

Complete Setup for Raising Salmon

The following narrative will lead you through what is needed to have a successful experience raising salmon from eggs to releasing fry. Material costs were obtained from the internet on October 5, 2023 and may vary with time. Some of the items were currently “on sale.”

We have to emphasize that this information is a guide, and not a recommendation on which products to buy. Products highlighted in yellow are those that SIS-Seattle is currently purchasing for underserved schools that we serve.

The cost of setup from scratch will vary from \$1,200 to \$2,000 depending on the options made.

Equipment and supplies required to raise salmon in the school:

Chiller	Required to maintain temperature down to at least 47° F.
Pump	Required to circulate water through chiller. Note: earlier wand chillers do not require a pump, but these chillers are aging out.
Hoses	Attach the pump and chiller to the tank.
Tank	Recommend 55 gallon tank. Acrylic tanks are lighter than glass but are quite a bit more expensive.
Tank Stand	If the chiller is to be placed under the stand, you must allow for good air flow. The chiller can be placed next to the stand elevated off the floor to reduce dust collecting on the coils.
Filter	Filters can be canisters placed outside the tank or hung on the back of the tank. Canister filters provide better filtration and allow for more media variety. Canister filters are more expensive.
Filter Media	Buy media for the type of filter that you have. This can include carbon, zeolite, porcelain and filter pads.
Aeration	Large enough to power two air stones. The aerator can be ac power only, but having an aerator with battery backup will provide air during power loss.
Air Stone	Several choices are available for air stones. Having at least one that includes a sponge filter will provide filtration when combined with a battery backup aerator.

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| Equipment | <ul style="list-style-type: none"> ● Five-inch fish net with twenty-inch handle. ● Thermometer. Can be floating or sticks to glass. ● Gravel. This can be optional. Gravel must be clean gravel for aquariums. ● Five-gallon dedicated bucket. ● Large gravel vacuum. ● Glass cleaner – NOTE: Different type for glass and acrylic. |
| Water Quality | <ul style="list-style-type: none"> ● API® Freshwater Aquarium Master Test Kit. ● Dechlorinator. ● Ammonia reducer. ● Bacteria augmentation. ● pH modifier. |
| Food | <ul style="list-style-type: none"> ● Hatchery provided food. ● Flake food. ● Dried or frozen bloodworms. |

Sources

SIS-Seattle does not endorse the products or retailers. The following are some, but not all, available sources for equipment and supplies. Check your local aquarium shops and the internet.

- BR BulkReefSupply.com
- CH Chewy.com
- DN Dannermfg.com
- DF Dreamfishtanks.com
- FD FishTanksDirect.com
- HW Local hardware store
- MR MarineandReef.com
- PC Petco.com
- PS PetSmart.com
- PU PondUSA.com
- FP [That Fish Place](http://ThatFishPlace)
- AM Amazon.com
- AT Aquatop.com

Local Sources

- The Fish Store, Lake City
- A Place for Pets, Burien
- Sierra Fish & Pets, Renton
- PetCo, Various Locations
- PetSmart, Various Locations
- [Aquarium Co-Op, Edmonds](http://AquariumCoOp.com)

- Make sure that you know the return policies.
- Size the stand to the tank and the fit for chiller and canister filter.
- If you buy a used tank, be sure that it doesn't leak.

Costs as of April 2024 links shown in blue

Chiller

Source	Model	Item	Cost
BR	DBA-075	JBJ Arctica Titanium Chiller 1/10HP, DBA-075(1/2 ID hose)	\$ 696.34
MR	DBA-075	JBJ Arctica Titanium Chiller 1/10HP, DBA-075(1/2 ID hose)	\$ 696.34

Pump

Source	Model	Item	Cost
DN	02515	Aqua-Mag 500 gph (Model 5) Magnetic Drive Water Pump *	\$ 90.99
FP	02515	Aqua-Mag 500 gph (Model 5) Magnetic Drive Water Pump *	\$ 81.99
HW	800229	3/4" threaded / 1/2" barbed fitting	\$ 2.85

* Need filter on inlet such as [HuYaYa Pre-Filter Sponge](#) from Amazon or [Pre-Filter Sponge from Aquarium Co-Op](#) Large size.

