors and operating in cooling mode when ambient air temperatures fall below

50°F, a low ambient control must be ordered with the unit (call for pricing). This will allow the chiller to function properly down to 0°F. Additional precautions should be taken to prevent the exposed water lines and heat exchanger from freezing if water flow should stop while the air temperature is below freezing.

DSHP-4	⅓ hp	115 Volts	7.2 amps	4,000 BTUs/Hr	10 to 20 gpm	3/4" Inlet/Outlet	\$2,745.00
DSHP-5	½ hp	115 Volts	9.5 amps	6,000 BTUs/Hr	12 to 25 gpm	1 1/2" Inlet/Outlet	\$3,495.00
DSHP-6	½ hp	230 Volts	4.8 amps	6,000 BTUs/Hr	12 to 25 gpm	1 1/2" Inlet/Outlet	\$3,495.00
DSHP-7	¾ hp	115 Volts	13 amps	9,500 BTUs/Hr	15 to 30 gpm	1 1/2" Inlet/Outlet	\$3,825.00
DSHP-8	¾ hp	230 Volts	7 amps	9,500 BTUs/Hr	15 to 30 gpm	1 1/2" Inlet/Outlet	\$3,825.00
DSHP-9	1 hp	230 Volts	7.2 amps	12,000 BTUs/Hr	20 to 35 gpm	1 1/2" Inlet/Outlet	\$4,560.00
DSHP-10	1 ½ hp	230 Volts	10.5 amps	21,000 BTUs/Hr	25 to 40 gpm	1 1/2" Inlet/Outlet	\$7,095.00



Please note that there will be an additional charge of \$350.00 per unit to certify the under Canadian ESA regulations. This also increases the lead time by about 1 week.

Air-Cooled Water Chillers

Aqua Logic® Multi Temp Air-Cooled Water Chillers are used in aquaculture, public aquariums, live seafood holding and hydroponics systems. These large chillers have an insulated heat exchanger with titanium helix coils and commercial duty condensing units mounted on a stainless steel frame with bolt down leg tabs. Suitable for outdoor installations, but should be protected from direct weather. Digital temperature controller is in a splashproof NEMA box with easy push-button programming. Controller displays in either °F or °C. Chillers operate between 40–80°F (4.5–27°C). Chillers 2-10 HP have a 2" slip inlet/outlet (15 HP and larger models have 3" inlet/outlet) and installed water flow switch to shut them down should flow to the heat exchanger stop. Water pressure should not exceed 40 psi. One-year warranty.

- Fresh or Saltwater Use
- Insulated, Titanium Heat Exchanger
- Digital Temperature Controller
- Automatic Temperature Ranging
- Water Flow Safety Switch

· water ric	w Jaiety.	JVVICCII								
	HP	BTUH	KW	Volts	Phase	Amps (Run/Start)	Flow (gpm) Min/Max	Air Outlet (CFM)	Dimensions $(l \times w \times h)$	
MT-1	2	24,000	7.0	208-230	1	9/58	20/40	1,550	44" x 33" x 62"	\$7,965.00
МТ-3	3	36,000	10.5	208-230	1	14/72	20/40	2,175	44" x 33" x 66"	\$9,480.00
MT-4	3	36,000	10.5	208-230	3	12/77	20/40	2,175	44" x 33" x 66"	\$9,480.00
MT-5	4	48,000	14.0	208-230	1	21/109	30/60	2,500	51" x 38" x 62"	\$11,220.00
MT-6	4	48,000	14.0	208-230	3	15/91	30/60	2,500	51" x 38" x 62"	\$11,220.00
MT-7	5	60,000	17.5	208-230	1	27/158	30/60	3,700	56" x 38" x 70"	\$12,585.00
MT-8	5	60,000	17.5	208-230	3	19/137	30/60	3,700	56" x 38" x 70"	\$12,585.00
MT-9	71/2	90,000	26	208-230	3	28/164	60/120	6,530	48" x 42" x 68"	\$18,150.00
MT10	10	120,000	35	208-230	3	35/225	60/120	9,800	58" x 46" x 68"	\$21,075.00
MT15	15	180,000	52.7	208-230	3	55/164	120/180	9,750	112" x 56" x 75"	\$38,055.00
MT-20	20	254,000	74.3	208-230	3	83/267	120/180	9,750	112"x 56"x 89"	\$47,130.00





Important

We have tried to make this catalogue as comprehensive and factual as possible. However, we reserve the right to make changes to prices without notice. Manufacturer's specifications may change without notice.

•-Standard Stock Item

HEATERS

A

CHILLERS

Air Cooled Chiller

Pond Lighting

LED Submersible Pond & Fountain Light These stainless steel submersible lights provide energy efficient night time lighting with an endless array of color choices. Choose from the single colored lamps or the multi-colour changing model to provide an exciting dramatic effect by automatically rotating through the colours. Each 6 watt LED lamp includes a 15' power cord.

LED4411	White	\$132.75
LED4412	Blue	\$132.75
LED4413	Green	\$132.75
LED4414	Red	\$132.75
LED4415	Yellow	\$132.75
LED4416	Multi-Colour	\$146.25



Underwater Lights

The perfect pond light set! Quality 3 LED light set combo, each light has 12 white super bright LED's, light kit output 12 V AC, 4.8 watts. Lights are good for using underwater or above water. The cord length is 16' between transformer and first light, 3.3' between each light. This LED light kit comes with an outdoor 12 V AC UL transformer and a photocell light sensor which will turn light on when dark and off in day time automatically, adjustable light angle, light size 21/4" dia. x 3"h. 4 sets of colour lenses for each light (red, blue, green, yellow) are included. Light panels in these units can be replaced (all 12 LED at once).

OCEANPOND♦ Complete Light Set \$82.75 \$7.20 **OCEANPONDR**♦ Replacement Light panel



LED Ornament Accent Light

With the PowerGlo LED Ornament Accent Light consumers can add the finishing touch to their ornamental fountains. Installation is quick and simple. Includes low voltage transformer 12V. Low operating costs and long bulb life. Pre-wired for easy installation.

PT1560♦ \$58.00

Submersible LED Light Ring

Super bright submersible LED light ring with 24 bulbs. These light rings come with an outdoor transformer and 33' submersible cord. These light rings come in white or colour changing lights. These are a great addition to many submersible fountain pumps to add a lighted feature.

OCEANLEDC♦ Colour Changing Light Ring \$45.95 OCEANLEDW+ White Light Ring \$45.95

Underwater Spot Light

Multi-functional super bright LED underwater light with 72 LED's. This energy saving light with safe low voltage input 12 V AC with outdoor/indoor UL transformer included. Comes with light colour controller, light colour can be selected in single colour or multi-colour combination or auto fading changing mode. Cast copper light housing, size 3"(diameter) x 1 %", submersible cord length 33'. It gives a great effect as a pond light. It can also be used as fountain light or garden statue light above water.

\$102.60

OCEANSPOT

OCEANROCK+

LED Rock Light

These 36 bulb LED lights are beautifully built into a rock like mould. These are great lights to use to light walkways and patios. They will blend into their surrounding during the daytime. But at night will help to insure that walkways are safely illuminated. Includes a 115 V to 12 V outdoor UL transformer at the plug end of a 33'long 12 V cord.

\$76.00



Underwater Light Bar

This submersible LED light has total 224 LEDs (56 each of white, red, blue and green LEDs OR all 224 LEDs in white) comes with pattern controller which you can get different mixed colour and automatically changing. Great for fountain, waterfalls, garden or wall decoration. The unit includes a hinged mounting bracket that will swing up to 270° to allow the light to be properly angled for any application. The beam produced is 30° wide to allow a focused light. It works in or out of water. Unit is 24" I x 2" w x 4"h. Includes a 115 V to 12 V outdoor UL transformer at the plug end of a 33' long 12 V cord.

\$173.50 OCEANLINE+ Colour Changing \$197.50 **OCEANLINEW**♦ White Only

LED Stream Fountains

Add elegance and fun to your backyard pond or fountain with a stream of color changing 9 watt LED lights inside an arc of moving water. Also, this compact unit contains sponge filters to maintain clean, clear water streams. Spray is 6' to

10' horizontal distance and up to 5' high. Kits includes a pump with 20' cord, sponge prefilter, hose, and fittings, valve. The remote control that will allow you to choose a colour or set the stream rotate through colours automatically.

R441026	Kit with Remote Control	\$1,075.00
R441007	Kit, Automatic Colour Changing	\$946.00



Koi Spheres

Kit comes complete with sphere, 12" tall polycarbonate base stand, feeder device, airvac pole, and instructional manual - everything necessary to easily install your Koi Sphere in your pond in minutes! Install it with underwater lights and prepare for some beautiful night viewing of your fish. It brings your fish above the water line while magnifying them three times their size and adding a new dimension of excitement to any water garden or pond. Sphere is filled with water and sits on the pedestal. This product has a feeding tube which allows you to automatically feed inside the globe with ease. Watch your fish feed, in a magnified view! Magnification can also allows for early detection of potential medical problems.

KS8	8" Koi Sphere Kit	\$206.70
KS10	10" Koi Sphere Kit	\$219.70
KS12	12" Koi Sphere Kit	\$232.70
KS14	14" Koi Sphere Kit	\$245.70
KS16	16" Koi Sphere Kit	\$258.70
KS18	18" Koi Sphere Kit	\$284.70
KS20	20" Koi Sphere Kit	\$310.70

1/2" Thick Support Grating

This food grade polypropylene is molded to support filters, false tank bottoms or media. It can be used as bench tops in greenhouses. It is very easy to clean and disinfect. Each plate measures 36" I x 18"w $x \frac{1}{2}$ "h and is composed of 1" x 1" grid squares. They are durable, lightweight and very

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resistant to sagging. Interlocking assembly is convenient for connecting grates together. Grates are UV resistant.

SPG1

LED Solar Lighting

LED EggLites offer a compact lighting option that operates wet or dry. They come in four colour



ECORATIVE

(39)

LIGHTING

Pond Aggessories

options (white, red, blue and green) and can be powered by using a solar panel. Up to 12 lights will fit on the plugin transformer or 6 on each mini solar panel. Kits include 2 white EggLites, 10 of cord, transformer and either a mini solar panel (41/4" x

6¾") or power plug. Three year warranty on lights and one year warranty on solar panel.

LSE2W♦	Solar Kit	\$114.00
LCE2W♦	Plug In Kit	\$89.00
LXE2	Add on Lights (set of 2)	\$55.00
LC10E	10`Extension	\$18.00

Synthetic Aquatic Plants

These faux plants allow you to have a plant in your pond that will flower all summer without having the problems of plant care. These plants will not have any bug problems and will

still provid HY07 ♦	le shade for fish. Yellow Water Lily	\$7.00
HY09	Red Water Lily	\$7.00
HY10	Orange Water Lily	\$7.00
UV11₄	Purple Water Lily	\$7.00



Plant Basket

These plant baskets can be used as vegetable filters, hydroponic containers, pump strainers and, of course, plant baskets. RB38 is a solid basket with no holes.

C4617	Contour, 18" x 7" x 6" deep	\$5.75
S4040	Square, 16" x 16" x 10" deep	\$14.00
S2929 ♦	Square, 12" x 12" x 7" deep	\$5.75
S2424 	Square, 10" x 10" x 5" deep	\$4.50
S2020 ♦	Square, 8" x 8" x 3" deep	\$3.45
RB14	Round, 5" dia. x 4" deep	\$2.30
RB23♦	Round, 9" dia. x 5" deep	\$4.00
RB38♦	Round, 15" dia. x 91/2" deep, SOLID	\$17.00
H18	Hexagonal, 7" x 6" deep	\$3.45



\$27.15

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The Pond Leaf Eater removes leaves and other debris from ponds with power provided by a garden hose! Swivel wheels for easy turning. Filter bags slip on and off quickly. Standard bag (included) is for leaves and detritus, sand/silt bag is a finer mesh bag for smaller particulates. Fits the Snap-Adapt poles (pole not included).



Mini Vac Pond Vacuum

Small jobs do not need a pump, just a garden hose. Designed for use with a garden hose, this mini vacuum is a great gadget for cleaning koi ponds and small tanks. The vacuum comes with a silt bag and leaf trap, hose adapter, shutoff valve and Snap-Adapt handle. Includes a brush attachment for soft surfaces like liners and a wheel attachment for rougher surfaces, like rocks. Fits Snap-Adapt poles (pole not included).

VAC4	Pond Vac	\$38.40
VAC4RB	Repl. Bag	\$19.35
VAC4RS	Repl. Silt Sock	\$10.25

Pond Vacuum - Oase 4

Many pond maintenance needs can be addressed by removing sludge and debris build-up around the pond. With the PondoVac 4 pond cleaner this can be done in minutes, instead draining and refilling the pond over hours or days. The amount of water wasted in the drain and fill methodology of pond maintenance is unfortunately extremely high, but with the PondoVac 4 there can be no waste water at all.

The PondoVac 4 boasts a dual chamber suction system which provides the user with continuous suction. This

breakthrough from our engineers has truly made the PondoVac 4 the best choice for the pond owner that wants the job done right with an amazing amount of time saved. The PondoVac 4 utilizes a 1800 watt motors that have a maximum suction depth of 7 feet. Cleaning a deep pond has never been easier. The PondoVac 4 comes standard with a multitude of nozzle attachments. Nozzles range from cleaning through gravel to flat surfaces and even removing string algae. There are no problems that the PondoVac 4 can't handle.

VACO4 \$470.00

Vacuum Kit for Ponds

Laguna Pond Vacuum provides a fast and convenient way to clean ponds. The unit attaches to a garden hose and a control valve allows you to adjust the water flowing through the vacuum. The kit includes a Power Vac attachment which collects dirt and debris at the bottom of the pond and a Hydro Brush attachment for scrubbing and cleaning. The kit comes complete with a filter bag and an extension

PT831♦ Vacuum Kit PT833**♦** Replacement Bag \$4.50

> **For Water Treatment Products to Help Reduce Cleaning** Please see Page 39

Pond Vacuum - Oase 5

Pond cleaning can be a big job. This pond vacuum will allow you to work without having to waiting for the chamber to empty. The vacuum has an integrated pump to allow emptying of the vacuum in a variety of setups even when the drain is running up hill. And the included debris bag can be used to collect debris and feed the water back into the pond so that the water is not lost.

PT831

A transparent suction hose section allows you to see when an area is clear. And a hand regulator allows the user to adjust the suction power to maximize customization. Maximum suction depth of 8' thanks to high performance 1700W motor. Suction up to 2,000 gph depending on the setup. Easy to move with transport rollers and adjustable handle and more ground

Vacuum comes with these accessories: four robust aluminium suction tubes, one clear suction tube, special string algae nozzle, broadened universal nozzle, wet suction brush, brush nozzle, debris collection bag, 16'long suction hose and 8' long discharge hose, c-connection on both sides for hose connections.

VACO5



Snap-Adapt Poles

Designed for use with pond and tank vacuums, scrub brushes and other attachments with plastic locking bi-pins. PVC poles are three piece, 11/4" O.D. in size, so you can make a 2', 4', 6', 8' or 10' pole.

BH10	PVC Adjustable Pole, 2' to 10'	\$30.75
BH75	Telescoping Aluminum Pole, 4' to 8'	\$26.70





Brush with Nylon Bristles

These curved, heavy-duty brushes are ideal for cleaning tanks, ponds and raceways. Made of ABS plastic, they feature UV-resistant bristles and have Snap-Adapt handles to fit Snap-Adapt poles.

BRSH18	Brush (pole not incl)	\$17.40
BH75	Snap -Adapt Telescopic pole, up to 71/2'	\$26.70



Flexicut 2-in-1

FlexiCut 2-in-1 Pond Scissors feature a dual approach to vegetation maintenance—they stabilize and hold vegetation while cutting them, providing stability and torque. The FlexiCut 2-in-1 Pond Scissors are an excellent tool for trimming back overgrown vegetation and small branches as well. The scissors' head features adjustable work angles and protects the pond liner from cuts and punctures. Handle length is 5.2 ft.

OAS46970 \$55.00



This commercial duty, chrome plated, brass vacuum head is sure to shorten your cleaning time for raceways, fish tanks and ponds. Overall unit width is 12" with a suction width of 10½". It features a balanced design and a unique four wheel suspension system, utilizing Delrin® wheels on height adjusting eccentrics. The non-marking wheels and the internal brush adjust to control the height and the amount of suction. Use any suction tubing (pool hose works best) with a 11/2" I.D. and bolt it to a handle measuring 11/2" O.D.

AV17	Vacuum Head	\$361.60
AV17R	Replacement Wheels (set of 4)	\$28.94



Algae Scrapper

Designed for removing tough algae from aquarium tanks, these algae scrappers will not scratch glass or acrylic. Include three types of easily changed replacement blades for all your cleaning needs: fabric covered, plastic and stainless steel.

PR21	Hand Scrapper	\$15.75
PR241	Proscrapper, 24" long	\$23.70
PR35E	Proscrapper, 24" - 36" long	\$39.45
PE24R3	Repl. Plastic blades, 3 pack	\$7.80
PSRS3	Repl. Stainless Steel blades, 3 pack	\$6.10

FX Gravel Vacuum Kit

The FX Gravel Vac quickly connects to all Fluval FX canister filters for the ultimate convenience in powered substrate cleaning. It will effectively traps dirt and debris in the integrated filter housing with Fine and Super Fine vacuum bags (Item # A372 and A373 - sold separately). The thumb-operated flow control allows you to easily adapt to your cleaning needs. The integrated gravel guard prevents clogging while the grooved design efficiently collects debris. Tube extension included for larger tanks and hard to reach areas.

A370	Gravel Cleaning Kit	\$70.00
A372	Vacuum Bag, Fine	\$15.00
A373	Vacuum Bag, Super Fine	\$17.00





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CLEANING

Cleaning Tools

Utility Brushes

These are excellent acid proof brushes for all types of scrubbing, including fish tanks, wheels, floors, boats, sumps, etc. The fill (bristles) are 2" long for deep cleaning and the handles are solid plastic.



Shoulder Length Gloves

These shoulder length gloves will cover your whole arm and have a strap that runs behind your shoulder to prevent them from falling down. The thick gloves are textured for grip and durable. One

\$45.00

GSL*

Agua Gloves

Designed to keep arms and hands completely dry when working in ponds, tanks and aquariums. Full arm length (28" total) with elastic bands to hold them snugly on the upper arm. Flexible PVC with fiber reinforced sleeves. Hands are a textured, thicker material for increased grip and longevity.



Shoulder Length Gloves

26" shoulder length sleeve with flexible & lightweight Nitrile coating.

GSLYM ♦	Medium	\$27.50
GSLY+	Large	\$27.50
GSLYXL♦	Extra Large	\$27.50



This waterproof apron has a large belly flap for long life with less weight. Made of 20 mil PVC in turquoise. One size fits all. Easily trimmed.

GA35 \$16.65

Assorted Brushes

These brushes can be used for any cleaning application, including glassware. The snake brush is great for cleaning pipes and the smaller brushes are useful for hard to reach places.

OAL
14"
8" \$11.55
8"
120" \$16.50
14" \$5.70
6" \$6.00
22" \$7.50



Test Tube Brush

Radial, tufted tip and tapered design for cleaning test tubes and bottles.

В9	3″I x 1⁄16″ dia	\$4.20
B10	3½" l x ¾" dia	\$4.20



Tubing Brush

Galvanized wire handle with white bristles for cleaning burets, pipettes and long tubing. Brush is 5¼" I x 1½" dia. Overall length is 36". **B36**

Pipette Brush

Tapering bristles from ¼" to ¾" x 7½" L. Overall length is 17".

B17

Virkon® Aquatic Disinfectant

Virkon® Aquatic is a highly effective disinfectant specifically formulated for use in aquaculture facilities. Generally used for cleaning equipment, instruments and in foot baths. Ideal for controlling a wide variety of viral, bacterial and fungal pathogens. A 1% solution of Virkon® Aquatic is an effective disinfectant

Mix at a rate of 10 gram per liter of water. 1 liter of solution disinfects approximately 4 m². A 10 KG container makes 1,000 liter of solution. Solution Remains stable for seven days. Health Canada approved (DIN# 02276356).

VKS10 10 KG \$540.00

Formaline

Formaline (37% formaldehyde, 12-15% methanol) controls protozoa, parasites and monogenetic trematodes on surfaces and equipment. This product is not registered for use on food fish.

FORM20L♦ 20 Liter Carboy \$67.50 FORM204L 200 Liter Drum \$391.00

Aqualife Multipurpose Cleaner

A high-quality cleaner designed for use in fish hatcheries, aquaculture facilities and fish and food processing plants. Quickly loosens organic soiling, allowing easy removal of biofilm, grease, oils, waste

Biodegradable, nonhazardous, phosphate-free and contains no volatile organic compounds (VOCs). NSF-certified for use in food processing facilities.

AQU128 1 gallon \$39.45

\$68.00

BioSentry 904 - Features and benefits

BioSentry® 904 is a complete, chemically balanced disinfectant that provides clear use solutions even in cold water. Kills a broad range of gram-negative and gram-positive bacteria, fungi and viruses

- Fast acting bactericide, fungicide and virucide
- Non-staining / non-corrosive use solution
- Safe to use on all wettable surfaces
- Tested against Avian influenza and PED
- Effective against parvovirus BioSentry® 904 is a versatile product that can be used in all livestock facilities and hatcheries. BioSentry® 904 is a product that can address
- Terminal disinfection (4 mL/L)

almost all your challenges.

- Disinfecting hatcheries (4 mL/L)
- Disinfecting vehicles (4 mL/L)
- Foot bath (8 mL/L)

BIOSEN 3.8 liter bottle

Sanitizing Floor Mat

Our Sanitizing Foot Mat keeps hygienic areas free of contamination and germs. Great for food processing plants, this mat has thousands of pliable rubber scrapers that dislodge contaminants from footwear as the shoe soles are immersed in the disinfectant solution. Sanitizing Foot Mat will hold one gallon of disinfectant solution.



Virkon® Disinfectant Virkon® is a highly effective

broad spectrum disinfectant. Generally used for cleaning equipment, instruments and in foot baths. Mix at a rate of 1.3 oz. per gallon of water. One gallon of solution treats 135 ft²., 5 kg make 123 gallons of solution. Solution remains stable for seven days. Not registered for use with food fish.



Virkon'Aquatic

CLEANING

Gleaning Solutions & Equipment

VIRKON50G	50 gram pouch	\$7.50
VIRKON5♦	5 Kg	\$255.00
VIRKON20	20 Kg	\$869.00

Wescodyne

The introduction of Wescodyne is another step forward into the muchneeded field of asepsis and environmental sanitation. Wescodyne has been thoroughly evaluated, and provides for a superior "tamed-iodine" complex. It exhibits exceptional germicidal properties. Wescodyne contains a mixture of non-ionic wetting agents complexed with elemental iodine, which provides assurance of bactericidal efficiency. Wescodyne is an excellent no rinse sanitizer when used at 12.5 to 25 ppm. Water hardness does not adversely affect Wescodyne. It also works well at low temperatures.

4 Liter WESCO \$44.50

Chloramine-T

Typically used as an antiseptic and odor control agent. It can also eradicate parasites and bacteria when cleaning tanks and equipment. Chloramine-T is stable in aqueous solutions for many months when kept in the dark. It can inhibit nitrification and should not be used in systems with a biofilter unless the biofilter is taken offline first. Remove with activated carbon before putting the biofilter back online. Not approved for use on food fish.

