

Closed Loop Diffusion Pump Cooling System Build Expenditures Report

Item	Supplier	Quantity	Cost (Per Part)	Shipping	Total	Estimated Cost New (Per Part)	Estimated Cost Total	Cost Savings Total
12vdc 5 GPM Water Pump	eBay	4	\$ 18.00	\$ 8.50	\$ 80.50	\$ 90.00	\$ 368.50	\$ 288.00
x2 Pack Aluminum R360 Computer Heatsink	eBay	1	\$ 55.16	\$ -	\$ 55.16	\$ 100.00	\$ 100.00	\$ 44.84
EDPM 1/4" ID, 3/8" OD 10ft. Tubing	McMaster-Carr	1	\$ 7.10	\$ -	\$ 7.10	\$ 7.10	\$ 7.10	\$ -
EDPM 3/8" ID, 1/2" OD 10ft. Tubing	McMaster-Carr	1	\$ 8.40	\$ -	\$ 8.40	\$ 8.40	\$ 8.40	\$ -
EPDM 3/8" ID, 1/2" OD 25ft. Tubing	McMaster-Carr	1	\$ 21.00	\$ 8.20	\$ 29.20	\$ 21.00	\$ 29.20	\$ -
EDPM 1/2" ID, 5/8" OD 5ft. Tubing	McMaster-Carr	2	\$ 9.45	\$ -	\$ 18.90	\$ 9.45	\$ 18.90	\$ -
EDPM 3/4" ID, 1" OD 2ft. Tubing	McMaster-Carr	3	\$ 7.62	\$ -	\$ 22.86	\$ 7.62	\$ 22.86	\$ -
EPDM 1 1/4"ID, 1 1/2"OD 2ft. Tubing	McMaster-Carr	1	\$ 11.36	\$ 8.20	\$ 19.56	\$ 11.36	\$ 19.56	\$ -
12VDC High Flow PC Cooling Fans	Free	15	\$ -	\$ -	\$ -	\$ 15.00	\$ 225.00	\$ 225.00
Water to Air Copper Heat Exchanger	eBay	1	\$ 39.00	\$ -	\$ 39.00	\$ 39.00	\$ 39.00	\$ -
5 Quart Water Tanks	US Plastics Corp	2	\$ 9.00	\$ 13.57	\$ 31.57	\$ 9.00	\$ 31.57	\$ -
Nylon Unvented Water Tank Caps	US Plastics Corp	2	\$ 1.93	\$ -	\$ 3.86	\$ 1.93	\$ 3.86	\$ -
1" Nylon Square Bar	US Plastics Corp	1	\$ 12.52	\$ -	\$ 12.52	\$ 12.52	\$ 12.52	\$ -
3/8" Nylon Jaco Bulkhead Fitting	US Plastics Corp	3	\$ 1.78	\$ -	\$ 5.34	\$ 1.78	\$ 5.34	\$ -
3/4" Nylon Jaco Bulkhead Fitting	US Plastics Corp	3	\$ 4.94	\$ -	\$ 14.82	\$ 4.94	\$ 14.82	\$ -
1/4 MNPT to 3/8 Hose Nylon Fitting	US Plastics Corp	14	\$ 0.40	\$ -	\$ 5.60	\$ 0.40	\$ 5.60	\$ -
3/4"OD x 11/16"ID x 5' Nylon Tube	McMaster-Carr	1	\$ 6.37	\$ -	\$ 6.37	\$ 6.37	\$ 6.37	\$ -
3/8"OD x 5/16"ID x 5' Nylon Tube	McMaster-Carr	1	\$ 3.19	\$ -	\$ 3.19	\$ 3.19	\$ 3.19	\$ -
2'x4'x0.5" MDF	Home Depot	1	\$ 11.95	\$ -	\$ 11.95	\$ 11.95	\$ 11.95	\$ -
6-32 Stainless Steel 3/4" Bolt, 100 Pack	Home Depot	1	\$ 5.44	\$ -	\$ 5.44	\$ 5.44	\$ 5.44	\$ -
6-32 Washers	Home Depot	1	\$ 2.21	\$ -	\$ 2.21	\$ 2.21	\$ 2.21	\$ -
6-32 Nuts, 30 Pack	Home Depot	1	\$ 5.87	\$ -	\$ 5.87	\$ 5.87	\$ 5.87	\$ -
3/8-18 NPT Tap	Amazon	1	\$ 8.50	\$ -	\$ 8.50	\$ 8.50	\$ 8.50	\$ -
1/4-18 NPT Tap	Amazon	1	\$ 5.00	\$ -	\$ 5.00	\$ 5.00	\$ 5.00	\$ -
1/2-14 NPT Tap	Amazon	1	\$ 8.99	\$ -	\$ 8.99	\$ 8.99	\$ 8.99	\$ -
1/4-20 x 1.5" Bolts, 15 Pack	Home Depot	2	\$ 4.21	\$ -	\$ 8.42	\$ 4.21	\$ 8.42	\$ -
1/4-20 Nuts, 100 Pack	McMaster-Carr	1	\$ 5.98	\$ -	\$ 5.98	\$ 5.98	\$ 5.98	\$ -
1/4-20 Washers, 100 Pack	McMaster-Carr	1	\$ 4.50	\$ -	\$ 4.50	\$ 4.50	\$ 4.50	\$ -
8" Black Cable Ties, 100 Pack	Ace Hardware	1	\$ 4.00	\$ -	\$ 4.00	\$ 4.00	\$ 4.00	\$ -
4" Black Cable Ties, 100 Pack	Ace Hardware	1	\$ 6.49	\$ -	\$ 6.49	\$ 6.49	\$ 6.49	\$ -
3/4" to 1 3/4" Hose Clamps	Home Depot	4	\$ 0.98	\$ -	\$ 3.92	\$ 0.98	\$ 3.92	\$ -
3" Hose Clamps	Home Depot	5	\$ 0.98	\$ -	\$ 4.90	\$ 0.98	\$ 4.90	\$ -
1 Gallon Distilled Water	Walmart	4	\$ 0.89	\$ -	\$ 3.56	\$ 0.89	\$ 3.56	\$ -
3/8" to 7/8" Hose Clamps	Home Depot	20	\$ 0.94	\$ -	\$ 18.80	\$ 0.94	\$ 18.80	\$ -
Armacell 1" x 6" Rubber Self Seal Pipe Insulation	Home Depot	1	\$ 7.63	\$ -	\$ 7.63	\$ 7.63	\$ 7.63	\$ -
Armacell 1/2" x 6" Rubber Self Seal Pipe Insulation	Home Depot	1	\$ 5.63	\$ -	\$ 5.63	\$ 5.63	\$ 5.63	\$ -
1 Gallon Inhibited Glycol	ChemWorld	1	\$ 39.99	\$ -	\$ 39.99	\$ 39.99	\$ 39.99	\$ -
TOTAL EXPENDITURES	\$ 525.73							
PROJECTED COST SAVINGS	\$ 557.84							