

Final Budget

Supplier Comparison and Final Budget

Part	Supplier 1	Supplier 2	Selected	Reason
10-qt hard cooler	Walmart - Ozark Trail 10 qt - \$11.23	SHEIN - 10 qt hard cooler - \$10.02	Walmart - \$11.23	Known 10-qt/14-can cooler and easier to document/source.
12-V, 240 L/hr submersible pump, Qty. 2	Walmart - Opvise 240 L/hr - \$6.34 ea.	eBay - 12-V 240 L/hr pump - \$9.29 ea.	Walmart - \$12.68 total	Lowest price while meeting the 240 L/hr-per-pump design rating.
6-can carrier	MoreWine - recycled HDPE carrier - \$0.89	WebstaurantStore - PakTech - \$0.23 ea. in bulk	MoreWine - \$0.89	Better single-device purchase; PakTech is better for mass production quantities.
Clear acrylic divider, about 1/8 in.	Walmart - 12 x 12 x 1/8 in. - \$17.58	Home Depot - 12 x 48 x 1/8 in. - \$26.36	Walmart - \$17.58	Lower purchase cost and sufficient material for the divider.
About 8-mm ID clear tubing	Home Depot - 5/16 in. ID x 10 ft - \$5.02	Walmart - 8 mm ID x 11 mm OD x 2.5 m - \$10.99	Home Depot - \$5.02	5/16 in. is approximately 7.94 mm and closely matches the pump outlet.
8-mm bulkhead fittings, Qty. 2	eBay - 8-mm bulkhead fitting - \$2.00 ea.	FasParts - stainless 8-mm fitting - \$12.08 ea.	eBay - \$4.00 total	Lower-cost option is adequate for the low-pressure water system.
Hook-and-loop retaining straps	Home Depot - Wrap-It 13 in., 2-pack - \$5.00	Ace - Wrap-It 13 in., 2-pack - \$5.99	Home Depot - \$5.00	Two straps are sufficient to secure the removable carrier.
#8 x 3/4-in self-tapping screws	Home Depot - Everbilt 4-pack - \$1.28	Lowe's - Hillman 4-pack - \$1.98	Home Depot - \$1.28	Provides the four required fasteners at the lower cost.
Clear silicone sealant	Walmart - Gorilla 2.8 oz - \$6.34	Home Depot - Gorilla 10 oz - \$9.84	Walmart - \$6.34	Smaller tube is sufficient for sealing penetrations.
Plastic-bonding adhesive	Home Depot - Loctite Plastics Bonding System - \$4.98	Ace - Loctite Plastics Bonding System - \$5.59	Home Depot - \$4.98	Lower price and suitable for permanent plastic/divider joints.
12-V rechargeable battery + charger/splitter	eBay - 12V DC Rechargeable Lithium-ion Battery Portable Battery Pack w/ Charger Switch, DC-12300 3000 mAh - \$19.99	Walmart - 12-V 3000 mAh pack - \$35.99	eBay - \$19.99	Documented 12-V power source and includes the accessories needed to operate both pumps.