CHLO25♦	2.5 Kg	\$77.65
CHLO10♦	10 Kg	\$252.45
CHLO25K♦	25 Kg	\$641.70



Hydrogen Peroxide 35%

Hydrogen peroxide is a powerful oxidizer that can be used in cleaning. The 65 Kg drum requires a \$20.00 deposit.

HYDRO23KG♦ 23 Kg jug \$65.60 **HYDRO**♦ 65 Kg drum \$105.85



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+-Standard Stock Item

Vital Sine™ Monocular Scope

This microscope uses an internal LED light that is bright and battery powered (rechargeable NiMH batteries included), eliminating the hassles of a power cord! It features a triple objective turret with achromatic objectives with glass lenses, giving an excellent, clear image at a low price.

It has a 10X wide field eyepiece and 4X, 10X and 40X objectives. Both coarse and fine adjustment controls make focusing easy. Abbe condenser is 0.65 NA with iris diaphragm and blue filter. Microscope includes a transformer and cord for recharging. Five year warranty on materials and workmanship; one year warranty on electrical components.

\$305.40

Stereo Dissecting Microscope

Dual magnification (1X and 3X) stereo microscope with 10X wide field eye pieces suitable for low magnification diagnostic needs. Features 360° rotatable head, large field of view and long working distance. Rack and pinion large adjustment knob with slip clutch protection, adjustable diopter correction on one eyepiece, interpupillary distance adjustment, locked on eye pieces and dual illumination lighting for both transmitted and incident light. Very useful scope at a very reasonable price. Includes dust cover. 115 V, 9"L x 7" W x $13\frac{1}{2}$ "H. Five year warranty.

M18SL Stereo Microscope

VanGuard® Deluxe Laboratory Microscope

Excellent quality at a very affordable price! This binocular microscope features an interpupillary distance adjustment through 10X wide field eye pieces; 4X, 10X, 40X and 100X (oil immersed) fully coated achromatic optics; low position, coaxial drive stage sideways; and coarse and fine adjustment knobs. 20 W variable quartz halogen illuminator with 1.25 NA (numerical aperture) Abbe type condenser, tension adjustment ring and an auto stop pre-focusing system. 20X optional eyepiece available

9"L x 7½ "W x 15" H. Five year warranty.

M14 Lab Microscope \$1,549.50

Video Eyepiece

Ideal for teaching, this simple-to-use eyepiece is a portable video system that can be used on a microscope. It will fit any standard 23 mm or 30.5 mm eye tube and plugs into a TV for viewing. The kit includes a composite video output with NTSC system, 620 x 580 picture, auto gain control and 1/3" CCD sensor.

\$622,20



Deluxe Dissecting Kit

An excellent choice for teachers and students alike! Kit includes the following:

- Dissecting teasing needle, angular with metal chuck.
- Dissecting teasing needle, straight with metal chuck.
- Dissecting iris scissors, 4½".
- Dissecting forceps, medium point, 41/2" with guide pin.
- Cartilage knife with 2" blade.
- 1 x 2 tissue forceps.
- Dissecting scissors, one point sharp and other point blunt, 51/2".
- Dissecting scalpel handle, #3.
- Dissecting mall probe, chrome.

\$33.00

- No. 10 blade.
- · Vinyl, zippered case with linen.

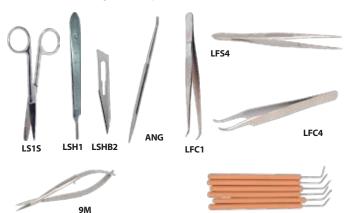
10**G**S



Dissecting Equipment

All of these instruments are high quality steel or stainless steel.

LS1S	Scissors, Straight end, One blunt/One fine	\$19.50
9M	Microdissection scissors	\$13.80
LSH1	Scalpel Handle	\$55.91
LSHB2	Scalpel Blade #11, 6 pack, Slanted End	\$12.87
ANG	Angle Probe	\$2.93
LFC1	Forcep, Curved End, Medium Point	\$22.68
LFS4	Forcep, 4" Straight End, Super Fine Point	\$9.48
LFC4	Forcep, 4" Curved End, Super Fine Point	\$7.98
N32	Bent Teasing Needle, 6 pack	\$2.10



Disposable Petri Dishes

Sterile petri dishes made of polystyrene are conveniently disposable. 15 mm x 100 mm. Packed in box of 25.

LPD15



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Serological Pipettes

These polystyrene serological pipettes are both accurate and economical. The one-piece design eliminates mouthpiece and tip breakage. Pipettes feature highly legible graduations and contamination-free cotton plugs. Sold in packs of 25.

	Capacity (mL)	Overall Length	
PLP1	1	27 cm	\$16.50
PLP2	2	27 cm	\$22.35
PLP5	5	30 cm	\$20.25
PLP10	10	30 cm	\$36.60
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Graduated Transfer Pipettes, Disposable

One-piece plastic pipette with clearly marked graduations in 0.25 mL increments (model LP5) and 1 mL increments (model LP3). The stem narrows down to a fine tip. Sold in packs of 500.

	Capacity (mL)	Overall Length	
LP5	1	6%"	\$84.45

Measuring Pipettes

Made of translucent polypropylene. Easy to read and highly chemicalresistant. Delivers to tip, last drop must be blown out.

	Capacity (mL)	Overall Length	
LPM1	1	31 cm	\$17.25
LPM2	2	36 cm	\$18.90
LPM5	5	33 cm	\$20.70
LPM10	10	30 cm	\$8.55

Graduated Poly Beakers

These autoclavable polypropylene beakers will withstand temperatures up to 120°C. Graduated in both mL and ounces, with no drip pouring

SUPPLIES

Lab Equipment & Pipettes

LGB050	50 mL	\$2.85
LGB100	100 mL	\$3.30
LGB250	250 mL	\$4.05
LGB500	500 mL	\$7.95
LGB1	1,000 mL	\$12.00

Graduated Cylinders

Molded of heavy duty and chemically resistant translucent polypropylene, with permanently molded graduations that won't fade after repeated autoclaving.

	Capacity	OAL	
LGC100	100 ml	24 cm	\$12.00
LGC250	250 ml	31 cm	\$13.80
LGC500	500 ml	37 cm	\$19.80
LGC1000	1,000 ml	45 cm	\$24.30

Graduated Glass Beakers

These graduated beakers are made from sturdy borosilicate glass and feature heavy wall construction to resist breakage. Easy to read scales indicate volumes accurately to ±5%.

Capacity	Graduation	OAL		
50 ml	10 ml	6 cm	\$5.00	
100 ml	10 ml	7 cm	\$4.80	E .
150 ml	10 ml	8 cm	\$5.85	7
250 ml	25 ml	10 cm	\$5.40	Mind
400 ml	100 ml	12 cm	\$6.75	
600 ml	50 ml	13 cm	\$8.00	
1,000 ml	50 ml	15 cm	\$17.55	
2,000 ml	100 ml	19 cm	\$37.20	
	50 ml 100 ml 150 ml 250 ml 400 ml 600 ml	50 ml 10 ml 100 ml 10 ml 150 ml 10 ml 250 ml 25 ml 400 ml 100 ml 600 ml 50 ml 1,000 ml 50 ml	50 ml 10 ml 6 cm 100 ml 10 ml 7 cm 150 ml 10 ml 8 cm 250 ml 25 ml 10 cm 400 ml 100 ml 12 cm 600 ml 50 ml 13 cm 1,000 ml 50 ml 15 cm	50 ml 10 ml 6 cm \$5.00 100 ml 10 ml 7 cm \$4.80 150 ml 10 ml 8 cm \$5.85 250 ml 25 ml 10 cm \$5.40 400 ml 100 ml 12 cm \$6.75 600 ml 50 ml 13 cm \$8.00 1,000 ml 50 ml 15 cm \$17.55

Glass Erlenmeyer Flasks

Made from high quality borosilicate glass, these flasks have thick wall construction with metric scales. Ideal for culturing microalgae.

	Capacity	Graduation	OAL	
GE125	125 ml	25 ml	11 cm	\$6.90
GE250	250 ml	25 ml	14 cm	\$8.55
GE500	500 ml	50 ml	17 cm	\$12.00
GE1000	1,000 ml	50 ml	22 cm	\$22.20
GE2000	2,000 ml	50 ml	28 cm	\$55.05

Graduated Glass Cylinders

These all glass cylinders have metric scales and sliding, hexagonal bumper guards to resist roll and breakage. Canacity Graduation OAI

	Capacity	Graduation	OAL	
GC10	10 ml	0.1 ml	18 cm	\$10.65
GC25	25 ml	0.2 ml	21 cm	\$15.15
GC50	50 ml	0.5 ml	22 cm	\$16.50
GC100	100 ml	1.0 ml	24 cm	\$17.85
GC250	250 ml	2.0 ml	30 cm	\$25.35
GC500	500 ml	5.0 ml	36 cm	\$46.34





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Dispensing Bottle

511654

Adjustable Volume. Convenient dispensing bottle will measure any amount from 5 mL to 25 mL. Low density

polyethylene storage bottle will hold 500 mL of liquid.

Commonly used to dispense nutrients and other common solutions used in aquaculture.

\$39,44

Shoulder Length Gloves

These shoulder length gloves will cover your whole arm and have a strap that runs behind your shoulder to prevent them from falling down. The



Shoulder Length Gloves 26" shoulder length sleeve with flexible &

	litrile coating.	THE MOTE OF	10 10 mg
GSLYM♦	Medium	\$27.50	
GSLY♦	Large	\$27.50	F 1 1
GSLYXL◆	Extra Large	\$27.50	Design of the second

Scales

These digital, hanging scales are mounted in heavy plastic cases, well suited for aquaculture uses. Shock resistant and weatherproof, they measure in both kilograms and pounds. 1" digital readout with 0.1 resolution. Include stainless steel hooks and hangers. Use a 9 V battery (included). One year warranty.

CS25	50 lbs Scale	\$937.20
CS225	250 lbs Scale	\$937.20

Mechanical Hanging Scale

All models feature a glass covered 7" dial that reads clockwise. These Chatillon scales feature a corrosion resistant band, bezel and housing, and have a rugged steel inner frame. Scale capacities are reached in two pointer revolutions. Scoops measure 12" x 13" x 6" deep, galvanized steel. Model SB7 is classified as "Legal for Trade". One year warranty.

0,00

= % %

	Style	Capacity	Increments	
SB7♦	Hanging Scales with Scoops	20 lbs (Legal for Trade)	1 oz	\$396.30
SB8	Hanging Scales with Hook	60 lbs	1 oz	\$547.10



LaCrosse ZXT Insulated Waders

Heavy duty, fully booted and easy to clean, the ZXT chest waders feature our premium, natural rubber that won't crack in the cold, won't get soft in the heat and won't ever let you down when you need it most. Unlike a neoprene wader, this full rubber chest wader won't absorb smells, bacteria or other chemicals. We add an insulating layer of foam and a removable wool-felt midsole to keep you warm in the deepest mud and muck. Waders are all black.

nacia rraacis	are an black	
LACWAD9♦	Size 9	\$270.00
LACWAD10♦	Size 10	\$270.00
LACWAD11♦	Size 11	\$270.00
LACWAD12+	Size 12	\$270.00
LACWAD13♦	Size 13	\$270.00
LACWAD14♦	Size 14	\$270.00
LACHEST*	Suspenders	\$18.95



Agua Gloves

Designed to keep arms and hands completely dry when working in ponds, tanks and aquariums. Full arm length (28" total) with elastic bands to hold them snugly on the upper arm. Flexible PVC with fiber reinforced sleeves. Hands are a textured, thicker material for increased grip and longevity.

AG2♦ \$12.00



Handheld Scale

The perfect portable! Both models have energy saving shut off feature and a large LCD display. The weigh pans measure 3" diameter. Both units run on two AAA alkaline batteries (included). Weighs in grams, ounces, troy ounces and pennyweight (dwt). The SB564 features a backlit display and protective cover. Ship weight 3 lbs. One year warranty.

SB563	120 g x 0.2 g	\$250.50
SB564	320 g x 0.1g	\$313.50



Portable Scales

The OHAUS Scout Pro Portable Balances feature easy-to-use two-button operation, a highcontrast LCD display, multiple weighing units, Application modes include Weighing, Parts Counting, Percent Weighing, Check Weighing, Animal/Dynamic Weighing, Totalization, Density Determination, Display Hold, Mole Weighing, and the option of either RS232, USB, Ethernet, Bluetooth, USB Host. AC Adapter (included) or 4 AA batteries (not included). One-



• ABS housing, removable stainless steel weighing platform

· Low battery indicator and auto shut-off

	Capacity (lbs/grams)	Readability (grams)	Platform Size		
SPX41	0.49/220	0.01	4¾" dia	\$518.25	
SPX42	0.93/420	0.1	4¾" dia	\$252.00	
SPX43	1.37/620	0.1	6¾" x 5½"	\$423.75	
SPX44	4.85/2200	0.1	6¾" x 5½"	\$534.00	SPX41

Bench Scales

Low profile design, reads in kg, lb and oz. They have a large platform with leveling feet, large LCD, membrane keypad, auto zero tracking and stability indicator. The 3 way mounting bracket allows the indicator to be mounted to the scale base, above the scale platform or on any vertical surface. Powered by a 9 V adapter, included (or six AA batteries not included). Indicator stand is 4". ES6R through ES50R platforms measure 12 1/4" x 10 3/4" x 11/2". ES100L and ES200L measure

20 1/2" x 15 3/4" x 3". Platforms are stainless steel with baked enamel finish. One year warranty.

ES6R	6 kg x 0.002 kg	\$919.8
ES30R	30 kg x 0.01 kg	\$919.8
ES50R	50 kg x 0.02 kg	\$919.8
ES100L	100 kg x 0.05 kg	\$984.4
ES200L	200 kg x 0.1 kg	\$984.4



SPX43



Washdown Digital Bench Scale

The Ohaus Defender® 5000 Series is ideal for production, packaging and general commercial and industrial weighing applications where full washdown protection is required. All-stainless steel washdown base and stainless steel column with IP66/NEMA 4X protection for indicator, with load cells protected to IP67. Multifunctional indicator with multiple weighing units and software modes to meet the requirements of industrial and lab applications. Includes comprehensive, yet intuitive software and multiple connectivity options. Multiple weighing modes including counting, percent weighing, dynamic/animal weighing, check weighing and display hold. Has internal universal switching power supply with hardwired line cord and includes RS232 interface with GMP/GLP data output including date and time. One year warranty.

	Capacity (lbs/Kg)	Readability (lbs/grams)	Platform Size	
WDS50	50/25	0.005/2	12"x 12"	\$2,046.00
WDS100	100/50	0.01/5	18"x 18"	\$2,833.50

Electronic Scale

The SB200, SB2 and SB5 portable balances feature full capacity tare and high contrast LCD display reading in grams or pounds. They have a 51/2" diameter platform and operate on three AA batteries (included). One year warranty. The SB120 features auto-calibration and a 4¾"x 6½" platform with an AC adapter

included (or use eight AA batteries, not included). One year warranty.

SB200	Top Loading, Portable, 200g x 0.1g	\$203.25
SB2	Top Loading, Portable, 2,000 g x 1.0 g	\$203.25
SB5	Top Loading, Portable, 5,000 g x 2.0 g	\$234.75
SB120	Top Loading, 2,100 g x 0.1 g	\$549.79

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- Standard Stock Item

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877-669-1096

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+-Standard Stock Item

SUPPLIES

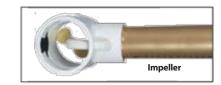
Water Flow Probe

Perfect for monitoring spring runoff and tank flows. This water flow probe is a lightweight, easy to use water velocity meter. It is highly accurate and comes complete with LCD digital display, internal ball bearings and a telescoping handle. Shipped in a padded case for safe carrying.

Probe measures both instantaneous velocity (accuracy 0.5 feet per second (fps)) and average velocity (accuracy 0.1 fps). Reads in fps and meters per second (m/sec). Range is 0.3 to 19.9 fps (0.1 to 6.1 m/sec). Datalogger stores 30 sets, including MIN, MAX and AVG. Unit also displays true digital running average, updated once per second. Sensor is a protected Turbo-Prop propeller with magnetic pickup.

Internal lithium battery is non-replaceable and has about a 5 year life. One year warranty.

Flow Probe, 3.7' to 6' Handle \$1,329.30 FP7 Flow Meter, 5.5' to 15' Handle \$1,426.95



Secchi Disk and Decals

The plastic Secchi disk is a standard for measuring the relative visibility of water. Lower it into the water and when it disappears, record its depth. We offer two 8" (20 cm) diameter

Secchi disks without lowering lines. SEC is the 21 oz silk screened plastic with stainless steel eye bolt and lead weight. SE1 is a black and white vinyl decal for freshening up any 8" Secchi disk or for making your own.

SE1+ Decal Only \$10.35 SEC Disk \$42.00

Horizontal Water Sampler

Simplified, 1 liter, horizontal style sampler features a clear acrylic body with a built in outlet for removal of the water sample. A brass messenger is sent down a 20 meter, calibrated, nylon line to trigger a release mechanism sealing the sample chamber. The seal is made with two heavy plungers. A lead collar surrounds sampler to eliminate drift. Messenger and calibrated line are included.

LM1077 \$360.00



\$188.90

LM1060

Sampling & Measurement Kit, Marine Science

This rugged combination outfit is easy to transport, simple to use and a necessity for any salt water field sampling. Durable, reliable sampling gear and measurement devices all housed within a rugged field carrying case for easy transport and storage.

Kit includes: Forel-Ule color comparator kit and Secchi disk (20 cm in diameter) to determine turbidity and degree of visibility in water columns; bottom sampling dredge to obtain bottom sediment for surface analysis; D.O. water sample bottle to collect water samples for analysis at controlled depths (holds 60 ml of sample); plankton net to collect plankton and invertebrates for surface studies (153 micron mesh net is 15" in length and has a 5" diameter mouth and two 50 ml collection tubes at end); armored thermometer in protective, plastic jacket for accurate temperature readings (range is 5 to 45°C); sounding lead and calibrated line (includes a 2 lb weight and a nylon sampler line marked from 0 to 20 m in one meter



"Rite in the Rain" Paper and Notebooks

"Rite in the Rain" paper and notebooks are an all-weather writing paper specifically designed to shed water in any weather condition. This paper will insure your notes and data survive the worst of outdoor research conditions. When your data is too important to be lost and you are working in the rain, wet labs, aquaculture facilities or in a boat you will find that this is a great solution.

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Rite in the Rain Shirt Pocket Book

This spiral bound booklet is 3"x 5", has 50 sheets. horizontal lines and a polyethylene cover.

RR135♦ \$5.15

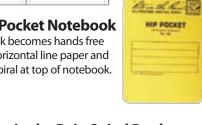
Shirt & Hip pocket Pattern

Rite in the Rain Hip Pocket Notebook

A hip pocket, spiral notebook becomes hands free when not in use. Features horizontal line paper and a polyethylene cover. Wire spiral at top of notebook. 50 sheets, 4" x 6".

RR146♦ \$6.70

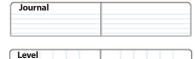
HORIZONTAL LINE

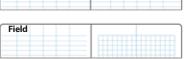


Rite in the Rain Spiral Books

The all weather spiral notebook is great for fitting into tight spaces. A flexible polyethylene cover folds back and has a side wire spiral. Perfect for field trips. Numbered notebook pages 1 through 64. 32 sheets, 4%" x 7".

RR393♦	Journal Pattern	\$9.50
RR313♦	Level Pattern	\$9.50
RR353♦	Field Pattern	\$9.50





Rite in the Rain Field Notebook This 81/2" x 11", spiral bound notebook has

24 sheets and a polyethylene cover.

RR393MX♦ Journal Pattern **RR313MX**♦ Level Pattern

\$23.40 \$23.40

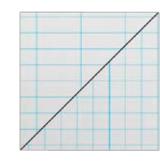
Staple Bound Notebook

The Rite in the Rain Staple Bound Notebook is compact, flexible enough to slip into a pocket, and its durable cover defends against weather and wear. The patented paper is water-resistant, archival-grade, and available page patterns are optimized for your data collection. This is a notebook that can be brought anywhere and survive any weather. Sold in packs of three. 48 pages. 4%" x 7".

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3 pack, 4%" x 7"





Rite in the Rain Copy Paper

200 sheets per pack. Customize your own waterproof forms. This paper allows you to create a form that will meet the needs of your work. This works in all laser printers and copiers.

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SUPPLIES

Rite in the Rain

RR8511♦	8½″x 11″	\$44.50
RR8514	8½"x 14"	\$56.00
RR8517	11"x 17"	\$85.70



Rite in the Rain Grid Sheets

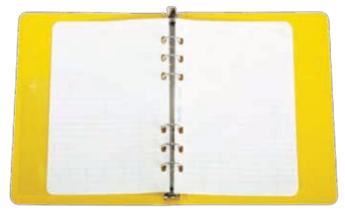
81/2" x 11" "Rite in the Rain" sheets in a choice of patterns. Printed on one side. Sold in packs of 100 only.

RR1104♦ ¼ " Quadrille Grid \$28.72

Rite in the Rain All Weather Binder

This 6 ring binder has a hard polyethylene cover and contains an inside clear plastic pocket on the inside front cover. Great mini notebook for field notes. Binder is chrome and contains anti-rust metals. Designed to hold 100 leaves and measures 511/16" x 73/4". Paper sold separately.

ı	RK200	All Weather Binder	\$16.40
ı	RR312	Level Paper, 100 sheets	\$18.20
	RR392	Horizontal Lines, 100 sheets	\$18.20



Rite in the Rain All Weather Pen

All weather pen with black ink.

All Weather Pen RR97 \$20.80 RR37R Refill \$9.10



877-669-1096

Miniature Plankton Nets

Ready to use high quality nets manufactured to our specifications and designed for long use. Not cheap poorly constructed imitations. These small plankton collecting nets are ideal for sampling ponds or for small scale plankton cultures. Net is conical in shape, 5" in diameter by 15" long with a 1"threaded female PVC outlet for easy attachment of any type of collector or piping you desire. Comes with two screw-on, 50 ml, conical, removable collecting tubes. Brass mouth ring and harness for towing included. Mesh sizes, 50 and 153 microns.

MPN153	153 micron	\$126.30
MPN50	50 micron	\$126.30

Plankton Nets

Designed for biological, limnological and oceanographic studies, these nets are also used for a variety of aquaculture applications, including plankton and larval collecting. Each net includes a stainless steel mouth ring/towing bridle, cod end ring, rubber coated hose clamp and a 1 liter capacity cod end iar.

	Mouth Diameter	Net Length	Micron	
PKN1	30 cm	90 cm	35	\$653.70
PKN2	30 cm	90 cm	63	\$600.15
PKN3	30 cm	90 cm	80	\$585.90
PKN4	30 cm	90 cm	100	\$557.55
PKN5	30 cm	90 cm	150	\$541.80
PKN7	50 cm	150 cm	150	\$786.00
PKN9	50 cm	150 cm	335	\$752.85



steel eye bolt and lead weight. SE1 is a black and white vinyl decal for freshening up any 8" Secchi disk or for making your own.

SE1♦	Decal Only	\$10.35
SEC	Disk	\$42.00

Sieve Sets

Used to separate and grade samples, these sets are great for students. S548 includes six interlocking sieves with plastic frames and graduated, stainless steel wire screens; a solid container at the bottom and a snap on lid (US Bureau of Standards mesh sizes 5, 10, 35, 60, 120 and 230). Weighs 3.25 lbs. S3076 consists of four high impact plastic sieves, with graduated mesh sizes (5, 10, 60 and 230), solid container at the bottom, and lid. Sieves measure 634" x 3" each.