Hoses

Source	Model	Item	Cost
HW	Black* Vinyl	20 feet 1/2 inch ID	\$ 13.42
HW		(3) Hose Clamp, stainless steel 1/2" - 1 1/4"	\$ 6.54
MR	RCPR10752	U Tube Directional Return 5/8" - 3/4"	\$ 8.03

* Can be clear, but keep out of excessive light to prevent growth in tubing.

Tank

Source	Model	Item	Cost
DF	CLF-55S	Clear-for-life rectangle 55S acrylic aquarium 48" x 13" x 20" (55 gallons)	\$ 575.00
PC	Aqueon	55 Glass Aquarium (not used for reptiles) 48.75" x 14" x 21.25"	\$ 159.99

Tank Stand

Source	Model	Item	Cost
PC	2572820	Imagitarium Brooklyn 55 Gallon Metal Tank Stand	\$ 149.99
Local		Strong table with adequate ventilation. If the chiller is to be placed under the stand, you must allow for good air flow.	?

Be sure that tank stand fits your tank.

Filter

Source	Model	Item	Cost
*	CCF3UL	Penn Plax Cascade Canister Filter 1000, under tank	\$ 132.09
*	CCF4UL	Penn Plax Cascade Canister Filter 1200, under tank	\$ 172.43
*		Marineland Emperor PRO 450 Hangs on back	\$ 87.65
*		Fluval AquaClear 110/500 Aquarium Power Filter	\$ 91.47

* Shop around for the best price.

Filter Media

Source	Model	Item	Cost
*		Filter pads	varies
*		Carbon	varies
*		Zeolite	varies
*		Porcelain	varies

* Shop around for the best price.

Aeration

Source	Model	Item	Cost
AM*	B098QRTN7V	AquaMiracle USB rechargeable 120gal, ac backup	\$ 23.99
Co-Op		Aquarium Co-Op Dual Outlet	\$ 39.99
AM*	Whisper 100	Tetra Whisper air pump	\$ 15.98

* Shop around for the best price.

Air Stone

Source	Model	Item	Cost
*		Airstones – at least 2 or mix with sponge filter	\$ 10.00
AT *	CAF-60	AquaTop CAF-60 Internal Sponge Filter, Up to 60G	\$ 12.99

* Shop around for the best price.

Equipment

Source	Model	Item	Cost
*		Five-inch fish net with twenty-inch handle.	\$ 7.00
*		Thermometer. Can be floating or sticks to glass.	\$ 4.00
*		Gravel. This can be optional. Gravel must be clean natural gravel for aquariums – No colored gravel.	\$ 20.00
HW*		(2) Five-gallon dedicated bucket.	\$ 16.00
*		Large gravel vacuum.	\$ 20.00
*		Glass cleaner – NOTE: Different type for glass and acrylic.	\$ 10.00

* Shop around for the best price.

Water Quality

Source	Model	Item	Cost
AM *		API® Freshwater Aquarium Master Test Kit.	\$ 32.39
*		Dechlorinator.	
		API Stress Coat	\$ 4.98
		Prime	\$ 3.52
*		Ammonia reducer	
		Zeolite in filter media.	\$ 4.00
		Various products available	?
*		Bacteria augmentation.	
		SafeStart	\$ 17.00
		API Quick Start	\$ 8.50
		API Stress Zyme	\$ 5.78
*		pH modifier	
		Baking soda	\$ 1.00
		API pH Up	\$ 6.98
		API pH down	\$ 5.79

* Shop around for the best price. There are many products and sizes available. We do recommend that you use the API Freshwater Aquarium Master Test Kit.

Food

Source	Model	Item	Cost
*		Hatchery provided food	\$ 0.00
*		Flake food	\$ 7.00
*		Dried or frozen bloodworms	\$ 10.00

* Shop around for the best price. There are many products and sizes available.