

<b>Purchased Parts</b>						
Part	Source	Part # or link	Price*	Quantity	Price x Qty	
Bolt-together framing	McMaster-Carr	4664T12	\$7.63	2	\$15.26	
PVC Bar	McMaster-Carr	8740K23	\$12.66	5	\$63.30	
4" PVC Pipe	Lowe's	294919	\$9.13	4	\$36.52	
4" PVC Flat cap	Home depot	100172701	\$2.44	4	\$9.76	
12v Motor	Amazon	<a href="https://www.amazon.com/gp/pr">https://www.amazon.com/gp/pr</a>	\$14.52	2	\$29.04	
Speed controller	Amazon	<a href="https://www.amazon.com/gp/pr">https://www.amazon.com/gp/pr</a>	\$12.99	1	\$12.99	
3/8" bolt (100 pack)	McMaster-Carr	91309A622	\$8.49	1	\$8.49	
3/8" nut (100 pack)	McMaster-Carr	90473A031	\$5.76	1	\$5.76	
1/4-20 locknut 100 pack	McMaster-Carr	90640A129	\$4.27	1	\$4.27	
1/4-20 2" screw 50 pack	McMaster-Carr	91309A550	\$7.03	1	\$7.03	
wired DC jack (10 pack)	Amazon	<a href="https://www.amazon.com/dp/B0">https://www.amazon.com/dp/B0</a>	\$5.99	1	\$5.99	
1/4-20 nut (100 pack)	McMaster-Carr	90473a029	\$3.03	1	\$3.03	
Ratchet tiedown (4pk)	Home depot	<a href="https://www.homedepot.com/p/">https://www.homedepot.com/p/</a>	\$10.97	1	\$10.97	
Bucket heater	Amazon	<a href="https://www.amazon.com/gp/pr">https://www.amazon.com/gp/pr</a>	\$43.99	1	\$43.99	
Mark II 25 Watt wort pump	William's Brewing	<a href="https://www.williamsbrewing.com">https://www.williamsbrewing.com</a>	\$69.99	1	\$69.99	
Temp. Controller	Amazon	<a href="https://www.amazon.com/dp/B0">https://www.amazon.com/dp/B0</a>	\$32.99	1	\$32.99	
5 Gallon bucket	Home depot	<a href="https://www.homedepot.com/p/">https://www.homedepot.com/p/</a>	\$3.81	1	\$3.81	
push connect fitting	McMaster-Carr	9406T25	\$3.07	6	\$18.42	
steel tubing	McMaster-Carr	8989K451	\$9.30	3	\$27.90	
Barbed tubing adapter (10)	McMaster-Carr	5372K174	\$13.68	1	\$13.68	
PE Tubing (25ft)	McMaster-Carr	5384K556	\$9.25	1	\$9.25	
				Totals:	\$212.41	without heat system
					\$432.44	with heat system

<b>Frame drill guide</b>							
equiv hole number	inches						
3	2.25						
11	8.25						
15	11.25						
16	12.00						
32	24.00						
47	35.25						