S3076	4 piece Sieve Set	\$117.00
S548	6 piece Sieve Set	\$162.30

Micron

5,205

2,487

1,923

1,307

1,000

840

710

590

500

420

297

250

210

10

14

18

20

25

30

35

40

45

50

60



Inches

0.0079

0.0059

0.0049

0.0041

0.0035

0.0029

0.0024

0.0021

0.0017

0.0015

0.0009

0.0006

0.0004



Conversion Chart

Mesh

80

100

120

140

170

200

230

270

325

400

550

800

1,250

177

149

125

105

88

74

62

53

44

37

25

15

10

Inches

0.2030

0.0970

0.0750

0.0510

0.0394

0.0331

0.0280

0.0232

0.0197

0.0165

0.0138

0.0117

0.0098

0.0083

Zooplankton Counting Wheel

Especially suited for low powered microscopes, this counting wheel will hold 5 to 10 ml samples in the trough. Sample trough has a divider to mark start and finish. Zooplankton are

counted as the wheel is turned, making it easy and accurate. Precision made from acrylic and includes a 4" (10 cm) base.

181080 \$158.99

Hemacytometer

Count algae cells, blood cells and other small stuff with these pocket size counting chambers and a microscope. Consists of molded glass compartment with H shaped moat, forming two counting areas. Each counting area has double Neubauer rulings with 400 small squares in a central 1 mm



square. The rulings appear as white lines on dark background when viewed through the microscope. The cover slips cover the moat region 0.1 mm above the ruled surface, which aids in precise loading and even cell distribution. V shaped slashes help in loading by reducing overflow into the moat.

M36 Hemacytometer \$527.40

Farmers and researchers have found that fish tags are one of the best ways to identify individual fish. They can be used to distinguish male fish from females and broods from the rest of the stock. They can mark genetic strains and individual fish for research and growth studies. We offer the popular T bar anchor tags in both flag and number styles. They are easy to insert, cause minimal stress and can remain in the fish for years. The flag tag is 2½" long with a ¾" x ¾" flag (no labeling possible). Available in seven colours. The number style is similar to the flag style without the flag. Our standard colour is international orange with black numbers. Available in No. 1 through 100, No. 1 through 500, and No. 1 through 1,000. The tagging gun, which is compatible with both tag styles, uses a needle to insert the tags to a depth of 5%". Custom printed tags and other styles are also available.

Fish Tags

FFT1	Lt. Blue Flag Tags, 100/pk \$7.4	
FFT2♦	Dark Blue Flag Tags, 100/pk	\$7.49
FFT3	Yellow Flag Tags, 100/pk	\$7.49
FFT4	Red Flag Tags, 100/pk	\$7.49
FFT6♦	Orange Flag Tags, 100/pk	\$7.49
FFT7♦	Dark Green Flag Tags, 100/pk	\$7.49
FFT9	Clear Flag Tags, 100/pk	\$7.49
FTN100	No. 1 to 100 Orange Tags, 100/pk	\$203.25
TG♦	Tagging Gun	\$69.25
TGN	Replacement Needle	\$31.50
TGS	Needle Sharpener	\$21.90

TG

Measuring Board

These specially-designed measuring boards are made with a smooth, nonporous surface that is tapered toward the center to hold fish securely for sampling. The header panel is designed to accommodate a clipboard for ease of record keeping in measurement operations. The measuring board is constructed of lightweight plastic which wipes clean easily, and is capable of enduring seasons of rough use. The measuring tape imbedded at its center may be removed and replaced.

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SUPPLIES

Tagging Tools & Measuring Boards

5640	100 cm, 3½" x 11%" x 50" long	\$330.0
5641	30 cm, 1" x 3¾" x 14¼" long	\$72.0



Fish Measuring Board

Quick and easy to use! This economical board is easy on the fish and easy to use. Made entirely of ABS with permanent markings in inches with $\frac{1}{100}$ divisions and in centimeters. Overall length is 24" (60 cm).

MB2	\$106.20



Tagging Fish

Fish tags can be useful in fisheries research, as well as broodstock management. When used with proper record keeping, tags can keep track of sex, age, genetic line, year class, dispersal patterns or that the fish's name is "Bob."

Making a good tag consistently can take some practice, but the following general procedure can be followed for most species of fish. The goal is to set the "hook" of the tag into the dorsal fin rays that extend into the musculature of the fish. This means you should actually feel the bone when setting the tag.

1. Hold the fish firmly in the swimming position when it is tagged to reduce movement. Anesthetized fish should be held firmly as well. Squirming fish can bend the needle and cause injury.

2. Using the needlepoint, lift up a scale on the left side of the fish and insert the needle at the anterior (forward) base of the dorsal fin, forcing it forward through the dorsal rays.

3.Once the needle is inserted, hold the gun firmly against the fish's body while compressing the handle firmly.

4.Twist the gun slightly and remove the needle. DO NOT RELEASE THE COMPRESSED HANDLE UNTIL THE NEEDLE HAS BEEN WITHDRAWN. Once withdrawn, release the handle slowly to make certain the next tag is fed into position for tagging. Failure to do so may cause feed mechanism to skip.

5.Tug the tag lightly to set.

One final note: disease transmission can be a concern when tagging fish. To minimize risk, swab the needle with rubbing alcohol, iodine, etc., after each tag.

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Mechanical Flow Meter

Automatically stays horizontal! These compact, mechanical velocity meters are designed for measuring water flow in lakes, rivers, canals, estuaries, sewage out falls and offshore applications. They are ideal for determining water speed, volume or distance. The meters incorporate a precision molded rotor coupled directly to a six digit counter that registers each revolution of the rotor and the display is similar to an odometer (up to 999,999 equal to approximately 14.5 nautical miles). The counter is located within the body of the instrument and is displayed through the clear plastic housing. The meters are properly balanced so they maintain a horizontal position when suspended by a towing line.

After completing each sampling, simply remove the meter and record the reading and time. By subtracting the first reading from the second, the average speed over a given sampling time can be calculated. Each flow

meter measures 8 %" long, 1 %6" in diameter and includes 18" of tow line

and a stainless steel connecting axle pin. One year warranty.

203001 High Speed Meter, 10 cm/sec to 7.9m/sec \$754.50 203002 Low Speed Meter, 2 cm/sec to 10cm/sec \$786.00

Handheld Sonar System

Finds depth and fish!

This versatile, handheld depth finder will give instant readings in feet or meters from 2.5' to 200' (0.8 to 61 m). The digital backlit display will show depth (and fish!) or switch to display air and water temperature (°F). Waterproof up to 50', it shoots through fiberglass hulls and ice and floats if dropped in water.

Powered by four AA batteries (not included) and measures 7" x 2" x 2". Two year warranty.

DPX200 \$172.80



Bottom Sampling Dredge

What does your bottom look like? Our "all stainless steel" dredge features a bottom sensing closure that eliminates the need for a messenger weight! This dredge is a convenient sediment collecting device for mud, sand, ooze and light gravel. A newly designed trigger insures that the jaws stay open during descent. Sampling volume is 110 in³. Sampling area covered by open dredge: 45 in² (114.3 cm²).

LM1097 \$292.50



Easily fits in your hand to be thumb operated. The register advances by one digit, up to 9,999, each time the button is pressed. A turn of the side knob resets the register back to zero. It's a great tool for counting algae cells, zooplankton, fry, people, etc.

M42 \$20.50

D-Shaped Net

This sampling net has a heavy cotton/polyester bag and is secured to a 12" wide D frame. The bag depth is 8", bottom mesh is approximately 500 microns and is protected from snags and wear by a 4" skirt. Includes a 4 to 8' telescopic aluminum handle.

LM100♦ Net \$109.90 LM100R Repl Bag

Calibrated Sampler Line

This heavy duty nylon line is marked from 0 to 20 m in one meter increments. Great for use with Secchi discs, bottom grab samplers and water samplers. A 2 lb spring clip is attached to one end for easy attachment. Line is wound on a foam spool to prevent loss if dropped overboard. LM1064 includes a 2 lb (908 grams) lead weight.

LM1065 Calibrated Line \$67.10 LM1064 Calibrated Line with Lead Weight

Polyethylene Black Tanks

These heavy duty tanks are inexpensive because they are made of 100 percent recycled polyethylene. They are durable and UV resistant. Lots of uses, from water storage to biofilters to quarantine tanks. All are nestable for compact storage and lower shipping costs.

	Shape	Dimensions	Gallons	
KMT100 ♦	OvalTub	53"x 36"x 20" h	110	\$136.50
KMT160 ♦	Oval Tub	58" x 41" x 21" h	160	\$184.00
KMT98 ♦	Oval Tub	61"x 42"x 24" h	180	\$245.00
KMM98♦	Mortar Tub, Large	63" x 33" x 12" h	90	\$153.00
KMR75♦	Square Tub	46" x 31" x 17" h	75	\$117.50
MCK70BK◆	Muck Bucket, Black	21" dia x 16" h	171/2	\$25.00







Important

We have tried to make this catalogue as comprehensive and factual as possible. However, we reserve the right to make changes to prices without notice. Manufacturer's specifications may change without notice.

Heavy Duty Plastic Tub

These are generally easier to install than liner since their shape and depth are pre-determined. All you need to do is excavate an appropriately

Made of rigid, heavy duty polyethylene construction, the injection molded basins are

designed to withstand all kinds of extreme conditions, including heavy water loads, hot summers, and frigid winters. A variety of sizes are available and all are guaranteed to resist cracking, peeling, and fading for ten years. They are safe for fish, aquatic plants and wildlife.

PT786	18 ½ gal	Round, 26" dia x 12½" deep	\$28.00
PT788 ♦	60 gal	Rectangle, 42" x 28½" x 12" deep	\$110.00
PT795 ♦	127 gal	Rectangle, 51" x 31½" x 18" deep	\$285.00
PT796	341 gal	Rectangle, 71" x 47" x 24" deep	\$540.00



Koi Show Bowls

These low cost, polyethylene koi bowls come in two styles: light duty (191/2 gallons) for the koi hobbyist, and heavy duty (23 gallons) for the commercial farmer. The royal blue colour is excellent for showing koi colours.

KB4	21" dia. x 11", Light Duty	\$66.1
KB9	27" dia. x 12" Heavy Duty	\$110.7

Pond Biofilter/Spillways

Designed to be buried and hidden with rocks, these plastic biofilters

feature a wide spillway. Water is pumped through a bulkhead fitting in the bottom. As water travels up, it passes through a perforated bottom diffuser, optional biomedia (not included) and then out the spillway. A media bag and foam filter disc are included.



	Spillway	Dimension	Bulkhead	Pond Size	
BF1600	17" wide	22"x 20"x 18"h	1½"	1,250 gal	\$330.00
BF1900	19" wide	28" x 25" x 22" h	2"	2,000 gal	\$480.00
BF2600	26" wide	36" x 25" x 23" h	2"	4,000 gal	\$580.00
BF3800	38" wide	47" x 30" x 23" h	3″	8,000 gal	\$920.00

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TANKS

Polyethylene Tubs क्ष Tanks

FANKS

Atlantic FastFalls Weirs

Create a waterfall instantly using the Atlantic water garden FastFalls. This unit features a 11/2" FNPT intake which allows water into the reservoir, and Teflon plumber's tape that secures the fitting is included. The large reservoir opens onto a wide spillway for a dramatic waterfall. A screen sits above the reservoir to help evenly disperse the flow of water. Installation accessories, such as bulkhead fitting and sealant, are included for easy setup. Add the calming sounds of moving water to your water garden with a waterfall from Atlantic water garden FastFalls.

SP1400♦	14" Waterfall Weir	\$110.00
SP2500♦	25" Waterfall Weir	\$190.00
SP3600♦	36" Waterfall Weir	\$250.00
SP4800◆	48" Waterfall Weir	\$430.00



Savio Waterfall Weir

This weir is easy to install and provides the tranquil sounds and visual splendor of a cascading waterfall. This is the way for do it yourselfers, and pond pros alike, to create an impressive, dramatic display of falling water, with professional results. For larger waterfalls use the 31" weir, or create a waterfall cascade by installing two or more weirs in a stair step pattern. Manufactured with a super strong injection molded housing unit, this exceptional waterfall weir is easy to retrofit to existing ponds. Inlet connects for 16" weir is 2"I.D. PVC fitting. The 31" weir has two 3" inlets (one on each side) and one 3" plug to close off the unused inlet.

F050 ♦	16" Weir with a 2" inlet	\$198.00
F060 ♦	31" Weir with Two 3" inlet	\$380.00



Flexible Basins

These flexible basins are the perfect choice for custom block reservoirs up to 8' wide, especially in northern climates, where frost proofing masonry can be a concern. Available in grey to



complement block colours, these rip stop PVC Reservoirs eliminate corner folds and wrinkles. Basins include pre-punched 11/2" bulkhead(s) with 10" x 10" backing plates to add strength.

FF4216G	4'l x 2'w x 16" high	80 gal.	1 bulkhead	\$430.00
FF6216G	6'l x 2'w x 16" high	120 gal.	2 bulkheads	\$550.00
FF8216G	8' l x 2' w x 16" high	160 gal.	2 bulkheads	\$610.00

EPDM Liners, 45 mil

Ideal for most backyard ponds, the Firestone PondGard® 45 mil EPDM

liner is the liner of choice. Extremely flexible, it is easy to work with and will conform to a pond's features. It is completely UV resistant and will hold up well in direct sunlight. Carries a 20 year warranty against breakdown but not tears.



LINER05	Liner 5' wide cut to length	\$1.10 per ft ²
LINER10♦	Liner 10' wide cut to length	\$1.10 per ft ²
LINER15♦	Liner 15' wide cut to length	\$1.10 per ft ²
LINER20♦	Liner 20' wide cut to length	\$1.10 per ft ²
LINER30♦	Liner 30' wide cut to length	\$1.10 per ft ²
LINER50	Liner 50' wide cut to length	\$1.10 per ft ²

Pond Liner Underlay

This product will help to maintain your liner by padding it from rocks and roots that may cause punctures. Underlay is a woven material that is resistant to rot and breakdown. This is an essential when installing liner in rocky soil. This material is light to ship, unlike sand, and is easy to install. Sold by the linear foot.

UNDERLAY6♦	Underlay 6' wide per linear foot	\$1.79
UNDERLAY12	Underlay 12' wide per linear foot	\$3.94



Polyethylene Liners for Large Ponds

These heavy-duty pond liners offer superior strength as well as puncture and tear resistance at an excellent price. This is the liner we selected for our 2-acre fire pond. They are resistant to most chemicals, salt and acids. The material will remain flexible at -70°F. Available in width increments



of 10 feet and any length up to 50,000 square feet as one piece. Panels are accordionfolded every 4 to 5 feet and tightly rolled on a heavy core for ease of handling and installation. Sold by the square foot (2,500 ft² minimum). Available in 20, 30 and 40 mil thicknesses. Allow 20 days for production. Ships from factory. Call for pricing.

Liner Cutter

These handy tools will easily cut through multiple layers of liner. This cutter is also safer to use and carry as the blade is contained with the handle. Handle contains extra blade for easy access.

LC1♦	\$17.00	
90	e d	
	The property of	



Bonds EPDM liner to concrete, rock, steel and many more materials. Applies, adheres, and cures underwater. 2 products in 1 - lap adhesive & lap sealant. No additional adhesives or sealants needed. Remains flexible. Works with EPDM membranes, tapes, and patches. 10 oz tube.

LA10+ \$25.00



Spray Adhesive & Primer

Adhesive and primer in one for adhering EPDM to vertical walls. Will cover approximately 70 square feet. 16.5 oz spray can.

AP7877♦ \$34.00

Waterfall Foam

This expandable, black foam is great for securing rock work around ponds and waterfalls. It can be used for filling gaps and sealing rocks so that water falls over them, not between them. 16 oz. can.

BF16**♦** \$33.00

Laguna Black Waterfall Foam

Laguna Black Waterfall Foam is a moisture cured sealant used to fill, seal, and bond. It's ideal for use when constructing a pond and/or waterfalls and naturally blends in with the pond setting. Use it to bond rocks to spillways and to direct water over the falls. Waterfall Foam quickly free in approximately 5 minutes, is cuttable within 1 hour and cures in 12 to 24 hours. After it cures, it can

bonds to most construction materials. It dries tackbe sanded or trimmed. Includes a nozzle adapter to reach into tight spaces. The foam is fish safe and UV protected. Use when air temperature is between 65° F to 80° F (18° C to 27° C). Yield is 2,000′ per ¼″ bead, 875' per 3/8" bead and 500' per 1/2" bead. Results may vary upon use, temperature and ambient conditions. Sold in 12 oz. can.

PT590**♦** \$25.50

Liner Patching Tape

The Double Sided adhesive seaming tape is 3" wide, made of extruded black rubber and designed to join pieces of EPDM liner together to form a watertight seal. The Patching Tape is 6" wide, has single side adhesive and works great for patching holes and covering seams. Both for EPDM liners only. Sold by the foot.

ST3F♦	3" Double sided, per foot	\$2.30	
ST6F	6" Double sided, per foot	\$5.05	
PT6F♦	6" Single Patching Tape, per foot	\$3.75	

Disappearing Water Feature Basins & Vaults Little Giant heavy-duty disappearing water

feature basins and vaults are perfect for inground installations. Our basins are ideal for small applications when you want the soothing sounds of water but are limited on space. Basins sit flush with the ground and the sectioned access plates make maintenance a breeze. Cover your basin with a wide variety of rocks or pottery (not included) for a low maintenance disappearing water effect.



DFB36	Round Basin, 36" dia. x 10¾" high, up to 2,000 lbs	\$384.00
DFB44	Square Basin, 44" x 44" x 11" high, up to 3,000 lbs	\$665.00
SF	Pump Vault, 19" dia. x 22" high	\$194.00
FF4	Set of Four Fountain Support Feet for DFB36	\$35.00



Pump vault that are a one piece construction to add strength and durability. These sumps have plenty of room for both large and small pumps. These vaults have large openings, cut lines for pump discharge and extensions. Lid included to prevent debris from entering the vault.

PV1700 has a flat panel that installs tight against Eco-Blox or a side.

Dimensions 17"x 17"x PV1700 Flat sided 3,900 gph \$260.00 Pump Vault 221/2" high 18" dia x 24" high \$310.00 PV1800 18" Pump Vault 10,000 gph PV18EXT 18" Extension 161/2" dia x \$210.00 191/2" high \$540.00 PV2300 23" Pump Vault 23" dia x 30" high 15,000 gph PV23EXT 23" Extension 21½" dia x \$250.00 191/2" high



Fish Pond Coating

New concrete leaches alkali, creating pH and water chemistry problems for fish. Concrete will also leach calcium carbonate into your pond.

Calcium carbonate is a necessary factor for algae growth. With H55B you can instantly seal and leakproof new and old concrete, block and brick. Offered in black, it can be brushed, rolled or sprayed with an airless gun in two or more coats (one hour apart). One gallon covers approximately 100 square feet. After a 72 hour cure period, fill with water and stock with fish. H55B**♦**

\$64.00

TANKS

Rectangular Sealed Tanks and Filter Sumps

Made of molded polyethylene, but these are right from the mold. The sealed tanks have not been cut open or drilled and are completely sealed. This allows for customization with the use of a drill, router or jigsaw. Make sumps, storage tanks, hauling tanks, filters, etc.

Building your own filtration system? Need a sump for a tank system? Before you spend a lot of money, you might want to check these molded polyethylene sumps. These sumps feature pre-cut open tops with a center brace for support (in larger tanks only). Add "S" to the **beginning** of the part number for the precut sump option. Tanks and sumps are a natural white colour. Wall thickness is approximately 3/6", all other dimensions are approximate.

	Size	Dimension (I x w x h)	Price for Tanks	Price for Precut Sump
102020	20 gallons	24"x 16"x 12"	\$188.40	\$235.80
207020	20 gallons	16"x 18"x 16"	\$188.40	\$235.80
103030	30 gallons	30"x 12"x 20"	\$240.30	\$288.45
207030	30 gallons	42½″x 10½″x 16″	\$240.30	\$288.45
208040	40 gallons	27"x 17"x 20"	\$334.05	\$394.05
207045	45 gallons	44" x 16" x 16"	\$360.75	\$470.85
207055	55 gallons	32"x 20"x 20"	\$490.65	\$527.85
209055	55 gallons	42"x 15"x 20"	\$490.65	\$527.85
300086	86 gallons	31" x 24" x 28½ "	\$567.45	\$628.20
207095	90 gallons	55"x 18"x 22"	\$604.05	\$654.45
103110	110 gallons	89"x 14"x 21"	\$764.70	\$817.50
103150	150 gallons	65" x 29" x 20"	\$847.05	\$922.05
103200	200 gallons	85" x 20" x 28½ "	\$1,184.25	\$1,282.35

Graduated Tanks

Graduated containers are especially useful when mixing products. Semi-translucent, natural polyethylene allows the liquid level to be seen from outside the tanks (the resin used for these tanks meets FDA standards). They handle temperatures up to 140°F. The 25 gallon (T25) and 45 gallon (T45) tanks are lightweight and nestable for tank storage and shipping. The 55 gallon tank (T55) comes with a 34″ spigot valve already fitted and is not nestable.

All tanks have $\frac{4}{32}$ " thick walls and ship Ground at dimensional rate. Covers are sold separately (add "L" to the end of the part number).

		Tank Price	Lid Price
T25	25 gal, 18" dia x 28" high	\$186.45	\$56.70
T45	45 gal, 22" dia x 32" high	\$219.00	\$92.40
T55	55 gal, 21" dia. x 36" high	\$297.45	\$79.05

Storage Tanks

These vertical, bulk storage tanks are ideal for mixing and storing make up water, chemicals to be added, liquid waste, etc. Made of polyethylene, they offer excellent chemical resistance and can be used inside or outdoors. The 65 to 850 gallon tanks have a top mounted man way; 1,200 gallon tanks and larger have a side mounted man way. Tanks ship via motor freight only. Allow 4 weeks lead time.

		.,			,	
	Gallons	Diameter	Tank Height	Total Height	Top Opening	
900065	65	23"	39"	43"	8"	\$272.10
900100	100	31"	32"	37"	8″	\$406.95
900165	165	31"	52"	57"	8″	\$513.00
900200	200	47"	26"	31"	16"	\$669.45
900350	325	47"	43"	50"	16"	\$957.14
900500	500	47"	64"	71"	16"	\$990.60
900850	850	56"	74"	82"	16"	\$1,563.00
901200	1,200	76"	54"	66"	16"	\$1,627.50
901600	1,550	76"	73"	85"	16"	\$2,260.10
901750	1,700	76″	81"	93"	16"	\$2,688.70
902200	2,150	76"	102"	114"	16"	\$3,120.65



Polyethylene Tanks

Nestable—**ship 4 or 5 tanks for the same price as one!** Most of these tanks are nestable, which reduces their relatively high shipping cost. We carry these lightweight tanks in a marine blue colour. All tanks have ultraviolet inhibitors for outdoor use. Materials used for these tanks are FDA approved. Another feature of polyethylene tanks is that they can be repaired. Just use heat to soften and reshape.

TP110	Rectangular	55"x 31"x 18" deep	%" thick	110 gal	\$392.25
TP130	Mortar Style	73"x 36"x 12"deep	1/8" thick	130 gal	\$408.00
TP55	Round	21" dia x 38" deep	¾6" thick	55 gal	\$219.00
TP90	Round	39" dia x 20" deep	¾6" thick	90 gal	\$345.00
TP210	Round	48" dia x 30" deep	¾6" thick	210 gal	\$455.25
TP210 TP250	Round Round	48" dia x 30" deep 60" dia x 22" deep	3/6" thick 3/6" thick	210 gal 250 gal	\$455.25 \$628.50
			,,,,	<u> </u>	



Barrel Liner

This liner is designed to fit within a half barrel to create a waterproof barrier. This will allow you to create a water garden in any location. This kit includes a tapered 20 mil liner and decorative thumbtacks.



Tank Covers

Keep fish in and birds out! Made of black polyester, ¼" mesh netting, these covers are great for preventing fish from jumping out of tanks. They feature a drawstring and locking device to hold covers firm.

TC14	Fits 3' to 4' Round Tank	\$55.50
TC16	Fits 5' to 6' Round Tank	\$88.80
TC17	Fits 6' to 7' Round Tank	\$110.85
TC19	Fits 8'to 9' Round Tank	\$132.30
TC13	Fits 3' x 4' Rectangular Tank	\$48.15

www.FishFarmSupply.ca

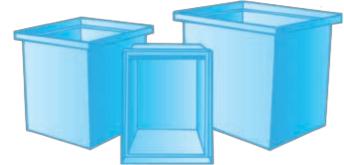




Rectangular Tanks

These rectangular polyethylene tanks are great for a variety of applications, including sumps, filter boxes, bait tanks, formal pond moulds and holding tanks. All have UV inhibitors for outdoor use. These heavy duty tanks are nestable. Tanks are blue in colour, but custom colours are available on large quantity orders.

		1	
PT-534	16 gallons	12"x 18"x 18" deep	\$123.00
PT-536	22 gallons	12" x 18" x 24" deep	\$174.00
PT-540	37 gallons	12" x 24" x 30" deep	\$235.00
PT-588	37 gallons	14" x 26" x 24" deep	\$235.00
PT-608	50 gallons	22" x 22" x 24" deep	\$306.00
PT-568	58 gallons	15" x 30" x 30" deep	\$366.00
PT-604	74 gallons	20" x 24" x 36" deep	\$410.00
PT-616	89 gallons	24" x 24" x 36" deep	\$460.00
PT-620	93 gallons	24" x 30" x 30" deep	\$459.00
PT-625C	111 gallons	26" x 32" x 31" deep	\$490.00
PT-631	135 gallons	32" x 32" x 35" deep	\$531.00
PT-628	140 gallons	30" x 30" x 36" deep	\$459.00
PT-630	150 gallons	30" x 36" x 32" deep	\$490.00
PT-632	162 gallons	36" x 40" x 26" deep	\$561.00
PT-634	180 gallons	33" x 49" x 24" deep	\$612.00



96

Flat Bottom, Nestable Tanks

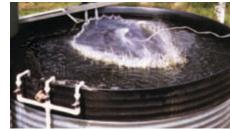
Inexpensive polyethylene tanks are gaining in popularity because of their low cost and long life expectancy. The smooth surface makes for easy cleaning, and their light weight

					be place on any flat surface for
which reduce		•		it can be expe	ensive. These tanks are nestable,
	AxC	В	Gallons		
PT-4822	48" x 22"	40"	125	\$355.00	
PT-4825	48" x 25"	39"	150	\$355.00	
PT-5228	52" x 28"	44"	180	\$390.00	
PT-5430	54" x 30"	41"	200	\$510.00	The second secon
PT-6530A ♦	65" x 30"	53"	300	\$625.00	A
PT-7425	74" x 25"	66"	330	\$695.00	
PT-9016	90" x 16"	80"	300	\$625.00	
PT-8030 ♦	80" x 30"	67"	500	\$780.00	
PT-8038	80" x 38"	67"	600	\$935.00	
PT-9038 ♦	90" x 38"	76″	800	\$1,020.00	C
PT-9132	91"x32"	85"	800	\$1,020.00	
PT-9650	96" x 50"	82″	1200	\$1,375.00	
PT-12048	120" x 48"	108"	2050	\$3,160.00	
PT14448	144" x 48"	131"	3000	\$3,585.00	В ———

Tank Liners

With just a little care to prevent punctures, tank liners can be used for many years. If you do not purchase a good liner, however, you may be in for some trouble. Vinyl is a good liner material and is typically used in tank applications because it can be custom fitted to round tanks. These heavy duty liners are 30 mil thick and sold in black or sky blue.

LZ76B	7′ dia x 6′	\$460.95	LZ216B	21' dia x 6'	\$2,121.00
LZ96B	9' dia x 6'	\$666.45	LZ306B	30' dia x 6'	\$3,117.00
LZ126B	12′ dia x 6′	\$964.35	LRK	Black Repair Kit	\$32.84



Calculation of Pond and Tank Volume

Determining the volume of your pond or tank accurately can be critical for many reasons, including sizing of pumps, piping, filters, etc., when calculating stocking rates and for correct chemical

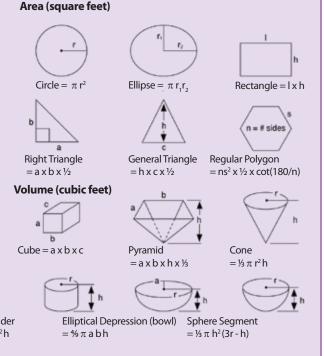
Volume is calculated by multiplying surface area times depth. Some geometric shapes are simple to calculate, e.g., squares, rectangles and circles. Unfortunately, many ponds are free form in shape and/or have variable depths. Their volume can be estimated by dividing the pond surface into simple geometric shapes, calculating the volume of each section based on depth and adding all sections. Be sure to include the water in filters, piping, waterfalls, etc.

The following tables present equations that are used to calculate the area and volume of various geometric shapes.

Alternative methods of determining the volume include:

- 1. Checking with the contractor who built the pond for records of pond area and
- 2. Obtaining aerial photographs from which the pond area can be estimated, 3. Surveying the ponds using a transit to determine area (get depths from topography)
- 4. Drawing the pond on graph paper divided into squares of known size to calculate surface area,
- 5. Determining the area using CAD software,
- 6. Filling the pond using a totalizing water meter or
- 7. Estimating the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by adding a known measure of salt, then determining the volume by th volume by salinity.

Volume in Cubic Feet x 7.48 = Gallons



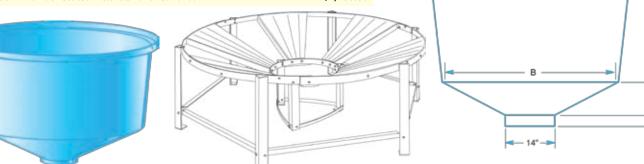
877-669-1096

Conical Bottom, Nestable Tanks

These tanks have all the benefits of our flat bottom tanks with the advantage of a conical bottom. A 20 degree cone bottom forces solids to be removed from the bottom continuously. This allows for our tanks to be self cleaning for months at a time.

These tanks must be supported evenly on the bottom with a stand or by placing them in a bed of sand a least 18" deep.

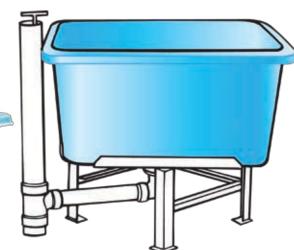
	AxC	В	D	Gallons		
CB6028	60"x 28"	50"	10"	250	\$395.00	
CB7530	75" x 30"	65"	13"	450	\$755.00	
CB8530	85"x 30"	75"	14"	650	\$780.00	
CB9636	96" x 36"	84"	17"	950	\$1,320.00	
CB10260	102"x 60"	80"	10"	1500	\$1,585.00	
CBSP6028	PVC Stand for CB60	028			\$485.00	
CBS6028	Powder Coated Me	Powder Coated Metal Stand for CB6028				
CBS7530	Powder Coated Me		\$1,485.00			
CBS8530	Powder Coated Me	\$1,795.00				
CBS9636	Powder Coated Me	\$2,280.00				
CBS10260	Powder Coated Me	etal Stand for C	B10260		\$2,280.00	



Semi-Square Poly Tanks

If space is a consideration for tank layout, these semi-square (rounded corner) polyethylene tanks will provide a greater volume of water per floor space unit than round tanks, while still providing very good self cleaning capability. They are sloped for complete tank drainage. Standard colour is blue. The nominal wall thickness is between $\frac{3}{6}$ " and $\frac{1}{4}$ ", making a nice sturdy tank. Due to sloped bottoms tanks must be supported by a stand or 18" bed of sand. Dimensions are approximate, due to rounded corners.

	Size	A/B	C/D	Е	F	Н	
SST-2618	50 gal	26"	22"	32"	4"	7"	\$210.00
SST-3127♦	110 gal	31"	28"	27"	3½"	7"	\$375.00
SST-4222♦	180 gal	42"	38"	26½"	4½"	7"	\$480.00
SST-6228	450 gal	62"	58"	37"	9″	11½″	\$980.00
SSFB-2720	50 gal	26"	22"	20"	Flat Bottom	6"	\$240.00
SSFB-3226	100 gal	31"	28"	26"	Flat Bottom	7"	\$360.00
SSIT-2612	Insert Tray	for 50 ga	llon, 26'	′x 26″x 1	2"deep		\$160.00
SSS-2618	Stand for S	ST-2618					\$230.00
SSS-3127	Stand for S	ST-3127					\$285.00
SSS-4222 	Stand for S	ST-4222					\$335.00
SSS-6228	Stand for S	ST-6228					\$664.00
							-



C/D

Polyethylene Tanks

Rectangular troughs are used for hatching fish eggs, invertebrate holding, and many other culture applications. Although not as thick as many reinforced fiberglass tanks, they are still quite durable. Inside gel coat is light blue in colour. Troughs are stackable and ship via motor freight. Custom sizes available in quantity. Prices are before \$300.00 crating and inbound freight charges.

FT120L	120 gal, 96" x 24" x 12" deep	\$445.35
FT180L2	180 gal, 96" x 36" x 12" deep	\$770.70
FT240L2	240 gal, 96" x 48" x 12" deep	\$1,041.90
FT320L2	320 gal, 96" x 48" x 18" deep	\$1,404.90



Fiberglass Tanks with Windows

These tanks are used all over Southeast Asia in hatcheries and farms raising tilapia, shrimp, tropical fish, etc. Rigid, thin wall fiberglass is easy to clean. The blue colour does show scratches, but we guarantee that they will hold water. They have a window for easy viewing of the contents. Turn these tanks into an instant system by adding a filtration module. The top mounting filter features multiple chambers and a lid and can turn the tank into a quarantine system, holding system or even a small grow out system. Prices are before \$300.00 crating and inbound freight charges.

		lxwxh	
FT128W2	Tank, 150 gallons	48" x 30" x 24"	\$711.45
FT160W2	Tank, 180 gallons	60"x 30"x 24"	\$926.10
FT235W2	Tank, 270 gallons	72" x 36" x 24"	\$1,329.90
FT336W2	Tank, 405 gallons	72" x 36" x 36"	\$1,759.50
FT523W2	Tank, 600 gallons	96"x 48"x 30"	\$2,695.50
FT632W2	Tank, 720 gallons	96" x 48" x 36"	\$3,315.00
FFB122	Filter Box for FT128W & FT160W	30" x 8" x 10"	\$137.85
FFB235	Filter Box for FT235W & FT336W	36" x 8" x 10"	\$169.95
FFB523	Filter Box for FT523W & FT632W	48"x 10"x 16"	\$357.60

Rectangular Blue Fiberglass Tanks

Shop and compare prices! These tanks are used all over Southeast Asia in hatcheries and farms raising tilapia, shrimp, tropical fish, etc. Rigid, thin wall fiberglass is easy to clean. The blue colour does show scratches, but we guarantee that they will hold water. They are offered at an excellent price and are nestable for economical shipping. Turn these tanks into an instant system by adding a filtration module. The top mounting filter features multiple chambers and a lid and can turn the tank into a quarantine system, holding system or even a small grow out system. Prices are before \$300.00 crating and inbound freight charges.

		lxwxh	
FT391	Tank, 39 gallons	36" x 24" x 12"	\$207.45
FT811	Tank, 81 gallons	48" x 30"'x 15"	\$528.15
FT1221	Tank, 122 gallons	60" x 30" x 18"	\$678.60
FT2351	Tank, 235 gallons	72" x 36" x 24"	\$1,207.80
FT5231	Tank, 523 gallons	96" x 48" x 30"	\$2,581.50
FFB122	Filter Box for FT122	30"x 8"x 10"	\$137.85
FFB235	Filter Box for FT235	36"x 8"x 10"	\$169.95
FFB523	Filter Box for FT523	48"x 10"x 16"	\$357.60



Custom Fiberglass Tanks

Our fiberglass tanks are rigid, durable, easy to clean and good looking. These high quality tanks are constructed of food grade materials and feature smooth light blue gelcoat interiors and light grey exteriors (custom colours available in quantity). The top lip is reinforced for strength. Fiberglass tanks are often preferred for long term use because of their rigid durability. Please phone or e-mail for pricing and availability on the size best suited to your needs.







877-669-1096

Floating Plant Rafts

These floating plant rafts are made of food grade polyethylene for use in hydroponic and aquaponic systems. The durable design will allow you to use these over and over again. As they are constructed of sealed polyethylene they will not become water logged or sink over time and can be properly clean and even sterilized between uses. All tray are 24" x 48" x 1" thick.

FPR122	12 hole setup, 2" holes	Call for Pricing
FPR182	18 hole setup, 2' holes	Call for Pricing
FPR123	12 hole setup, 3" holes	Call for Pricing

Polyethylene Trays

Trays are all made of food grade polyethylene and can be used for fish or plant culture. The viewing tray listed below has thicker walls and stabilizing pads to allow it to be setup on any flat surface. All measurement are interior and do not include lips around upper edges.

Square and Rectangular Trays						
PD1735T	17" x 35" x 8" Deep	18 gallons	\$155.00			
PD2028T	36" x 36" x 7½" Deep	34 gallons	\$205.00			
PD2061T	36" x 48" x 5½" Deep	34 gallons	\$225.00			
PD2062T	36" x 72" x 5½" Deep	52 gallons	\$275.00			
PD2064T	36" x 96" x 8" Deep	120 gallons	\$320.00			
PD2497T	24" x 96" x 10" Deep	100 gallons	\$318.00			
PD3697T	36" x 96" x 10" Deep	150 gallons	\$340.00			
PD4268T	42" x 66" x 8" Deep	75 gallons	\$225.00			
PD4872T	48" x 72" x 12" Deep	150 gallons	\$320.00			
PD4902T	56" x 105" x 12" Deep Nestable - base of 48" x 96"	235 gallons	\$745.00			
PD5503T	55" x 103" x 30" Deep Nestable - base of 46" x 93"	550 gallons	\$1,280.00			
PD1735T	17" x 35" x 8" Viewing Tray		\$143.90			
Round Trays			6			
RT2407	24" dia. x 7" deep	13 gallons	\$60.00			
RT2707	27" dia. x 7" deep	17 gallons	\$72.00			
RT3105	31" dia. x 5" deep	16 gallons	\$72.00			
RT4108	41" dia x 8" deep	46 gallons	\$137.00			
RT4612	46" dia x 12" deep	86 gallons	\$248.00			



TANKS

Trays & Larval Tanks

Fiberglass Larval Tanks

These rugged, circular fiberglass tanks are ideal for Artemia or rotifer culture, hatcheries and small holding system larval growout. Made of reinforced fiberglass with a smooth, gel coated interior. Flat bottom with vertical sides and a center drain port (E). PVC couplers are molded into the base of the tank to allow varying tank heights. Tank legs over 20" are not recommended.

with bottom sump 6" dia x 3/4" deep

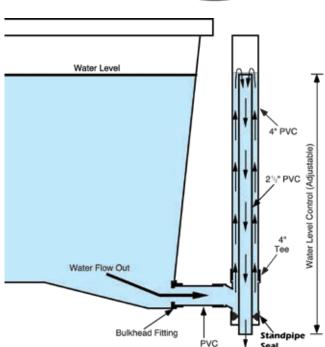
	Liters	Α	В	C	D	E	
FRP60	60	17"	14"	22"	2"	1″	\$472.85
FRP163	163	26"	24"	21¾"	2"	1″	\$744.60
FRP300	300	34¼"	31"	21%"	3″	1½″	\$921.00
FRP500	500	421/2"	38"	21%"	3″	1½″	\$1,142.55



The standpipe seals provide a simple and elegant solution to the timeless question of how to easily vary water levels in a tank while also allowing for rapid drain flushing with ease. Standpipe seals fit within the fitting of the noted pipe size.

	Outside Pipe Size	Actual Standpipe Outside Dia.	
SPS3+	3″	11/2"	\$39.50
SPS4♦	4"	21/2"	\$47.50
SPS6♦	6"	4"	\$70.00





Glass Aquariums

These classic glass aquariums have black trim and corners. Glass allows you an economical choice for tanks and multiple choices for cleaning. These aquariums are for pick up only due to the



ragile material.					
A550	21/2 gallons	12″l x 6″ w x 8″ h	\$29.00		
A552	5½ gallons	16" l x 8"w x 10" h	\$24.90		
A553	10 gallon	20" l x 10" w x 12" h	\$29.00		
A1586	10 gallon Tall	16" l x 8" w x 20" h	\$36.25		
A1587	15 gallons Tall	20" l x 10" w x 16" h	\$58.00		
A554	15 gallons Low	24" l x 12" w x 12" h	\$58.00		
A555	20 gallons Low	30" l x 12" w x 12" h	\$66.70		
A556	20 gallons Tall	24" l x 12" w x 16" h	\$60.90		
A557	23 gallons	36" l x 12" w x 12" h	\$72.50		
A558	30 gallons Low	30" l x 12" w x 18" h	\$116.00		
A1585	30 gallons Tall	24" l x 12" w x 22" h	\$130.50		
A560	35 gallons	36" l x 12" w x 18" h	\$144.30		
A561	40 gallons Low	36" l x 18" w x 15" h	\$181.40		
A566	40 gallons Tall	30" l x 12" w x 22" h	\$128.70		
A563	50 gallons Short	36" l x 18" w x 19" h	\$188.50		
A562	55 gallons Long	48" l x 12" w x 19" h	\$203.00		
A564	75 gallons	48″l x 18″w x 20″h	\$275.50		
A1581	90 gallons	48″l x 18″w x 24″h	\$427.75		
A1582	110 gallon	48" l x 18" w x 30" h	\$645.25		
A1588	112 gallons	60″l x 18″w x 24″h	\$717.75		
A1589	125 gallon	48″l x 24″ w x 24″ h	\$862.75		
A1583	125 gallons Tall	72″l x 18″w x 24″h	\$906.25		
A1590	150 gallon	72″l x 18″ w x 27″ h	\$1,297.75		
A1584	180 gallons	72″l x 24″ w x 24″ h	\$1,442.75		
A1591	220 gallon	72″I x 24″ w x 30″ h	\$2,030.00		

Hauling Tank

The HT6 is a very inexpensive hauling tank. With occasional use, it will last for years. Aeration for up to 2.5 pounds of fish is provided by a 12 V agitator. Holds 10 gallons when full. Can be shipped via UPS. Price includes 12 volt agitator. One year warranty on agitator only.

HT6 \$321.44

Important

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Transport Tanks

These insulated containers are the result of more than three decades of innovative research and development. Now, these double walled containers are ready for the most extreme of weather and usage conditions. Onboard or on the plant floor, these containers are ready for processing, storage and transportation of a wide variety of fish. They are stackable with or without lids. Made with medium density polyethylene, these food approved containers can be rotated and are easy to clean. Design features include a drain hole and a slot for plug storage, and the reinforced based with a center beam allows for versatility in handling. All models include a clip down lid.

		Outside Measurements	Inside Measurements	Full Loaded Weight	
DX310	70 gallons	43¼" x 22½" x 26¼"	35¾"x 19¼"x 24"	550 lbs	\$810.00
DX310F	70 gallons	43¼" x 22½" x 30¼"	35¾" x 19¼" x 24"	550 lbs	\$810.00
DX312	77 gallons	42" x 32" x 26"	34¼"x 28¼"x 19¾"	625 lbs	\$1,110.00
DX318	136 gallons	47½" x 42½" x 27½"	43½"x 38¾"x 19¾"	1100 lbs	\$1,190.00
DX327	187 gallons	47½" x 42" x 33¾"	44" x 39" x 27½"	1500 lbs	\$1,220.00
DX332	235 gallons	47½" x 42" x 38½"	44" x 39" x 30¾"	1750 lbs	\$1,310.00
DX335	268 gallons	47½" x 42" x 46"	44" x 39" x 39¾"	2200 lbs	\$1,340.00
D327	187 gallons	46½" x 41" x 33¾"	44" x 37½" x 27½"	1500 lbs	\$1,220.00
D332	211 gallons	46½" x 41½" x 38½"	44" x 37½" x 30¾"	1750 lbs	\$1,310.00
D335	268 gallons	46½" x 41" x 46"	44" x 38¾" x 39¾"	2200 lbs	\$1,340.00



Live Transport Insulated Container

Whether your valuable fish product is being shipped from the hatchery to the grow out site or to market, the Live Transport Container (DX333) is the smart choice. It is a lightweight, versatile, cost effective solution for transporting live fish. This molded polyethylene, insulated container is built for long term durability providing an R18 insulation factor. The Live Transport Container is designed to make your work easier with quick connect air attachments, sloped base and gate for easy release of fish. The insulated lid, with Neoprene seal, prevents spillage during transportation while its 8" cam lock cap ensures leak proof transportation. Capacity is 268 gallons. Outside measurements are 48" x 42" x 46". Inside measurements are 44" x 39" x 39".

DX333 \$3,640.00

On Board Handling Box

The On Board Handling Box, with its three section lid. It can hold eight 70 liter tote trays or 12 rebox trays and the spill resistant lid also doubles as a work shelf when closed. Three holes allow water to circulate and its durable, seamless construction ensures hygienic handling of seafood products. The sloped base facilitates cleaning and the molded in handles aid maneuverability. Once it's on board, you'll wonder how you ever got along without it. Capacity is 264 gallons. Outside measurements are 72" x 41" x 30". Inside measurements are 68" x 37" x 27".

\$2,560.00



D337

150 •-Standard Stock Item www.FishFarmSupply.ca

877-669-1096

877-669-1096

•-Standard Stock Item

TANKS

Transport Tanks

Brass Valve

A simple brass aquarium valve for use with \3/6" I.D. tubing, % " MNPT.

VBR12♦

Plastic Valves

An inexpensive valve that will not corrode. For use with 3/6" I.D. tubing, 1/8" MNPT.

VPL12-B♦ \$1.64



Brass Valve with Lever Shut-off

Nickel plated brass valve with a lever type shut off and a second connection with a screw out plug. For use with \%" I.D. tubing, \%" MNPT.

\$5.65



Water Valves

This reliable ball valve is made of NSF listed PVC. EPDM O-ring seals, 1/4" FNPT molded threads x 1/4" Jaco, no wetted metal parts.

BV90W♦



For low pressure air and water application.

	rorrabing	
MSK558	¾6" (8 mm) OD	\$3.15
MSK610♦	¼ " (10 mm) OD	\$3.30
MSK714	½" (14 mm) OD	\$3.90
MSK816♦	%" (16 mm) OD	\$3.90



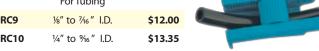
290 \$0.38

tubing, TP30S.

Tubing Flow Valve, Roll Type

RC9 and RC10 are made of polyester that offers permanent rigidity and stiffness even in high humidity areas. Infinite variable flow. Easy one hand operation. No metal parts. Chemical and temperature resistant. No corrosion. Ideal for continuous, long term use for air or water. Autoclavable to 320°F (160°C).

	For Tubing	
C 9	1/8" to 1/16" I.D.	\$12.0



Tubing Flow Valve, Clamp Type

Manufactured of tough plastic without sharp edges. DC9 is an "on/off" valve only. The DC10 and DC11 have a 12 position ratchet control.

	For Tubing		
DC9	Up to ¼ " I.D.	\$0.38	
DC10♦	%" to %" I.D.	\$1.43	
DC11	Up to ¾ " I.D.	\$4.20	



Labcock/Ball Valve

We offer these high quality, quarter turn ball valves at a price well below that of other labcock valves. Rated at 150 psi, NSF approved, PVC body and EPDM O-rings. ¼ " FNPT ports.

BV25**♦** Black \$8.75 BV25W White \$9.45

PVC Saddles

Our straight PVC saddles are easy to install. Just drill a 3/8" hole into 1/2" PVC pipe and secure the saddle in place with PVC glue. Features 1/8" FNPT threads.

VS1♦ \$2.10

Drum Faucet

Here is a very low cost polyethylene valve that can be used in low pressure applications. Two piece construction, ¾" MNPT threads.



Hose Valve

This all plastic hose valve fits ½ " I.D. tubing. Handle turns easily.

70012 \$10.65

Drip Emitter

Drip emitters can be used in most any application. They have an infinite

adjustment up to 2 gph and will screw into a 10 to 32 thread or 3/16" tubing. 42115

\$2.55



Plastic Needle Valve

These needle valves are small gate valves designed for applications where accurate flow is required. Valves have a barb inlet and outlet.

NV14	¼″I.D.	\$19.2
NV38	%"I.D.	\$19.6
NV12	½″I.D.	\$19.6

Spigot Valve

This polyethylene spigot valve is barbed to accept % " I.D. flexible

/1+	½ "MPT	\$19.8
/2	3/4 "MPT	\$23.1



Important

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Ozone Safe Check Valves

These clear, duckbill check valves work great for preventing water from back siphoning into ozone generators. Cracking pressure is 21/2" H₂O.

CKV55♦ %" to ¾6" Tubing \$16.95 CKV60 1/4" Tubing \$18.90

Aguarium Check Valve

This high quality, duckbill check valve will prevent back siphoning through tubing when power is off. It's the perfect choice for aquarium systems or anywhere that 5/32" or 3/6" I.D. tubing is used. Resistance at 0.07 cfm is only 3" H₂O. Sold individually.

ACV1C♦ \$4.40

Check Valves

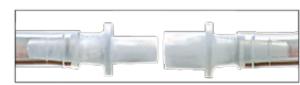
Quick and positive action in any position. Polypropylene valve is highly resistant to chemicals and temperatures up to 100°C (212°F). Use for any pressure or vacuum system. 228225 has an overall length 21/2 ". 228215 has an overall length 2¾ ".

228225♦	8 to 10 mm (1/4" to 3/8" I.D.)	\$6.15
228215♦	11 to 15 mm (%6" to % "I.D.).	\$7.95

Airline Quick Disconnects

Polyethylene quick disconnects can be used in low pressure air applications. Using these reduces stress of the constant removal of airline from valves and fittings.

D727	1/8" to 7/32"	\$4.45
D729	¼" to ¾"	\$5.45
D731	½" to 5%"	\$6.75



Air Purge Valve

This brass valve has an internal float that closes the valve when filled with water. Use it to automatically purge air from a water tank, pipe system, oxygen saturator, etc. Mount it vertically wherever air collects. Also works as a vacuum breaker. ¼" MPT. ¼" poly plug included. 3" OAL.

\$25.35



high points in an aquaculture pressurized water system where air accumulates. Water pressure automatically forces air out, and when water reaches the valve, the internal float creates a watertight seal. The valve must be mounted vertically. It seals effectively at pressures from 2 to 100 psi. Under suction, the valve draws in air, functioning as a vacuum

1" FNPT threads and rates (cfm) are 60 at 12.5 psi, 100 at 25 psi and 180 at 50 psi.

ST5

breaker. The valve has

measures 51/4" h x 2" in diameter. Air discharge



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PVC Swing Check Valve

Use where minimal head loss is important. They are non-metallic and use no springs in the swing style. Poppet style will give you a tighter seal but use a spring system. Rated to 100 psi. Mount horizontally or vertically. Full flow design. Buna-N seal and hinge, slip by slip. Not recommended for use with air. For Poppet style add P to the end

PLUMBING

Check Valves & Purge Valves

of the part number.

or the part	number.			
		Swing Style	Poppet Style	
CV9♦	3/4 "	\$22.90	\$6.20	
CV10♦	1″	\$24.90	\$9.10	
CV11♦	1 ¼ ″	\$25.20	\$12.00	
CV12♦	1 ½ ″	\$26.25	\$12.50	
CV13♦	2"	\$40.80	\$15.10	
CV14	3″	\$76.95		
CV15	4"	\$100.95		

Clear PVC Check Valves

For use in fresh or saltwater with a minimum of head loss, these PVC swing check valves are identical to our white PVC swing check valves, only clear. They are completely non-metallic and use no springs. They're pressure rated up to 100 psi and mount both horizontally and vertically. They have a full flow design with a Buna-N seal and hinge (slip by slip). Not recommended for use with air.

CCV12	1 ½ ″	\$33.15
CCV13	2"	\$52.05
CCV14	3″	\$81.00
CCV15	4"	\$115.95

Non-Metallic Check Valves

These polymer check valves have no springs. Use for fresh water, saltwater or air. Make excellent foot valves with low pressure loss.

CV1♦	¾" FNPT	\$7.30
CV2	1"FNPT	\$8.20
CV3♦	1 ¼ "FNPT	\$10.35
CV4♦	1 ½ "FNPT	\$15.00
CV5	2" FNPT	\$22.55



Accessible Check Valve

Our 3" and 4" swing check valve has open screw on lid allows access to the flapper. It is made of PVC and can be opened for cleaning, 6' max head.

OCV2 \$116.00 OCV3+ 3" \$113.80 OCV4+ \$126.10



+-Standard Stock Item

•-Standard Stock Item

Economy PVC Ball Valves

SBW12♦ ½" Ball valve

Here is a low cost, yet heavy duty Schedule 80 ball valve. It has EPDM seats and seals, rated at 150 psi, with a full port flow opening. Imported. Slip x Slip. (Add "T" for FNPT both ends).

\$2,10

SBW13◆ ¾" Ball valve \$3.15 SBW14◆ 1" Ball valve \$4.90 SBW15◆ 1¼" Ball valve \$6.80 SBW16◆ 1½" Ball valve \$8.65 SBW17◆ 2" Ball valve \$13.75 SBW18 3" Ball valve \$51.75 SBW19 4" Ball valve \$97.80
SBW15◆ 1¼" Ball valve \$6.80 SBW16◆ 1½" Ball valve \$8.65 SBW17◆ 2" Ball valve \$13.75 SBW18 3" Ball valve \$51.75
SBW16◆ 1½" Ball valve \$8.65 SBW17◆ 2" Ball valve \$13.75 SBW18 3" Ball valve \$51.75
SBW17◆ 2" Ball valve \$13.75 SBW18 3" Ball valve \$51.75
SBW18 3" Ball valve \$51.75
SBW19 4" Ball valve \$97.80

Ş:	51.75	
\$9	97.80	

True Union Ball Valves

These high quality valves are available at low prices. They feature Teflon® seats that provide easier turning, better sealing and longer valve life. Schedule 80 PVC with EPDM O-rings rated at 150 psi at 72°F. Slip unions are included for all valves. Imported.

	•	
TB12	1/2" True Union Ball Valve	\$13.15
TB34	3/4" True Union Ball Valve	\$17.75
TB1	1" True Union Ball Valve	\$24.65
TB114	1¼" True Union Ball Valve	\$36.35
TB112	1½" True Union Ball Valve	\$48.40
TB2	2" True Union Ball Valve	\$66.70
TB3	3" True Union Ball Valve	\$125.20
TB4	4" True Union Ball Valve	\$420.15

Valved Y Distributor

SPLITOAS2*

A flow-optimized Y-Distributor for distributing the flow from one pump to multiple water outlets. Flow distribution can be individually regulated which is important for applications with region specific demands. Comes with adapters for non-kink tubing up to 2" that swivel to optimize your connection angles. Max flow rate of 6,000 gph. Dimensions 71/2" x 41/2" x 5".

\$55.00



Small Valve Manifolds

These 1/2" PVC air manifolds are made with your choice of valves. The air supply inlet is a 1/2" FNPT with 1/4" barb (62014) outlet valves are 3/6" barb. Each manifold includes two ½" Clic™ fittings for mounting to a flat surface.

	# of Valves	Valve Type	Overall Length	
VMP4-B	4	Plastic (VPL12B)	11"	\$46.50
VMB4	4	Brass (VBR1)	11"	\$51.90
VMP6-B	6	Plastic (VPL12B)	13″	\$48.00
VMB6	6	Brass (VBR1)	13″	\$55.95
VMP8-B	8	Plastic (VPL12B)	15"	\$90.30
VMB8	8	Brass (VBR1)	15"	\$100.65



Labcock Valve Manifolds

Our valve manifolds will save you time and aggravation. They are made with quarter turn valves (BV25). The manifold ports are ½" FNPT and a 1/2" FNPT plug is included.

Each outlet valve is 1/4" FNPT. Each valve will pass 0.5 gpm with less than 1 psi pressure loss. They also make excellent manifolds for air distribution. The 1/2" threaded plug may be removed for another connection.

MV2	2 valve (8¼" long)	\$39.00
MV3	3 valve (10½" long)	\$45.30
MV4	4 valve (13%" long)	\$56.25
MV5	5 valve (15¼" long)	\$71.40
MV6	6 valve (151/4" long)	\$82.50



Globe Valve Manifolds

These PVC globe valves are glued together as manifolds to save time. Each outlet valve will pass 2 apm with less than 1 psi pressure loss. The valves have ½" FNPT outlets. The manifold ports are ½" FNPT and a threaded plug is included.

PV2	2 valve (7½" long)	\$41.25
PV3	3 valve (10½" long)	\$63.75
PV4	4 valve (13%" long)	\$72.45
PV5	5 valve (16%" long)	\$88.35
PV6	6 valve (20" long)	\$99.15



PVC Gate Valves

order threaded ends.

They are as useful as their bronze counterparts and they get the job done at a fraction of the cost. Gate valves are best suited to full open or full closed operation. Do not freeze. NSF approved, 150 psi maximum working pressure, full flow opening. Available in both slip and FNPT. Add a "T" to the end of the part number to

WGV12	1/2"	\$20.40
WGV34	3/4"	\$25.20
WGV1	1"	\$31.50
WGV112	11/2"	\$51.90
WGV2	2"	\$61.35

Gate Valve Replacement Parts

These replacement seals are made of Santoprene[™] and are sold as single seals only for the valves, two are required for each valve. Replacement valve handles are metal.

GV1003-6M♦	Metal Handle, 11/2" to 4"	\$4.80
GVS1.5♦	1½" Seal Only (1)	\$3.10
GVS2♦	2" Seal Only (1)	\$3.77
GVS3♦	3" Seal Only (1)	\$4.60
GVS4+	4" Seal Only (1)	\$6.46
GVS6♦	6" Seal Only (1)	\$61.20
GVS8	8" Seal Only (1)	\$71.05

Large Orifice Solenoids

For a high volume of air or water, a large orifice is needed. These solenoid valves are servo-assisted to open and close orifices up to 1". Rated to 140 psi. These valves require no differential pressure. Brass body. Orifice sizes same as in/out sizes. 115 V, 60 Hz, normally closed only. Normally open valves available by special order. NEMA 4.

817NC	1/2 "	\$314.40
818NC	1"	\$520.95



Knife Gate Valves, 11/2" to 8"

Knife gate valves are economical, quick acting valves for low pressure applications. They can be easily taken apart and the seals can be changed, even the valve body can be changed, without upsetting the ends that may be glued to your pipes. They offer unrestricted flow and are quick opening, 100 percent water tested at the factory and quite low in cost.



PLUMBING

Gate Valves & Solenoids

These 11/2" to 12" valves are all PVC with stainless steel shafts, polypropylene knife gates (except where Stainless Steel (SS) is stated), and have Santoprene[™] seals. The valves listed are all slip by slip unless otherwise noted. Like most valves, they are not for use in freezing weather. One year warranty.

		PSI	
GV1.5♦	1½ " Gate Valve, PVC	45	\$16.50
GV1.5ABS♦	1½" Gate Valve, ABS	45	\$16.50
GV1.5T♦	1½" Gate Valve, FPT X FPT, PVC	45	\$17.00
GV1.5ABST♦	1½" Gate Valve, FPT X FPT, ABS	45	\$17.00
GV1.5SLIPXMPT♦	1½" Gate Valve, MPT X Slip, ABS	45	\$14.00
GV2♦	2" Gate Valve, PVC	40	\$26.00
GV2ABS♦	2" Gate Valve, ABS	40	\$26.00
GV2SS♦	2" Gate Valve, PVC, SS Paddle	40	\$38.00
GV2T♦	2" Gate Valve, FPT X FPT, PVC	40	\$28.00
GV2ABST♦	2" Gate Valve, FPT X FPT, ABS	40	\$28.00
GV3♦	3" Gate Valve, PVC	20	\$31.00
GV3ABS ♦	3" Gate Valve, ABS	20	\$31.00
GV3SS+	3" Gate Valve, PVC, SS Paddle	20	\$48.80
GV4SXS*	4" Gate Valve, PVC, SS Paddle	18	\$114.75
GV6♦	6" Gate Valve, PVC, SS Paddle	18	\$469.00
GV8	8" Gate Valve, PVC, SS Paddle	18	\$658.00
GV10	10" Gate Valve, PVC, SS Paddle	10	\$1,162.00
GV12♦	12" Gate Valve, PVC, SS Paddle	10	\$1,221.00



1/4" NPT in/out ports, 0 to 140 psi range, Viton® seal material and 1/2" NPT conduit connection. 115 V, 60 Hz only. 17 V A (hold), 24 V A (inrush). NEMA 4. Normally Closed \$223.50









•-Standard Stock Item

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•-Standard Stock Item

Mechanical Float Valves

100 psi maximum pressure. Floats are black polypropylene, except RM262P, RM214, which are white. OAL is overall length with float.

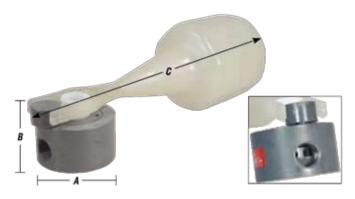
	Material	OAL	Inlet	Outlet	35 psi	
RM262P	Stainless	10"	1/4 "MNPT	Free Flow	1.3 gpm	\$95.70
RM214	Brass	10"	1/2 "MNPT	3/8 "	3.0 gpm	\$27.75
R7002F	Brass	20"	1/2 "MNPT	1/2 "	12 gpm	\$100.00
R7003♦	Brass	20"	¾″MNPT	3/4 "	21 gpm	\$28.75
R610	Brass	28"	1 ½ "FNPT	Free Flow	112 gpm	\$211.80



Industrial Size Float Valves

These large orifice PVC and polypropylene valves with EPDM O-rings are saltwater compatible. Maximum operating pressure is 80 psi.

		A	D	_	
541205	½"FNPT	3"	41/4"	12"	\$315.00
541207	3/4" FNPT	31/2"	5"	12"	\$441.00
541210	1" FNPT	31/2"	5"	13½"	\$544.00



ABS Float Valve

Great for R/O systems. This mechanical float valve is made entirely of ABS plastic, compatible with saltwater applications. It measures 81/4" long, has a 1/4" MPT inlet and a free flow outlet. Flow at 30 psi is one gpm; maximum 90 psi.



Float Valve

Made of plastic for use with clean water only (do not use recirculated water). Mount it to a water supply line at the desired water level. When that level is reached, the valve shuts off. It will maintain the level precisely at ±1/4"!

Flow is 4 gpm at 30 psi. Operating range is 10 to 120 psi. 1" FNPT inlet.

\$63.85



Garden Hose Accessories

3150♦	Plastic Y Connector with Shut Off	\$5.40
3194♦	Plastic Hose End Cap, 2 pack	\$1.05
3110	Plastic Hose Shut Off	\$3.15



Garden Hose Adapters

These natural nylon adapters convert garden hose thread style (GHT) to standard national pipe thread style (NPT) or to barb fittings. Part numbers with "A" are 1/2" NPT; "B" are 3/4" NPT.

GH2 (A or B)♦	Male GHT x Male NPT	\$2.00
GH3 (A or B)♦	Female GHT x Male NPT	\$2.25
GH4 (A or B)♦	Male GHT x Female NPT	\$2.30
GH5♦	Male GHT x 1/4" Barb	\$1.80
GH5♦ GH6♦	Male GHT x 1/4" Barb Male GHT x 3/4" Barb	\$1.80 \$1.80
		•







Flexogen® Hose

Flexogen® hose has long set the standard for quality in garden hoses. It offers the ultimate in quality and value. Heavy duty, 6 ply hose with machined brass couplings. Kink and pressure twist resistant. Coils easily in all kinds of weather. Protective



collar resists kinks at faucet. Two year warranty.

		,	,
110050	50' roll	\$61.34	
l10100	100'roll	\$115.95	
			Gilmour FLEXOGEN The Last Have For The Boy The Control of the Con

Uniseals®

Why use an expensive bulkhead when you can use a Uniseal®? Just drill a hole in the pipe, tank or bucket, insert a Uniseal®, then put some Windex® on the end of the pipe and push it in. It's that easy! Feels like rubber,

but they are made of Alcryn® rated to 40 psi and warranted for 25 years. They are immune to cold, will not harden and hold pressure and vacuum. The sizes below correspond to standard Schedule 40 PVC pipe. Fit tank wall thicknesses up to ½".



TANK WALL PUSH PIPE \$6.38 FROM THIS SIDE

Tee Eliminators

Here is a hard to find, cost saving fitting. A PVC 3" x 3/4" reducing tee can be very costly. These tee eliminators can do the same thing for much less! Just drill a hole,

press in a tee eliminator, then thread in the connection. Made of flexible PVC with female pipe threads. They work in all rigid pipe materials with pipe walls between 1/8" and 1/4" thick.



	FPT Size	Min. Pipe I.D.	Hole Size	
FC32♦	1/2 "	1″	1"	\$1.13
FC34♦	3/4 "	1 1/4 "	1 3/16 "	\$1.35
FC36♦	1"	1 ½ ″	1 1/16" to 1 1/2"	\$1.65

www.FishFarmSupply.ca

Low Profile Strainer

These low profile strainers will fit directly into a bulkhead fitting. This will allow the strainer to fit in tight spaces and blend in

4408	1/2 " MNPT	\$4.4
4409	½" Spig	\$4.4
4410	3/4" MNPT	\$4.8
4411	¾" Spig	\$4.8
4412	1" MNPT	\$6.20
4413	1" Spig	\$6.20
4440	1½" MNPT	\$7.00
4441	1½" Spig	\$7.00
4442	2" MNPT	\$7.7
4443	2" Spig	\$7.7





Tank Fitting Kits

An inlet strainer and elbow are included with these bulkhead kits. The inlet and outlet fits standard PVC pipe, so you can make many variations of your own. Bulkheads are also available separately. The kit includes bulkhead, 90° elbow and inlet screen, which fits both sides of the bulkhead. These are black in colour.

		Size	Thickness	
TFK1♦	Bulkhead Kit, 1/2 "	1 % "	3/4 "	\$8.95
TFK2♦	Bulkhead Kit, ¾"	1 3/8 "	1 ¼ ″	\$9.90
TFK3♦	Bulkhead Kit, 1"	1 3/4 "	2"	\$10.85







PLUMBING

Saddles, Uniseals, Tee Eliminators & Strainers

High Density Polyethylene Strainers

Made from high density polyethylene with large surface area.

	FNPT	Opening	
TSS20	1 ½″	1/4" x 1"	\$12.00
TSS25	2″	1/4" x 1"	\$12.00
TSS35	3″	½″ x 1½″	\$27.60



Threaded Suction/Overflow Strainers

Plastic strainers with slots that are approximately $\frac{1}{8}$ " wide in all sizes.

	Fitting	Overall Length	
270554	1/2 " MNPT	21/2 "	\$4.00
270565 ♦	½" Spig	2½″	\$1.85
270556	3/4" MNPT	2 1/16 "	\$4.30
270599 ♦	¾″ Spig	2 1/16 "	\$2.25
175251	1" MNPT	213/16"	\$6.00
270570 ♦	1" Spig	213/16"	\$2.30
270557 ♦	1½" MNPT	3%"	\$7.75
270581+	1½" Spig	3%″	\$3.85
270561+	2" MNPT	3%"	\$9.65
270582	2" Spig	3%"	\$4.60

Strainers

Strainers fit check valves CV1 to CV4 and can be used for many other applications. Made of DuPont Delrin™. Overall length includes threads. Strainer slots are approximately 1/8" wide on all sizes.

MNPT	Overall Length	
3/4"	2 3/4"	\$2.10
1″	3″	\$2.55
11/4"	3¼″	\$2.70
1½″	4"	\$3.30
	1"	3¼" 2 ¾" 1" 3" 1¼" 3¼"





Insert Bulkhead Fitting

Custom installations are easier and safer with all parts included in convenient kits. Heavy wall bulkhead is molded of highest impact resistant PVC eliminating possibility of finding hidden cracks when filling aquarium.

	Size	In/ Out	
BKF81	1/2 "	Slip/Barb	\$9.16
BKF82	1/2 "	FIPT/Barb	\$9.16
BKF83	3/4 "	Slip/Barb	\$10.85
BKF84	3/4 "	FIPT/Barb	\$10.85
BKF85	1″	Slip/Barb	\$11.10
BKF86	1"	FIPT/Barb	\$11.10



Top Quality Bulkhead Fittings

These are our highest quality PVC tank adapters. Select either slip or female pipe thread. Price includes one FPDM gasket.

thread. Price includes one EPDINI gasket.						
	Size	In/Out	Hole Size	Max Tank Thickness	Gasket	
35012L	1/2 "	FIPT/FIPT	1 3/8"	1″	GK1	\$25.95
35034L	3/4 "	FIPT/FIPT	1 %"	1″	GK2	\$32.70
35100L	1″	FIPT/FIPT	1 %"	1″	GK3	\$34.65
35112L	1 ½ ″	FIPT/FIPT	2 3/8 "	1"	GK4	\$51.60
35200L	2″	FIPT/FIPT	3 1/4"	1"	GK5	\$66.75
35300L	3"	FIPT/FIPT	4 1/2"	1"	GK6	\$118.35
35400L	4"	FIPT/FIPT	5 ¾"	1 ¾ ″	GK7	\$219.45
36012L	1/2 "	Slip/FIPT	1 ¾"	1″	GK1	\$22.65
36034L	3/4 "	Slip/FIPT	1 %"	1″	GK2	\$25.05
36100L	1″	Slip/FIPT	1 %"	1″	GK3	\$27.60
36114L	1 1/4 "	Slip/FIPT	2 3/8"	1"	GK4	\$36.75
36112L	1½″	Slip/FIPT	2 %"	1″	GK4	\$36.75
36200L	2″	Slip/FIPT	3 1/4"	1″	GK5	\$54.30
36300L	3"	Slip/FIPT	4 1/2"	1"	GK6	\$106.95
36400L	4"	Slip/FIPT	5 3/4"	1 3/4 "	GK7	\$196.65

Polypropylene Bulkhead Fittings

These female threaded bulkhead fittings are great for most bulkhead applications. Made of polypropylene, they are similar to, but softer than, the PVC bulkhead fittings. Price includes one EPDM gasket.

	_				THE RESERVE	
	Size	In/Out	Hole Size	Max Tank Thickness	Gasket	
TF1♦	1/2 "	FIPT/FIPT	1 3/4 "	3/8 "	GK2	\$7.99
TF2♦	3/4 "	FIPT/FIPT	1 ¾ ″	1/2 "	GK2	\$8.57
TF3♦	1″	FIPT/FIPT	2"	1/2 "	GK3	\$9.45
TF4♦	1 ¼ ″	FIPT/FIPT	2 %6 "	1/2 "	GK4	\$11.25
TF5♦	1 ½ ″	FIPT/FIPT	2 %6 "	1/2 "	GK4	\$12.00
TF6◆	2"	FIPT/FIPT	3 ¼ ″	3/4 "	GK5	\$14.30
TF7♦	3″	FIPT/FIPT	4 ½ ″	1"	GK6	\$24.00

Bulkheads

Heavy wall bulkhead is molded of highest impact resistant PVC eliminating possibility of finding hidden cracks when filling aquarium. Black. One gasket included.

gasket included.						
	Size	In/Out	Hole Size	Max Tank Thickness	Gasket	
BKF121	1/2 "	Slip/Slip	11/4 "	3/4 "	GK0	\$5.80
BKF122	1/2 "	Slip/FIPT	11/4 "	3/4 "	GK0	\$5.80
BKF2♦	1/2 "	FIPT/Slip	11/4"	3/4 "	GK0	\$5.80
BKF1	1/2 "	FIPT/FIPT	11⁄4″	3/4 "	GK0	\$5.80
BKF341	3/4 "	Slip/Slip	1½″	1″	GK1A	\$6.80
BKF342	3/4 "	Slip/FIPT	1½″	1"	GK1A	\$6.80
BKF343	3/4 "	FIPT/Slip	1½″	1"	GK1A	\$6.80
BKF3♦	3/4 "	FIPT/FIPT	1½″	1″	GK1A	\$6.80
BKF10	1″	Slip/Slip	1¾″	1½″	GK2A	\$7.60
BKF11	1″	Slip/FIPT	1¾″	1½″	GK2A	\$7.60
BKF4♦	1"	FIPT/Slip	1¾″	1½″	GK2A	\$7.60
BFK5	1″	FIPT/FIPT	1¾″	1½″	GK2A	\$7.60
BKF1120	1 ½″	Slip/Slip	2½″	1 ¾"	GK4A	\$9.70
BKF1121	1 ½ ″	Slip/FIPT	2½″	1 ¾"	GK4A	\$9.70
BKF6♦	1 ½ ″	FIPT/Slip	2½″	1 ¾"	GK4A	\$9.70
BKF1123	1 ½″	FIPT/FIPT	2½″	1 ¾"	GK4A	\$9.70
BKF20	2"	Slip/Slip	3"	1 3/4"	GK5A	\$11.60
BKF21	2"	Slip/FIPT	3"	1 ¾"	GK5A	\$11.60
BKF7♦	2"	FIPT/Slip	3 "	1 3/4"	GK5A	\$11.60
BKF23	2"	FIPT/FIPT	3"	1 ¾"	GK5A	\$11.60

Replacement Gasket For Bulkheads

These are replacement gasket for bulkhead fittings. Please see the bulkhead listing for the size that you require.

	Approx. Inside Dia.			Approx. Inside Dia.	
GK0	1 1/4"	\$0.81	GK4♦	2 3/8"	\$2.03
GK1	1 3⁄8″	\$2.96	GK4A	2 1/2"	\$1.40
GK1A	1 ½"	\$0.88	GK5♦	3 1⁄4"	\$2.75
GK2♦	1 %"	\$1.79	GK5A	3"	\$1.60
GK2A	1 ¾"	\$1.00	GK6◆	4 ½ ″	\$4.69
GK3♦	1 % "	\$2.10	GK7♦	5 ¾ ″	\$7.95

Pipe Hangers

On the floor, wall or overhead, these neat plastic hangers will make the job go fast and look great when it's done. After all the hangers are attached, push pipe into the open jaws, and a sharp "click" signals that it is locked in place. They also release easily. Meets UPC® (Uniform Plumbing Code) specifications. Sizes below fit PVC, CPVC, ABS, PE, PP, PB and fiberglass pipe nominal sizes. Temperature range: -40 to 180°F. Reusable. Screw or bolt not included.

CP4	1/2 "	¢1 E0
CP4	72	\$1.50
CP6	3/4 "	\$2.25
CP7	1″	\$3.00
CP8	1 ¼ ″	\$4.20
CP9	1 ½ ″	\$5.40
CP10	2″	\$6.75
CP11	2 ½ ″	\$10.05
CP12	3″	\$14.85
CP13	4"	\$26.55

Pipe Supports

These inexpensive pipe clamps are ideal for floor and wall mounting but not for overhead mounting of water pipes. They fit standard PVC pipe. A single screw (not included) mounts each pipe support.

CP14	Black, 1½"	\$2.10
CP15	White, 2"	\$2.55

Round Manifolds

We make these solid PVC manifolds for use as top inlet air diffuser manifolds, but you'll find many other applications for them. The center port is 3/4" NPT. The side holes are ½"NPT and have %" diameter flow restrictions that can be easily drilled as needed for higher flow applications.

M6B	6 Side Holes	\$77.55
M08	8 Side Holes	\$39.45

Pipe Cutter

Professional PVC pipe cutters are designed for quick, clean cuts of PVC, polyethylene pipe and hose. The hooked jaw holds pipe in cutting position. Blades are made of a special alloy steel. Blades, ratchet and spring have a rust-resistant finish.

nave a rase re	.SIStarre III IISI II	
PC0112♦	%"-1 ¼" Pipe	\$25.00
PC0112B	Repl. Blade for PC0112	\$11.70
PC0200	up to 2" Pipe	\$82.95
PC0200B	Repl. Blade for PC0200	\$24.90
PC0200		PC0112

Well Points

Well points only (fit Schedule 40 pipe also)!

Well screens and well points are used for de-watering applications and as filter screens in lakes, ponds and culture systems. Constructed of Schedule 40 PVC pipe with thermoplastic points. Precision slots of 0.04" for lake, pond and culture system screening and 0.01" for well usage are typically recommended. All screens are 5' over all length.

PLUMBING

Quick Disconnect Fittings

/ /			
Well Points Only	Pipe Size		
WP125	1 ¼ ″		\$2.85
WP150	1 ½″		\$3.60
WP200	2″		\$5.10
0.01" Screens	Pipe Size	gpm/ft	
WS1001♦	1"	0.65	\$15.00
WS1251	1 ¼ ″	0.7	\$23.85
WS1501	1 ½″	0.8	\$58.10
WS2001	2″	1.3	\$32.40
0.04" Screens	Pipe Size	gpm/ft	
WS1004♦	1"	2.0	\$18.00
WS1504	1 ½″	3.0	\$32.10
WS2004	2″	4.0	\$33.30
14/52004	3″	4.6	\$58.50
WS3004	3	1.0	,
WS4004	4"	6.9	\$73.50

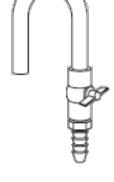




U-Tube

This U-tube includes a 1" ball valve with a 1" hose barb on one end. The other end is simply 1" pipe that can be connected to a strainer or used as is. It fits easily over the edge of an aquarium, tank or pail.

R1719	\$33.0



Thread Cutting Taps

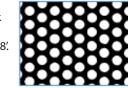
These taps will cut pipe threads (FNPT) in PVC, mild steel, etc. Use with bits shown below to save the cost of tees, saddles and adapters.

BNT1	Tap [,] 1/8" NPT	\$11.60
BNT2	Tap₁¼″ NPT	\$12.24
BNT3♦	Tap₁¾″ NPT	\$16.00
BNT4	Tap₁½″ NPT	\$24.32
BNT5♦	Tap₁¾″ NPT	\$35.68

Perforated PVC Sheets

Perforated PVC has many uses, including tank lids and drain covers. These 1/8" thick sheets come in two perforation sizes. Sheets are 4'x 8'.

PERF125♦ %"Holes \$138.00 \$147.75 PERF250♦ 1/4"Holes



Bottom Drains

Aquadyne Rhino Bottom Drains are machine manufactured from schedule 80 PVC materials, with NO injection molding. All Rhino drains can be installed with extreme confidence in any application by first time installers or experienced professionals. Rhino drains are installed in aquatic environments from ponds, water features, public aquariums, zoos, hatcheries, research facilities, aquaponics and quarantine systems. A bottom drain is one of the most important parts of a water installation, in that it's integrity is paramount to the success of the entire project. One year warranty.

- Thicker flanges and liner attachment ring that will not flex, distort or
- All attachments are precision machine fitted for extra strength with no
- Thermally welded joints provide extreme durability in the most demanding environments.
- No injection molded components which would weaken the structure. RHINO I - Inline vertical drains with 12" anti-vortexing cover.

RHINO RETRO - Over the liner, no cut, retrofit drains for environments without bottom drains, or for those who do not want to install a through the liner drain.

RHINO OFS – Threaded for an overflow standpipe or a side wall return. RHINO II - Heavy duty commercial drain with air diffuser and 4" return.

	,	
RHINO I		
BDRH12	2" Bottom Drain	\$126.40
BDRH13	3" Bottom Drain	\$126.40
BDRH14	4" Bottom Drain	\$134.40
RHINO RETRO		
BDRTO2	2" Retro Drain	\$142.40
BDRTO3	3" Retro Drain	\$158.40
RHINO OFS		
BDOFS2	2" Overflow Drain	\$142.40
BDOFS3	3" Overflow Drain	\$158.40
BDOFS4	4" Overflow Drain	\$206.40
RHINO II		
BDRH2A	4" Drain with Air Diffuser	\$574.40
BDRH2O	4" Drain without Air Diffuser	\$494.40





Perforated Rigid Tubing

Made from high density polyethylene, these perforated screen tubes are great for fitting over standpipes, 3/6" (4 mm) openings. These can be adapted to make a bottom drain into an existing pond or for pump intakes. Sold in 44" lengths; fit nicely over Schedule 40 PVC.

RT144♦	Perforated Rigid Tubing, 1"	\$15.45
RT244♦	Perforated Rigid Tubing, 2"	\$30.15
RT344♦	Perforated Rigid Tubing, 3"	\$34.95
RT444♦	Perforated Rigid Tubing, 4"	\$40.50



White PVC Pipe

White Schedule 40 PVC is a standard building material for many food grade systems. It is safe for aquaculture and aquaponics. Although more expensive then sewer pipe it is safe for fish and plants while having a much wider variety of fitting available (see page 168). Sold by the foot, 10' length maximum. Cutting charge is \$1.50 per cut.

	Pipe Size	Max PSI			Pipe Size	Max PSI	
PVC12♦	1/2 "	300	\$1.08	PVC112♦	1 ½ ″	170	\$2.43
PVC34♦	3/4 "	240	\$1.31	PVC2♦	2″	140	\$4.07
PVC1♦	1″	220	\$1.77	PVC3	3″	130	\$7.84
PVC114▲	1 1/4 "	180	\$1.90	PVC4	Δ"	110	\$10.30

Grey Non-Kink Tubing UL

Unlike so many non-kink tubing on the market this tubing is actually manufactured in inches. This means that it is easy to use with the widely available UL barb fittings for simpler installation.

			Per Foot Price	Roll Price
PT804	1/2"	50'roll	\$1.99	\$89.55
PT806 ♦	³ / ₄ "	50'roll	\$2.39	\$107.55
PT807 ♦	1″	50'roll	\$2.54	\$114.30
PT808 ♦	1 1/4 "	50'roll	\$3.90	\$175.50
PT809 ♦	1 1/2 "	50'roll	\$4.25	\$191.25
PT810 ♦	2″	50'roll	\$7.25	\$326.25



Flexible PVC Pipe

This flexible Schedule 40 PVC pipe permits compound curves, greatly reducing the number of fittings otherwise required. It also reduces friction loss caused by elbows. Standard Schedule 40 or 80 PVC fittings can be used. A special solvent cement (PVCGF) is required (do not use pipe primer). Sold in full rolls or by the foot. (Add "R" to the end of the part number to order full rolls.)

		Working PSI at 70°F	Bend Radius	Roll Length	Per Foot Price	Roll Price
	BLACK					
BFPP1	1″	100	4"	50′	\$3.10	\$100.00
BFPP114	1 1/4 "	80	4"	50′	\$4.40	\$154.00
BFPP112	1 ½ ″	65	4"	50′	\$3.90	\$135.00
BFPP2	2″	60	5″	50′	\$5.50	\$195.00
	WHITE					
FPP12	1/2 "	100	3"	100′	\$2.20	\$130.00
FPP34♦	3/4 "	100	3″	100′	\$2.30	\$160.00
FPP1♦	1″	100	4"	50′	\$2.80	\$90.00
FPP114♦	1 ¼ ″	80	4"	50′	\$4.00	\$140.00
FPP112♦	1 ½ ″	65	4"	50′	\$3.70	\$130.00
FPP2♦	2″	60	5"	50′	\$5.40	\$195.00

Clear PVC Pipe

If you need to see what is going on inside your pipes, this clear (slight blue tint) PVC pipe is the answer. Use economical short lengths to see the degree of microbial growth inside the piping or build entire clear systems for research, prototypes, oxygen saturators, etc.

This clear PVC pipe is FDA approved for food contact applications. May be cold sterilized in ethylene oxide. It is fully compatible with regular Schedule 40 PVC pipe fittings. Install with regular PVC

cement. Use compression couplings, flexible couplings or unions to facilitate cleaning. Sold by the foot, 10' length maximum. Cutting charge is \$1.50 per cut.

			, ,	. '			
	Pipe Size	Max PSI			Pipe Size	Max PSI	
C100	1/2 "	300	\$4.80	C105	2"	140	\$16.80
C101	3/4 "	240	\$6.00	C106	3″	130	\$37.20
C102	1″	220	\$7.50	C107	4"	110	\$52.20
C103	1 1/4 "	180	\$11.70	C108	6"	45	\$92.00
C104	1 1/2 "	170	\$13.35				

Rigid Clear Tubing

Rigid tubing is ideal for microalgae and zooplankton culture tanks where aeration is required at the bottom of the tank. This is a thin wall (only 0.020" to 0.030" thick), rigid, "straw like" tube. Sold in 36"

lengths. To extend length, use a piece of vinyl tubing as a coupler.

	O.D.	Length	Fits Tubing	
16005	³ / ₁₆ "	36"	TV30-HD	\$4.40
16010	5/16 "	36"	TV40	\$4.56
16015	3/8 "	36"	TV60	\$4.72
16025	1/2 "	36"	TV70	\$6.16
16035	5/8 "	36"	TV80	\$8.48
16040	3/4 "	36"	TV90	\$10.64
16045	1"	36"	TV100	\$11.44
16050	1 1/8 "	36"	TV125	\$12.32

Acrylic Tubing

"Do it yourself" fish farmers are very inventive, but finding the right materials can sometimes be next to impossible. Acrylic tubing, at an affordable price, is one of those handy, but hard to find, materials

This extruded acrylic tubing has only a \%" (3.2 mm) thick wall and is much clearer and lighter than our clear PVC pipe. Standard PVC cement can be used to bond acrylic tubing to PVC for most low pressure applications. TAGL is a light bodied; allow 24 hours to cure fully. For high pressure bonds, use WO40, a 2 part heavy bodied cement for bonding acrylic to itself, ABS or PVC.

Sold and priced by the foot, plus a cutting charge of \$2 per cut.

TAGL	Acrylic Cement		\$13.20
TA5	4 ½ ″ O.D.	4"	\$22.80
TA4	3 ½ ″ O.D.	3"	\$15.30
TA3	2"O.D.	n/a	\$8.10
	Approx Size	Fits PVC Socket	Per Foot

Flexible Suction Hose

This PVC hose is ribbed within the wall and has a smooth inside surfaces. It weighs about half that of rubber suction hose. Rated at 28" Hg vacuum at 68°F. Its small bend radius (see below) and high strength will give reliable service for pumping, siphoning, fish hauling, etc. Full rolls are 100 feet, sold per foot or by the roll.



	Actual I.D.	Max PSI	Minimum Bend Radius	Per Foot Price	Per 100' Roll
SH4	1 ½ ″	90	6"	\$3.10	\$230.00
SH5	2″	70	9″	\$4.30	\$330.00
SH6	3"	60	13"	\$8.10	\$640.00
SH8	4"	50	18"	\$13.30	\$1,070.00
SH9	6"	45	34"	\$17.80	\$2,120.00

•-Standard Stock Item

PLUMBING

Clear & Flexible Tubing

Quick Disconnect Fittings

PLUMBING

Quick Disconnect Fittings

If you have to disconnect hoses with any degree of regularity, you should consider Quick Disconnect (Q.D.) couplings. They provide fast, positive, leakproof connections for air, liquids and dry products. They connect and disconnect in seconds without tools; simply lift the cam levers. The female fittings use a Buna-N gasket where they meet the male fitting for a cushioned, leakproof seal. Choose either the aluminum or black fiber reinforced polypropylene for most applications. The polypropylene is rated to 100 psi on 3/4" to 2" size and 50 psi for 3" and larger at 68°F (20°C). Add Material code to any part number "A" for aluminum and "P" for polypropylene.

	Size	Aluminum	Polypropylene
Male Q	D. with	Female Thr	ead
Q75A	3/4 "	\$3.50	\$1.90
Q10A	1″	\$3.60	\$2.20
Q12A	1 1/4 "	\$4.70	\$2.50
Q15A	1 ½ ″	\$4.30	\$3.00
Q20A	2"	\$5.10	\$3.40
Q30A	3″	\$9.20	\$8.40
Q40A	4"	\$15.00	\$17.20
Q60A	6"	\$33.20	
Male Q	D. with	Male Threa	d
Q75F	3/4 "	\$4.50	\$2.10
Q10F	1″	\$4.90	\$2.20
Q12F	1 ¼ ″	\$6.60	\$2.90
Q15F	1 ½ ″	\$5.70	\$3.20
Q20F	2"	\$6.90	\$4.10
Q30F	3″	\$13.30	\$8.80
Q40F	4"	\$21.50	\$15.60
Q60F	6"	\$49.50	
Male Q	D. with	Hose Nippl	e
Q75E	3/4 "	\$3.70	\$2.30
Q10E	1″	\$4.20	\$2.30
Q12E	1 ¼ ″	\$5.50	\$2.50
Q15E	1 ½ ″	\$5.30	\$3.00
Q20E	2″	\$6.70	\$4.10
Q30E	3″	\$13.40	\$8.40
Q40E	4"	\$22.20	\$15.60
Male Q	D. Plug		
Q75W	3/4 "	\$3.00	\$1.90
Q10W	1″	\$3.60	\$1.90
Q12W	1 ¼ ″	\$4.30	\$2.50
Q15W	1 ½ ″	\$3.80	\$2.70
Q20W	2″	\$5.00	\$2.90
Q30W	3″	\$8.20	\$6.90
Q40W	4"	\$13.40	\$11.10
Female	Q.D. Ca	р	
Q75V	3/4 "	\$6.90	\$5.40
Q10V	1″	\$7.80	\$7.00
Q12V	1 1/4 "	\$10.50	\$9.60
Q15V	1 ½ ″	\$9.40	\$9.90
Q20V	2"	\$10.90	\$10.70
Q30V	3″	\$17.90	\$17.60
Q40V	4"	\$24.30	\$28.20
Q60V	6"	\$53.90	





Femal	e Q.D. w	ith Female T	hread
Q75D	3/4 "	\$8.10	\$
Q10D	1"	\$8.70	\$
Q12D	1 1/4 "	\$11.60	\$1
Q15D	11/2"	\$11.20	\$1
Q20D	2″	\$12.10	\$1
Q30D	3″	\$20.90	\$2
Q40D	4"	\$28.20	\$3



Size Aluminum Polypropylene



\$6.50

\$7.80

\$11.20

\$10.80

\$12.60

\$21.50

\$28.70

\$66.50

Female Q.D. with Hose Nipple





Discharge Hose

1 1/4 "

1 ½"

2"

4"

6"

This is a good quality, polyvinyl coated discharge hose. It is UV resistant for extra long life outdoors. It lies flat when not in use, which allows easy storage and handling.

Price is per foot. We will cut it according to how many feet of hose you order. Maximum roll length is 300'.

	73)-	
d		

A50112	1 1/2	\$0.92 per 100t
A502	2"	\$1.02 per foot
A503	3″	\$1.70 per foot
A504	4"	\$2.35 per foot
A506	6"	\$4.10 per foot





Rubberized Coating

New concrete leaches alkali, creating pH and water chemistry problems for fish. Concrete will also leach

calcium carbonate into your pond. Calcium carbonate is a necessary factor for algae growth. With H55B you can instantly seal and leakproof new and old concrete, block and brick. Offered in black, it can be brushed, rolled or sprayed with an airless gun in two or more coats (one hour apart). One gallon covers approximately 100 square feet. After a 72 hour cure period, fill with water and stock with fish.



Pipe Repair

Makes repairs under water in minutes! Permanently repairs pipes, fish boxes, boats, tanks, buckets, concrete, wood, fiberglass, PVC, practically anything (except most plastics like nylon and polyethylene) that leaks fresh or saltwater. Sets in 20 minutes and cures hard as steel in only a few hours. Safe for carrying potable water. 2 oz tube.



O-Ring Lubricant

This non-toxic, Teflon® based, waterproof lubricant is for wet or dry environments. White, light bodied, with a temperature range from 0 to 425°F. It prevents rust and is compatible with most metals, rubbers and plastics. USDA H1 rated to be environmentally safe and corrosion free. Coat O-rings, gaskets and bearings before reassembly. 5 oz tube.





Laguna Silicone Lubricant

Laguna Silicone Lubricant is specifically formulated to keep O-Rings on Click Fit connectors lubricated. The lubricant allows easier attachment and prolongs the life of the O-Rings.

2.20

PT595

Important

We have tried to make this catalogue as comprehensive specifications may change without notice.

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Silicone Aquarium Sealant

Contains no mildew/mold inhibitors.

Most silicone sealants on the market should not be used in fish tanks. This one is fish safe for aquarium manufacture and tank repair (after 48 hour cure). Adheres to clean glass, fiberglass, metal, painted surfaces, many plastics and rubbers and non-oily woods. Service range is -60 to 400°F (-51 to 204°C). Large size fits standard caulking guns. One year shelf life.

SIL1B	2.8 oz, Black	\$14.00
SIL1C	2.8 oz, Clear	\$14.00
SIL2B	10.3 oz, Black	\$27.00
SIL2C	10.3 oz, Clear	\$8.10



PVC Cement

"Rain Tight" is a cement that will cure in one hour in low pressure applications. All other regular cement takes 24 hours to cure. Ships by

\$8.65	Clear Cement ¼ Pint	PVCG1/4♦ Clear Cem	
\$22.50	Clear Cement 1 Pint	PVCG1♦ (
\$45.85	Grey Cement 1 Quart	PVCG+	
\$7.95	PVC Primer (Clear) 1/4 Pint	PVCP1/4♦	
\$11.25	Flex PVC Pipe Cement 1/4 Pint	PVCGF1/4♦	
\$29.75	Flex PVC Pipe Cement 1 Pint	PVCGF1♦	



Teflon® Thread Sealants

Used for copper, brass, steel, aluminum, galvanized, PVC and other plastic pipe threads (not recommended for acrylic and plexiglass). Our Teflon® tape is a full 0.002" thick for easier use. Roll is ½" wide x 520' (12.7 cm x 160 m). Meets Mil Spec T-27730A.

371♦ Teflon Tape



Strap Wrench

This flexible wrench is designed for problem jobs, especially pipes, unions and fittings that require high toque without surface damage. The reinforced polypropylene handle provides the leverage and the rubber strap handles up to 2,000 lbs. This combination provides an unbreakable grip. Available in three sizes: Baby for 0.4 - 4" (1 - 10 cm), Standard 1 - 6" (2.5 - 16 cm) and Monster 1 - 11" (2.5 - 28 cm). Monster strap works with standard handle.

\$2.70

11310	baby strap with harriale	722.50
RS25	Standard Strap with Handle	\$35.10
RS2	Monster Strap Only (No Handle)	\$35.10

Rahy Stran with Handle



and factual as possible. However, we reserve the right to make changes to prices without notice. Manufacturer's

\$22 FA

Compression Couplings

When you have to cut that pipe... Use these couplings to repair iron/ steel pipe or PVC (Schedule 40 or Schedule 80) or to mate dissimilar pipe materials together. Also for installing new branch lines, service joints, test hookups and clear sections, or use as expansion joints in long runs of PVC pipe. They can be removed and reused. Made of PVC. Not for use with compressed air or natural gas lines. NSF approved.

	Pipe Size	Max PSI	
CC05	1/2 "	400	\$2.05
CC07	3/4 "	400	\$2.40
CC10	1″	400	\$3.11
CC12	1 ¼ ″	350	\$3.56
CC15	1 ½″	300	\$4.85
CC20	2"	200	\$6.56
CC30	3″	150	\$22.97
CC40	4"	150	\$30.86
CC60	6"	100	\$56.05

Expansion Couplings

These telescopic PVC fittings are ideal for fixing broken pipes, connections in tight places and as expansion joints in long runs of pipe. Simply glue one end of the coupling to PVC, extend the other end into a fitting, then glue in place.

	Pipe Size	Body	Travel	
EC11705	1/2 "	6 11/16 "	2"	\$6.94
EC11707	3/4 "	7 %6″	2 ¼ ″	\$7.57
EC11710	1"	8 3/4 "	2 ½ ″	\$9.32
EC11712	11/4 "	9 13/16 "	2 % "	\$16.74
EC11715	1½″	10 15/16 "	3″	\$18.70
EC11720	2"	11 5/16″	3″	\$27.85
EC11730	3"	13 ½ ″	4"	\$76.79
EC11740	4"	14 ¹¾6″	4 ½ ″	\$134.23



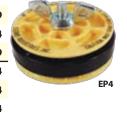
Important

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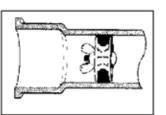
Expansion Plugs

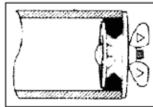
Expansion plugs are suitable for all low and medium pressure water applications. A simple twist of the wing nut will produce a watertight seal. The 11/2", 2" and 3" plugs fit the end of pipes only. The 4", 6" and 8" plugs can also be inserted into the pipe.

	Nominal Pipe Size	Pressure	
EP11A	1½" End Plug	40' Head	\$8.09
EP2	2" End Plug	40' Head	\$9.74
EP3	3" End Plug	40' Head	\$12.59
EP4	4" Pipe Plug	40' Head	\$16.04
EP6	6" Pipe Plug	30' Head	\$35.54
EP8	8" Pipe Plug	30' Head	\$75.14



EP11A





Pipe Plug

End Plug

Flexible Couplings

These couplings are extremely useful for adapting different materials and sizes, making temporary connections or for permanent connections that must allow some movement. Not FDA approved for potable water. Clamps are included. Use in low pressure applications only.



		-			
FC1	1 ¼ ″ x 1 ¼ ″	\$4.10	FC9	4" x 1½"	\$11.40
FC2	1½″x 1¼″	\$4.30	FC10	4" x 2"	\$11.40
FC3♦	1½″x 1½″	\$4.40	FC11	4" x 3"	\$11.00
FC4	2" x 1 ½ "	\$4.90	FC12♦	4" x 4"	\$11.60
FC5♦	2" x 2"	\$4.90	FC13	6" x 4"	\$17.00
FC6	3" x 1 ½"	\$8.75	FC14♦	6" x 6"	\$20.20
FC7	3" x 2"	\$7.90	FC16	8" x 8"	\$35.00
FC8♦	3" x 3"	\$8.90			
			-		

Quick Caps

For testing or easy clean out of low pressure piping. Material is same as flexible couplings.

	PVC Pipe Size	
QC1	1 ½ ″	\$3.00
QC2	2″	\$3.50
QC3	3″	\$4.70
QC4	4"	\$7.25
QC5	6"	\$20.40



Hand-Tite® Plugs

This reusable Hand-Tite® expansion plug is excellent for many applications and can be used in any pipe, including plastic, clay and iron. It seals the bell and spigot ends of pipes as well as jagged holes. Plugs are made of nylon and rubber and can be used in saltwater. No tools required for installation

cquirca ioi i	i istaliation.	
	Pipe Size	
HT4D	4"	\$22.6
HT6D	6"	\$26.1
HT8D	8"	\$62.8
HT12D	12"	\$211.0

Van Stone Flanges

Van Stone style uses two pieces with center socket loose from the flange portion until tightened. Gaskets and bolts not included.

וו זטוו צווטע	boits not included.					
854010	1" Flange	\$13.50				
854020	2" Flange	\$19.80				
854030	3" Flange	\$33.80				
854040	4" Flange	\$42.65				
854060	6" Flange	\$67.20				
854080	8" Flange	\$109.30				
854100	10" Flange	\$340.60				
854120	12" Flange	\$367.25				

Flange Gaskets

Rubber gaskets for flanges.

	Fits Flange Size	Bolt Holes	
854010G	1″	1/2 "	\$16.2
854020G	2″	5/8 "	\$19.8
854030G	3″	5/8 "	\$21.4
854040G	4"	5/8 "	\$22.1
854060G	6"	3/4 "	\$37.5
854080G	8"	3/4 "	\$41.5
854100G	10"	7/8 "	\$63.2
854200G	12"	7⁄8 ″	\$73.1

Plastic Clamps

These guick ratcheting, non-corroding clamps work very well on vinyl tubing. They tighten by hand or with pliers and are releasable/ reusable. Not for high pressure applications. UV resistant. Maximum diameters shown are for two teeth engaged.

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	Min. Dia.	Max. Dia.	
SNP2♦	0.35"	0.39"	\$0.75
SNP6◆	0.45"	0.51"	\$1.13
SNP10	0.57"	0.65"	\$1.13
SNP14	0.70"	0.80"	\$1.13
SNP19	0.86"	1.00"	\$1.13
SNP24♦	1.00"	1.13"	\$1.50



Flexible Black Modular Piping

1/2" Flex. Joint Tubing 6"

This modular piping snaps together for use in tanks and aquariums (expect some joint leakage). Its unique ball socket joint design makes it extremely flexible and enables the creation of custom flow patterns in tanks; for example, the ½" multi-nozzle tubing is approximately 12" long and has 15 side outlets. Additional nozzles and adapters are listed below.

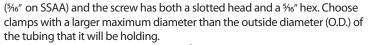
\$6.15

	•	
JT2	½" Round Nozzle	\$2.00
JT3	½" 90° Nozzle	\$2.85
JT11	½" x 1.2" Flared Nozzle	\$5.00
JT4	½" MPT Connector	\$2.00
JT5	½" Y Fitting	\$5.00
JT6	1/2" Elbow Fitting	\$4.90
JT7	½" MPT Valve	\$13.45
JT8	½" FPT Valve	\$13.45
JT9	1/2" In-Line Valve	\$13.45
JT10	½" Multinozzle, 15 Flow	\$47.00
JT1P	1/2" Assembly Pliers	\$26.00
JT12	3/4" Flex: Joint Tubing 6"	\$7.70
JT13	3/4" Round Nozzle	\$2.50
JT16	¾" F x ½" M Adapter	\$5.20
JT14	3/4" MPT Connector	\$2.50
JT17	3/4" x 3" Flared Nozzle	\$7.50
JT15	¾" Y Fitting	\$7.50
JT18	3/4" Elbow Fitting	\$6.30
JT19	3/4" In-Line Valve	\$16.80
JT20	3/4" MPT Valve	\$16.80
JT21	34" FPT Valve	\$16.80



SS Hose Clamps

You can find clamps for less, but then they must be replaced when the screw rusts away. These quality clamps are all stainless steel (#301SS band) including the screw (#410SS)! The one piece housing is locked to the band without spot welds. The band is %6" wide



	Size			Size	
SSAA♦	1⁄4" to 5⁄8"	\$0.40	SSF	1½" to 2½"	\$1.13
SSA♦	5%6″ to 7%″	\$0.40	SSG♦	21/4" to 31/4"	\$1.27
SSB♦	½" to 1¼"	\$0.94	SSH	2½" to 4½"	\$1.52
SSC*	3/4" to 13/4"	\$1.00	SSI	3" to 5"	\$1.59
SSD+	1" to 2"	\$1.04	SSJ	41/2" to 61/2"	\$2.22
SSE	1¼" to 2¼"	\$1.09			

PLUMBING

Modular Piping & Clamps

Tubing Adapters, 1/8" to 1/2"

These polyethylene, precision injected, molded fittings are high strength, inert and non-corroding. These tubing adapters are approved by the National Sanitation Foundation (NSF) for use with liquids for human consumption. Temperature range: -65°F to 190°F. Working pressure up to 120 psi.

Ma	le	Ad	ap	ters
		,,,,,	up	

Male Adapt	ers	
62001♦	%″NPT x ¾″ barb	\$0.60
62005♦	¼″ NPT x ¾6″ barb	\$0.68
62013+	½" NPT x ¾6" barb	\$1.05
62007♦	%" NPT x 1/4" barb	\$0.60
62006+	1/4" NPT x 1/4" barb	\$0.60
62014	½" NPT x ¼" barb	\$0.90
62020♦	¾" NPT x ¼" barb	\$1.80
62009♦	%″ NPT x ¾″ barb	\$0.90
62008♦	¼″ NPT x ¾″ barb	\$0.60
62016+	½" NPT x ¾" barb	\$0.90
62021\$	¾" NPT x ¾" barb	\$1.30
62010+	1⁄4" NPT x 1⁄2" barb	\$1.00
62018♦	½" NPT x ½" barb	\$1.00
62022\$	¾″ NPT x ½″barb	\$1.45
Tees		
62063♦	¾6″ barb	\$1.13
62064	¼"barb	\$1.20
62065♦	¾"barb	\$1.20
62067♦	½"barb	\$1.45
62062+	1/2" x 1/2" x 3%" all barb	\$1.34
62056♦	%" NPT x ¾6" x ¾6"	\$1.95
62122\$	1/4 " NPT x 1/2" x 1/2"	\$1.95
62124	38" NPT x ½" x ½"	\$1.71
62125♦	½" NPT x ¾" x ¾"	\$1.71
62123\$	½" NPT x ½" x ½"	\$1.64
Connectors		
62068+	¾6" barb x ¾6" barb	\$0.98
62053+	¼″barb x ¾″barb	\$0.90
62069+	1/4" barb x 1/4" barb	\$0.85
	2/// 1 1/// 1	40.00

Nipple

62054

62055

62071+

62052

62051+

62072♦

62050♦

62073♦

62075♦	1/4" MNPT x 1/4" MNPT	\$0.83
62083	1/2" MNPT x 1/4" MNPT	\$1.05
62084	½" MNPT x ¾" MNPT	\$2.45

%"barb x 1/4"barb

1/2" barb x 1/4" barb

%"barb x %"barb

1/2" barb x 3/8" barb

%"barb x %"barb

1/2"" barb x 1/2" barb

%"barb x ½"barb

%" barb x %" barb

\$0.83

\$1.30

\$0.83

\$0.83

\$1.28

\$0.90

\$1.79

\$0.95



62001L	%″ NPT x ¾6″ barb	\$1.20
62007L	%" NPT x 1/4" barb	\$1.20
62088	¾″ NPT x ¼″barb	\$1.48
62085	½" NPT x ¼" barb	\$1.49
62009L	%″ NPT x ¾″ barb	\$1.35
62089♦	¾″ NPT x ¾″ barb	\$1.48
62086♦	½" NPT x ¾" barb	\$1.49
62079♦	1/4" NPT x 1/2" barb	\$1.71
62087	½" NPT x ½" barb	\$1.49
62080♦	1/4" barb x 1/4" barb	\$1.20
62081+	¾"barb x ¾"barb	\$1.20

620824 ½"barb x ½"barb \$1.28

Plugs

62024	1/8" Male NPT	\$0.45
62025♦	1/4" Male NPT	\$0.45
62026♦	¾″Male NPT	\$0.53
62027	½"Male NPT	\$0.68
62028	¾" Male NPT	\$1.13

Brass Fittings

These high quality, brass fittings will work at high temperatures to 150 psi. They are made of CA360, CA345 or CA370 brass for years of continuous use. Note: Barb sizes are "nominal" ($\frac{1}{2}$ " = 0.62" actual).

continuous	use. Note: Barb sizes are "r	nominal" (!
Male Ada	pters	
62001B	%″ NPT x ¾6″ barb	\$2.35
62007B♦	%" NPT x ¼" barb	\$2.94
62009B ♦	%″ NPT x ¾″ barb	\$2.94
62005B ♦	1/4" NPT x 3/16" barb	\$2.94
62006B+	1/4" NPT x 1/4" barb	\$2.13
62008B+	¼" NPT x ¾" barb	\$1.86
62010B♦	1/4" NPT x 1/2" barb	\$2.24
125-6B	¾″ NPT x ⅓″ barb	\$1.28
62014B♦	½" NPT x ¼" barb	\$2.97
62016B ♦	½" NPT x ¾" barb	\$3.37
62018B♦	½" NPT x ½" barb	\$3.45
62021B	¾" NPT x ¾" barb	\$5.60
62022B	¾" NPT x ½" barb	\$6.64
ZBN54	½" NPT x %" barb	\$5.25
Elbows		
100-C ♦	%" FPT x %" FPT	\$4.92
100-D♦	1/2" FPT x 1/2" FPT	\$5.52
1398B ♦	1/4" NPT x 1/2" barb	\$6.27
1398C ♦	¾" NPT x ½" barb	\$3.53
Tees		
101-B ♦	1/4" FNPT x FNPT x FNPT	\$3.66
101-C ♦	%" FNPT x FNPT x FNPT	\$4.40

1/2" FNPT x FNPT x FNPT

1/4" barb x 1/4" barb

%" barb x %" barb 3/8" barb x 5/8" barb

Tubing Adapters 1/2" to 4"

Use these insert fittings for repairing, adapting or connecting black poly tubing. Connections under stress or pressure will require hose clamps. These insert fittings fit the nominal sizes of polyethylene tubing. Use letter following the part number to indicate size (A - ½ ", B - ¾ ", C - 1", D-11/4", E-11/2", F-2", G-3", H-4").

Male Adapter

Female Adapter

1/2"

1 ½"

2"

3/4"

1 1/4 "

2"

\$2.90

\$3.15

\$3.45

\$4.25

\$5.36

\$8.72

\$1.62

\$2.30

\$2.95

\$3.98

\$5.16

\$7.69

(FNPT x barb)

117D♦ 1 ¼ ″

117A**♦**

117C**♦**

117E♦

117F♦

113A**♦**

113B♦

113C**♦**

113D♦

113E♦

113F♦

90° Elbow (MNPT x barb)

Coupling

(barb x b	oarb)			(MNPT x	barb)	
101A ♦	1/2"	\$0.50	463	103A ♦	1/2"	\$0.44
101B ♦	3/4"	\$0.50	88	103B ♦	3/4"	\$0.47
101C ♦	1″	\$0.65		103C ♦	1″	\$0.65
101D♦	1 1/4 "	\$0.88	101	103D♦	1 ¼ ″	\$0.85
101E♦	1 ½"	\$1.10	67	103E♦	1 ½"	\$1.00
101F♦	2"	\$1.80	E F	103F♦	2"	\$1.80
101G ♦	3″	\$9.40		103G ♦	3"	\$11.25
Plug (ba	rb)			103H ♦	4"	\$36.80
					-	







½"x ½"

3/4" x 1/2"

1" x ½"

3/4" x 3/4"

1" x ¾"



119A**♦**

119B

119C

119D**♦**

119E





2" x 2" x ½"

Tee (Barb x Barb x FNPT)

121A

121B

122A

122J**♦**

Note: Last dimension is the Center

3/4" x 1/2" x 1/2"

1" x ¾" x ½"

½" x ½" x ½"

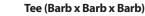
\$6.53

\$7.24

\$1.55

\$14.24

\$6.56



iee (Bari	o x Barb x Barb)		
Note: Last	Note: Last dimension is the Center		
123A	3/4" X 1/2" X 1/2"	\$4.59	
123B	1" x ¾" x ½"	\$6.50	
124A	½" x ½" x ¾"	\$3.65	
124B	³ / ₄ " x ³ / ₄ " x 1"	\$4.20	
112A	3/4" X 3/4" X 1/2"	\$1.65	
112B ♦	1" x 1" x ½"	\$2.05	
112C	1" x 1" x ¾"	\$2.05	
112D♦	1¼" x 1¼" x ½"	\$2.75	
112G ♦	1½" x 1½" x ½"	\$4.62	

Male Adapter	(Barb x MNPT)
--------------	---------------

112J♦ 2" x 2" x ½"

110A ♦	½" x ¾"	\$1.85
110B♦	³ ⁄ ₄ " x 1"	\$1.90
110C ♦	1" x 1½"	\$3.33
110D ♦	1½"x 2"	\$4.64
110E ♦	11/4" x 11/2"	\$2.95
110F ♦	1"x 1¼"	\$2.40
111A ♦	3/4" x 1/2"	\$2.05
111B ♦	1" x ¾"	\$2.10
111C+	1¼"x 1"	\$2.54
111D ♦	2" x 1½"	\$4.95
111E ♦	1½" x 1¼"	\$3.85
111F ♦	1½"x 1"	\$3.85
111G ♦	1" x ½"	\$5.12

Coupling (Barb x Barb) 100A 3/4" v 1/4"

109A♦	3/4" X 1/2"	\$0.7
109B	1" x ¾"	\$0.7
109C	1¼" x 1"	\$0.8
109D	1½"x 1¼"	\$2.0
109E	2" x 1½"	\$3.3
109F♦	1" x ½"	\$0.7

90° Reducing Elbow (Barb x Barb)

120A	³⁄4″ x ¹⁄2″	\$1.50
120B	1" x ¾"	\$1.82



PLUMBING

Poly Fittings









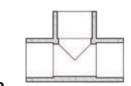




62069B*

\$7.50

\$2.58 \$2.68 Our PVC fittings are all first quality Schedule 40 (except where noted). We offer a great selection of hard to find PVC fittings.





Slip x Slip x Slip

401005♦	1/2 "	\$0.66
401007♦	3/4 "	\$0.77
401010+	1"	\$1.41
401012+	1 ¼ ″	\$2.07
401015♦	1 ½"	\$2.42
401020♦	2"	\$3.62
401030♦	3"	\$15.75
401040+	4"	\$28.49
401060♦	6"	\$95.90
		en en



Wye - 45°

Slip x Slip x Slip				
475005♦	1/2 "	\$3.76		
475007♦	3/4 "	\$5.92		
475010♦	1"	\$8.26		
475012♦	1 ¼ ″	\$14.40		
475015♦	1 ½″	\$16.12		
475020♦	2"	\$44.92		
475030♦	3"	\$66.20		
475040	4"	\$119.94		
475060	6"	\$224.94		



\$0.60

\$0.72

\$1.31

\$2.22

\$2.44

\$6.30

\$23.36

\$35.40

\$0.79

\$1.39

\$1.72

\$2.92

\$3.53

\$3.90

\$7.50

90° Elbow Slip x Slip

90° Elbow

FNPT x Slip 407005♦

407007♦

407010+

407012

407015♦

407020♦

407030♦

407040

407101

406005♦	1/2 "	\$0.53
406007♦	3/4 "	\$0.5
406010♦	1″	\$0.96
406012♦	1 1/4 "	\$1.7
406015♦	1 ½ ″	\$1.88
406020+	2″	\$2.92
406030♦	3″	\$10.73
406040♦	4"	\$19.20
406060	6"	\$61.04
406101+	½ ″ x ¾″	\$0.99

1/2 "

3/4 "

1"

1 1/4 "

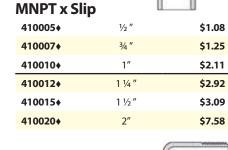
1 ½ "

2"

3"

4"

1/2" x 3/4"



1/2 "

3/4 "

1"

1 1/4 "

1 ½ ″

2"

1/2 "

3/4 "

1"

1 1/4 "

1 ½ ″

2"

3"

4"

1/2 "

3/4 "

1"

1 1/4 "

1 ½ "

2"

3"

4"

\$1.76

\$3.03

\$3.75

\$4.07

\$7.78

\$0.89

\$1.25

\$1.63

\$2.28

\$2.64

\$3.44

\$13.95

\$25.00

\$1.88

\$3.11

\$3.90

\$5.14

\$5.82

\$8.60

\$18.45

\$40.52

www.FishFarmSupply.ca

90° Elbow

90° Elbow

412005

412007+

412010

412012

412015

412020

45° Elbow

Slip x Slip

417005♦

417007♦

417010♦

417012♦

417015♦

417020

417030

417040

Crosses

Slip All

420005

420007

420010+

420012

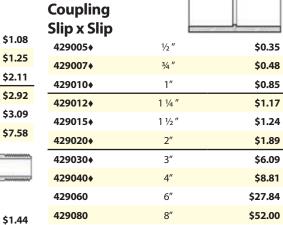
420015

420020+

420030

420040

MNPT x FNPT





PLUMBING

PVC Fittings

\$0.87

\$0.50

\$1.00

\$0.94

\$1.36

\$1.36

\$1.36

\$1.45

\$1.45

\$1.45

\$1.45

\$2.22

\$2.22

\$2.22

\$2.22

\$2.22

\$5.20

\$5.20

\$5.20

\$5.20

\$11.66

\$11.66

Male Adapter Slip x MNPT

Reducing

436005♦	1/2 "	\$0.46
436007♦	3/4 "	\$0.50
436010♦	1"	\$0.85
436012♦	1 1/4 "	\$1.17
436015♦	1 ½ ″	\$1.44
436020+	2″	\$1.90
436025♦	2 ½ ″	\$5.56
436030♦	3″	\$8.19
436040+	4"	\$10.42

Reducer Coupling

Slip x Slip		4
429101♦	3/4 " X 1/2 "	\$0.81
429131♦	1" x ¾"	\$1.39
429168+	1 ¼ " x 1"	\$2.34
429212+	1½" x 1¼"	\$2.57
429251♦	2" x 1½"	\$3.92

\$3.92

Coupling FNPT x FNPT		
430005♦	1/2 "	\$0.62
430007♦	3/4 "	\$1.15
430010♦	1"	\$1.51
430012♦	1 ¼ ″	\$5.09
430015♦	1 ½ ″	\$10.09
430020♦	2"	\$11.92
/20101A	1/2 " y 3/4 "	¢1 50

430005♦	1/2 "	\$0.6
430007♦	3/4 "	\$1.1
430010♦	1"	\$1.5
430012♦	1 1/4 "	\$5.0
430015♦	1 ½"	\$10.0
430020♦	2″	\$11.9
430101+	½″ X ¾″	\$1.5
430131♦	3/4 " x 1"	\$2.2

Female Ada

FNPT x Slip		WWH
435005♦	1/2 "	\$0.60
435007♦	3/4 "	\$0.72
435010♦	1″	\$0.80
435012♦	1 1/4 "	\$1.25
435015♦	1 ½ ″	\$1.56
435020♦	2″	\$1.92
435030♦	3″	\$6.58
435040♦	4"	\$10.91

Reducing	
Male Adap	oter
Slip x MNF	PT
436074♦	3/4 " x 1/2 "

437101♦

437130♦

437131♦

437166♦

437167♦

437168

437209♦

437210♦

437211♦

437212♦

437247♦

437248

437249♦

437250♦

437251♦

437335

437336

437337♦

437338♦

437420♦

437422

436102+	1" x ¾"	\$0.81
436132♦	1 ¼ " x 1"	\$2.92
436169♦	1½″ x 1¼″	\$3.31
436212♦	1 ¼ ″ x 1 ½ ″	\$4.00
436213♦	2" x 1½"	\$4.00
Reducer E Spig x Sli	-	

 $\frac{3}{4}$ " x $\frac{1}{2}$ "

1" x ½"

1" x ¾"

1 ¼ ″ x ½ ″

1 1/4 " x 3/4 "

1 ¼ " x 1"

1 ½ " x ½ "

1 ½ " x ¾ "

1 ½ " x 1"

1½" x 1¼"

2" x ½"

2" x ¾"

2" x 1"

2" x 1 1/4"

2" x 1 ½ "

3" x 1"

3" x 1 1/4"

3" x 1 ½ "

3" x 2"

4" x 2"

4" x 3"

pters	
1/2 "	\$0.60
3/4 "	\$0.72
1″	\$0.80
1 1/ //	£1.25

+33003¥	72	Ş0.00
135007♦	3/4 "	\$0.72
135010♦	1"	\$0.80
135012♦	1 1/4 "	\$1.25
135015♦	1 ½ ″	\$1.56
135020♦	2″	\$1.92
135030♦	3″	\$6.58
135040♦	4"	\$10.91

Reducing Tee

Slip x Slip x Slip - A x B x C

	,	
401101♦	3/4 " X 3/4 " X 1/2 "	\$0.81
401126♦	1" x ¾" x 1"	\$2.34
401130♦	1" x 1"x ½"	\$1.39
401131♦	1"x 1" x ¾"	\$1.51
401167	1 ¼ " x 1 ¼ " x ¾ "	\$2.27
401168+	1 ¼ " x 1 ¼ " x 1"	\$2.27
401209♦	1½″x 1½″x ½″	\$3.95
401210♦	1½" x 1½" x ¾"	\$4.26
401211♦	1½″x1½″x1″	\$3.95
401247♦	2" x 2"x ½"	\$3.90
401248♦	2"x 2" x ¾"	\$3.90
401249♦	2" x 2" x 1"	\$3.90
401251♦	2" x 2" x 1½"	\$3.90
401335	3" x 3" x 1"	\$17.14
401337	3" x 3" x 1½"	\$17.14
401338	3" x 3" x 2"	\$17.11
401420	4" x 4" x 2"	\$28.49
401422	4" x 4" x 3"	\$28.49

1/2 "

3/4 "

1"

1 1/4 "

1 ½ "

2"

\$0.89

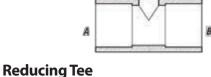
\$1.36

\$2.34

\$3.71

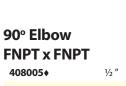
\$4.82

\$6.11



Slin v Slin v FNPT - A v R v C

Slip x SI	ip x FNPT - A x B x	C
402071♦	½" x ½" x %"	\$1.75
402101+	3/4 " X 3/4 " X 1/2 "	\$1.08
402130♦	1" x 1"x ½"	\$1.62
402131♦	1"x 1" x ¾"	\$2.34
402166♦	1 ¼ ″ x 1 ¼ ″ x ½ ″	\$3.90
402167♦	1 ¼ " x 1 ¼ " x ¾ "	\$3.90
402168♦	1 ¼ " x 1 ¼ " x 1"	\$3.90
402209♦	1½″x 1½″x ½″	\$4.82
402210♦	1½" x 1½" x ¾"	\$4.82
402247♦	2" x 2"x ½"	\$6.06
402248	2" x 2" x ¾"	\$6.06
402249\$	2" x 2" x 1"	\$6.06
402251♦	2" x 2" x 1½"	\$6.06
402335	3" x 3" x 1"	\$18.77
402338	3" x 3" x 2"	\$18.77



Spigot x Slip

409005

409007

409010+

409012

409015

409020

408005♦	1/2 "	\$1.19
408007+	3/4 "	\$1.76
408010♦	1"	\$3.75
408012+	1 1/4 "	\$4.02
408015♦	1 ½ ″	\$5.07
408020+	2"	\$7.72
90° Elbow		

1/2 "

3/4 "

1"

1 1/4 "

1 ½ ″

		- 1	
***********	WE .	-	
	1	/	
, reconstructions	W	1969	otokono

Tee

FNPT x FNI	PT x FNPT	
405005♦	1/2 "	\$2.23
405007♦	3/4 "	\$3.53
405010♦	1"	\$4.88
405012♦	1 1⁄4 "	\$6.77
405015♦	1 ½ ″	\$6.95
405020♦	2"	\$9.20

NPT x FNI	PTXFNPT	
405005♦	1/2 "	\$2.23
405007♦	3/4 "	\$3.53
405010♦	1"	\$4.88
405012♦	1 ¼ ″	\$6.77
405015♦	1 ½ ″	\$6.95
405020♦	2"	\$9.20

Long Sweep

To keep friction losses low, it's best to use sweeps as opposed to elbows in plumbing systems. These long sweeps are pressure rated to 30 psi. White PVC compatible with Schedule 40, 80, and DWV size pipes. Female socket on both ends.

SP15	1½″	\$6.90
SP20	2"	\$8.85
SP30	3″	\$17.00
SP40	4"	\$30.00

Slip x Slip x FNPT

Tee

402005♦

402007♦

402010♦

402012♦

402015♦

402020+

Reducer Bushing

Spig x FN	IPT	100
438071♦	½″ x ½″	\$1.08
438072♦	½" x ¼"	\$1.08
438073♦	½″ x ¾″	\$1.08
438098	³ ⁄ ₄ " × ¹ ⁄ ₄ "	\$1.08
438101♦	3/4" x 1/2"	\$0.81
438130♦	1" x ½"	\$1.31
438131♦	1" x ¾"	\$1.31
438166♦	1 ¼ ″ x ½ ″	\$2.03
438167♦	1 ¼ ″ x ¾ ″	\$2.18
438168+	1 ¼ " x 1"	\$2.07
438209♦	1½" x½"	\$2.34

15007 = 1	/2 / / ·	4
438073♦	½″ x ¾″	\$1.08
438098+	³ / ₄ " x ¹ / ₄ "	\$1.08
438101♦	3/4 " X 1/2 "	\$0.81
438130♦	1" x ½"	\$1.31
438131♦	1" x ¾"	\$1.31
438166♦	1 ¼ ″ x ½ ″	\$2.03
438167♦	1 ¼ ″ x ¾ ″	\$2.18
438168+	1 ¼ " x 1"	\$2.07
438209♦	1 ½ ″ x ½ ″	\$2.34
438210♦	1 ½ ″ x ¾ ″	\$2.34
438211♦	1 ½ ″ x 1″	\$2.34
438212♦	1½″ x 1¼″	\$2.54
438247♦	2" x ½"	\$3.11
438248*	2" x ¾"	\$3.11
438249♦	2" x 1"	\$3.11

2" x 1 1/4 "

2" x 1 ½ "

3" x 1"

3" x 1 1/4"

3" x 1 ½ "

3" x 2"

4" x 2"

4" x 21/2"

438250♦

438251♦

438335

438336

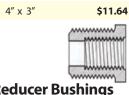
438337

4383384

438420

438422♦

438422



Threaded Reducer Bushings

-			
MNPT x	FNPT		
439072♦	½″ X ¼″	\$2.34	
439073♦	½″ X ¾″	\$2.34	
439098♦	3/4 " X 1/4 "	\$1.44	
439099♦	3/4 " X 3/8 "	\$1.44	
439101♦	³¼″ X ½″	\$1.44	
439130♦	1" x ½"	\$2.03	
439131♦	1" x ¾"	\$2.03	
439168+	1 ¼ " x 1"	\$3.02	
439209♦	1 ½ ″ x ½ ″	\$3.63	
439210♦	1 ½ ″ x ¾ ″	\$3.63	
439211♦	1 ½ ″ x 1″	\$3.63	
439212♦	1½″ x 1¼″	\$3.63	
439249♦	2" x 1"	\$6.59	
439251♦	2" x 1 ½"	\$6.59	

Cap Slip

1/2 "

3/4 "

1 1/4 "

1 ½ "

3"

1/2 "

1 1/4 "

1 ½ "

1/2 "

3/4 "

1 1/4 "

1 ½ ″

1/2 "

3/4 "

1 1/4 "

1 ½ "

3"

447005+

447007

447010+

447012♦

447015♦

447020

447030♦

447040

447060

Cap

FNPT

448005

448007

448010

448012

448015

448020+

448030+

448040

Plugs

Spig

449005

449007

449010

449012

449015

449020+

449030

449040

Plugs

MNPT

450005♦

450007♦

450010♦

450012♦

450015♦

450020♦

450030+

450040+

\$3.11

\$3.11

\$5.20

\$5.20

\$5.20

\$5.20

\$11.64

\$11.64

Bar	
Slip	
474	\$0.48

\$0.56

\$0.89

\$1.24

\$1.36

\$1.51

\$5.27

\$11.98 \$28.75

\$0.94

\$1.08

\$1.62

\$1.92

\$2.03

\$3.59

\$6.52

\$11.45

\$1.08

\$1.25

\$1.51

\$1.97

\$2.56 \$3.19

\$7.19

\$16.31

\$1.34

\$1.44

\$2.34

\$2.46

\$2.63 \$3.39

\$7.13

\$16.13

Barb Adapter Slip x Barb		
474005♦	1/2 "	\$1.7
474007	3/4 "	\$2.0
474010+	1"	\$2.2
474015♦	1 ½ ″	\$4.3
474020♦	2"	\$7.9
474030	3"	\$22.3

Barb Adapter Spig x Barb



Important

We have tried to make this catalogue as comprehensive and factual as possible. However, we reserve the right to make changes to prices without notice. Manufacturer's specifications may change without notice.



Laguna Connectors

These connectors are specifically designed for non-kink tubing and Laguna Click-Fit Connections.

PT677 ♦	Multi-Hose Adapter, ¾ " to 1½ "	\$7.00
PT624 ♦	Thread Male Fitting, ¾ ", 1", 1¼ "	\$9.00
PT640 ♦	Hose Connector, 3/4 ", 1", 11/4"	\$5.50
PT638+	Hose Connector, 11/2"	\$4.00
	1105C COTHICCTOR, 172	74.00
PT639 ♦	Transition Click-Fit, 1"F x 11/4"M	\$3.00

Union Slip x Slip

Schedule 40 with O-ring

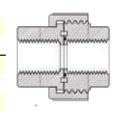
457005♦	1/2 "	\$2.52	
457007♦	3/4 "	\$3.31	
457010♦	1"	\$4.30	ď
457012♦	1 1/4 "	\$7.61	7
457015♦	1 ½ ″	\$9.64	Jun
457020♦	2"	\$15.96	

Union

FNPT x FNPT

Schedule 40 with O-ring

458005♦	1/2 "	\$2.64
458007♦	3/4 "	\$3.43
458010♦	1″	\$4.60
458012♦	1 1/4 "	\$7.98
458015♦	1 ½ ″	\$10.06
458020♦	2"	\$16.32



Close Nipple MNPT x MNPT

879005♦	1/8 "	\$1.50
880005	1/4 "	\$1.50
881005	3/8 "	\$1.65
882005♦	1/2 "	\$1.75
882007♦	3/4 "	\$1.61
882010+	1"	\$2.17
882012♦	1 ¼ ″	\$2.53
882015♦	1 ½ ″	\$3.04
882020♦	2"	\$4.01
889005	3"	\$16.80
890005	4"	\$39.20



6" Nipple, Gray Schedule 80 PVC

882060	1/2 "	\$2.25
883060	3/4 "	\$2.70
884060	1″	\$3.70
885060	1 ¼ ″	\$4.95
886060	1 ½ ″	\$5.70
887060	2"	\$7.25
889060	3″	\$34.35
890060	4"	\$41.50



Clear PVC Fittings

Schedule 40 PVC. These PVC fittings use regular PVC cement (373).

Tees		
C401005	Tee ½ " Slip	\$13.80
C401007	Tee ¾" Slip	\$15.60
C401010	Tee, 1" Slip	\$26.40
C401015	Tee, 1 ½ " Slip	\$53.55
C401020	Tee, 2" Slip	\$76.35
90° Elbows		
C406005	Elbow·1/2 " Slip	\$12.15
C406007	Elbow, 3/4" Slip	\$10.20
C406010	Elbow, 1" Slip	\$22.35
C406015	Elbow, 1 ½ " Slip	\$35.85
C406020	Elbow, 2" Slip	\$62.70
Coupling		
C429005	Coupling 1/2 " Slip	\$6.90
C429007	Coupling 3/4" Slip	\$10.05
C429010	Coupling, 1" Slip	\$16.05
C429015	Coupling, 1 ½ " Slip	\$26.40

Coupling, 2" Slip





Cage Fittings, PVC

C429020

Special, hard to find PVC fittings for the construction of floating cages, framework, etc. Use inner caps to seal off air filled sections from water filled sections. Three way, 4 way and 5 way cross compatible with standard Schedule 40 PVC and Schedule 80 PVC. Inner caps compatible with Schedule 40 PVC pipe and all fittings. UV resistant. Note that PPF14 has a 1 $\frac{1}{4}$ "cross with 1 1/2 "center socket.

\$33.00

3 way			4 way "L"		
PPF16♦	1/2 "	\$1.80	PPF17♦	1/2 "	\$2.10
PPF7♦	1"	\$3.45	PPF10◆	1"	\$3.60
PPF8♦	1 ¼ ″	\$3.90	PPF11♦	1 ¼ ″	\$3.90
PPF9♦	1 ½ ″	\$4.65	PPF12♦	1 ½ ″	\$5.25





5 way Cros	s		Inner Cap	os	
PPF13A♦	1″	\$4.50	PPF15	1/2 "	\$1.31
PPF13♦	1 ¼ ″	\$6.50	PPF4	1″	\$1.28
PPF14♦	1½ "center	\$8.25	PPF5	1 ¼ ″	\$1.35
PPF14A♦	1 ½ ″	\$10.65	PPF6	1 ½ ″	\$1.65







The Pond Book: A Complete Guide to Site Planning, Design and Management of Small Lakes and Ponds

What is the attraction of ponds? Why do so many homeowners choose a site with a pond on the property, or build their own water vista? Ponds, when properly managed, enhance a property. Ponds provide an environment for fish, recreational entertainment through swimming or boating, a satisfying wildlife habitat, and higher real estate value to any rural property. Ponds are hard work. They do not flourish on their own. The

wise property-owner manages his or her pond for maximum enjoyment and pleasure. John Stephen Hicks has spent much of his private and professional life around lake or pond environments, and this book is a comprehensive summary of his years of experience in pond and landscape management.

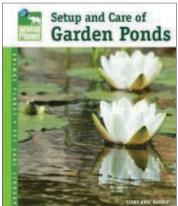
Written for the serious layperson, The Pond Book explores the wide variety of pond ecosystems available, and their function; topographic and soil requirements, design and construction techniques, wildlife management, fish species and their cultivation, local bylaws affecting pond maintenance, algae and plant control, parasite problems, chemical and physical parameters of water sources, and water control / erosion devices. John Stephen Hicks, 207 pages.

WQB303**♦**



This functional book contains information on creating, stocking, and maintaining garden ponds of all sizes, and offers advice on issues like pond and plant maintenance, species selection, and health care.

Each book features newly written text from animal experts on a variety of topics, including feeding, housing, grooming, training, health care, and fun activities. Useful tip boxes in each chapter show every member of the household how to make the



most out of owning a pet. Hardcover, 112 pages. Terry Anne Barber.

BV1103♦

The Simple Guide to Garden Ponds

A great book for first time pond keepers to learn from and grow with from an author who is especially in tune with what pond keepers want and need to know. It is written to make all aspects of pond keeping simple and enjoyable, from deciding on a pond to building it, stocking it, planting it and maintaining it. Nearly 150 full colour photos



help take the pond enthusiasts through all stages of consideration and $% \left\{ 1,2,...,n\right\}$ completion. The "Simple Guide" format features lots of photos, tips, sidebars checklists and charts to make finding and using information simple. Extensive resources and a detailed index for further ease of use. Soft cover, 243 pages. Terry Anne Barber.

BV1107 \$29.99

Conditioning, Spawning and Rearing of Fish with Emphasis on Marine Clownfish

The title says it all! Contains everything you need to know about raising marine, brackish, or freshwater tropical fish. A must have book. Frank Hoff, 1996.

WQB33

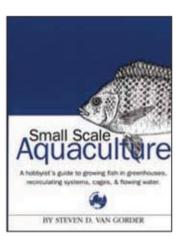
\$49.85



Small Scale Aquaculture

Updated and expanded from the earlier best seller Home Aquaculture, this is an excellent book for the hobbyist, now including detailed information on recirculating tank, cage culture, aquaponic and small-scale flowthrough applications. Steven D. Van Gorder, revised 2000. Softcover, 210 pages.

WQB25♦ \$39.45



Aquaponic Food

production

THE POND BOOK

Aquaponic Food Production

Aquaponic Food Production is a comprehensive book on aquaponics. Whether your interest is hobby, home food production or a commercial venture, this book provides valuable information on planning, design and operation of an aquaponic system. Colour photos and diagrams accentuate the text, providing a detailed look at aquaponic systems and technology.

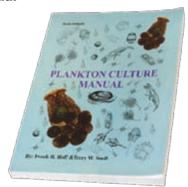
Rebecca L. Nelson and John S. Pade, 2008. Softcover, 218 pages. \$67.00 BE15♦

Plankton Culture Manual

An excellent book on culturing microalgae, rotifers, ciliates, Artemia and Daphnia. This is a must have book if you want to raise your own fish food. Great for both hobbyists and commercial fish farms. Frank Hoff and Terry W. Snell. 1989. 126 pages, 5th edition.

\$65.55

WQB32

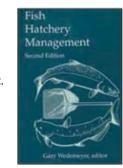


Fish Hatchery Management

This is a must have book, covering a wide variety of subjects, from setting up a hatchery through feeding, hatchery operation, fish health, water quality and transportation. Many useful charts. US Fish and Wildlife Service, 1992. Softcover, 515 pages.

WQB28♦ \$110.25

FISH DISEASE



Fish Disease:

Diagnosis and Treatment

Regarded as one of the most comprehensive reference books available regarding fish diagnostics. Chapters include: Methods for Diagnosing Fish Disease; Equipping a Fish Disease Diagnostic Lab; Postmortem Techniques; Clinical Decision Making; Treatment Guidelines; and Pharmacopoeia. Edward J. Noga, 1998. Hardcover, 378 pages.

WQB90 \$215.70

Aquaculture Production Systems

Published with the World Aquaculture Society, Aquaculture Production Systems captures the huge diversity of production systems used in the production of shellfish and finfish in one concise volume that allows the reader to better understand how aquaculture depends upon and interacts with its environment. The systems examined range from low input methods to super-intensive systems. Divided

into five sections that each focus on a distinct family of systems, Aquaculture Production Systems serves as an excellent text to those just being introduced to

aquaculture as well as being a valuable reference to well-established professionals seeking information on production methods. James H. Tidwell, 2012.

REFB2

Practical Genetics For Aquaculture

Over recent years there have been major advances in the application of molecular, biotechnological and genetic techniques to a wide range of aquatic species. Until now, many working in a hands-on capacity

in the area of aquaculture have not known what the benefits of this work could be to them. This important new book redresses this situation, providing clear details of the available scientific information and the direct application of techniques under simple and practical situations. C. Greg Lutz, 2001.

REFB5 \$263.92

Aguaculture Engineering

Aquaculture engineering requires knowledge of the many general aspects of engineering such as material technology, building design and construction, mechanical engineering and environmental engineering. In this comprehensive book, Odd-Ivar Lekang introduces these principles and demonstrates how such technical knowledge AQUACULTURE

can be applied to aquaculture systems. Fish farmers and other personnel involved in the aquaculture industry, suppliers to the fish farming business and designers and manufacturers will find this book an invaluable resource. Odd-Ivar Lekang, 2007.

REFB10 \$415.92



Developed to be a practical guide to intensive aguaculture for the practicing aquaculturist, this book is the reference text for the popular Cornell University and Freshwater Institute's Short Course on Recirculating Aquaculture Systems (RAS). Contents include basic principles behind biofilter systems, gas conditioning equipment, solids capture, waste treatment and management, culture vessel design, pumps and fluid mechanics, control and monitoring systems,

building standards, ventilation and heating requirements, biosecurity and engineering economics. Book lists a website with programs to perform most necessary engineering calculations. Hardcover, 975 pages. Michael B. Timmons (Cornell University), James Ebeling (Freshwater Institute, the Conservation Fund) and Fredrick W. Wheaton (University of Maryland).

WQB109♦ \$213.75

Fundamentals of Aquaculture

An excellent step by step guide to commercial aquaculture, general enough for the beginner but comprehensive enough for the experienced aquaculturist. Covers a wide range of topics, from site and species selection to water management, harvesting and even marketing! Over 280 photos. Book contains study questions and a reference section at the end of each chapter. James W. Avault, Jr., Ph.D., 1996. Softcover, 889 pages.

WQB29 \$160.65

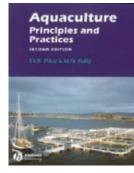
Aquaculture Principles Practices

Covering all aspects of subsistence and commercial aquaculture as practiced across the globe, this fully revised new edition from two leading world authorities in the field is set in two parts: principles and practices. Essential new facts and data have been included throughout. This comprehensive work is an essential purchase for

all those studying aquaculture and is available source of reference for all personnel involved in the aquaculture industry; including those working in fish farms, research institutions, teaching posts in universities and commercial establishments such as aquaculture equipment and feed supply companies. 2nd Edition. Dr. T.V.R. Pillay, 2005.

REFB4

Practical Genetics



Culture Of Cold Water-Marine Fish

This book reviews the current and potential future situation concerning the major exploited marine fish species, such as cod, haddock, hake, wolf-fish, halibut, turbot and sole. The editors of Culture of Cold-Water Marine Fish have drawn together and carefully edited chapters from a wide range of international scientists. The contents list includes detailed reviews of abiotic factors, microbial interactions,

prophylaxis and disease, live food and first feeding technologies, brood stock and egg production, functional development, weaning and nursery, on-growing to market size, status and perspectives for the species covered, stock enhancement and sea ranching, and an analysis of the finances, economics and markets for the fish species used in marine aquaculture. Erlend Moskness, 2004.



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