Part #	Part Name	Qty	Description	Function	Material	Dimensions	Cost	Links to Cost Estimate
1	Plexiglass	8	Sheets of Plexiglass	Structure the chamber	Glass	12inx12in	$9	https://www.amazon.com/Plexiglass-12-Clear-Acrylic-Sheet/dp/B01NBVKDPD
2.0	Mega 2560	1	Arduino Board	Reads pressure	Plastic	4inx2in	$38.50	https://store.arduino.cc/usa/mega-2560-r3
2.1	BMP 280	1	A small sensor that reads pressure.	Connects the wires to the board	Plastic	0.8inx1.4in	$11.90	https://store.arduino.cc/usa/grove-barometer-sensor-bmp280
2.2	Jumper Wires	4	Wires with two ends	Connects BMP 280 to Mega 2560	Plastic and brass	6.10in	$3.84	https://store.arduino.cc/usa/10-jumper-wires-150mm-male
3	Epoxy	8	Bottles	Connect the sheets of plexiglass together	Glue	.85 ounce	$10	https://www.amazon.com/Gorilla-Epoxy-Minute-ounce-Syringe/dp/B01M7VD07W/ref=sr_1_sc_2?s=industrial&ie=UTF8&qid=1549237961&sr=1-2-spell&keywords=epoxy%2Bgorillia&th=1
4	Valve Stems	4	Pressure Transducer	Controls the amount of air that goes in.	Nickel	1-1/4in	$8	https://www.amazon.com/VTR-TR-416-S-Outer-Mount-Metal/dp/B01BRVCQ7K/ref=zg_bs_3152432011_2?_encoding=UTF8&psc=1&refRID=VTFRRCMG3KQ4R1Q1AX8T
5	Plexiglass Cutter	1	Steel blade	Cuts Plexiglass	Steel	7.9inx3.7inx1.2in	$6.50	https://www.amazon.com/Red-Devil-1170-Plexiglass-Cutting/dp/B000BZZ1D0/ref=sr_1_9?hvadid=323168400638&hvdev=c&hvlocphy=9060078&hvnetw=g&hvpos=1t1&hvqmt=b&hvrand=13012760874514944019&hvtargid=kwd-402330189991&keywords=sheet+glass+cutter&qid=1551297109&s=gateway&sr=8-9&tag=googhydr-20
6.0	Pinecone Vent	4	3D printing at cline library	Vents the air	Plastic	8inx8in	$66.63	https://nau.edu/library/3d-printing/
6.1	Termite Vent	1	Free 3D printing at 3D Systems	Vents the air	48HTR, SLA Polycarbonate-like	8inx8in	$0	https://www.3dsystems.com/
6.2	Fibonacci Sequence Vent	3	Free 3D printing at 3D Systems	Vents the air	48HTR, SLA Polycarbonate-like	7.5inx7.5in	$0	https://www.3dsystems.com/
6.3	Flower Vent	3	Free 3D printing at 3D Systems	Vents the air	48HTR, SLA Polycarbonate-like	7inx7in	$0	https://www.3dsystems.com/
7	Plexiglass	1	Sheet of plexiglass		Glass	7/8inX23in	$13.48	https://www.homedepot.com/p/LEXAN-12-in-x-24-in-x-093-in-Clear-Polycarbonate-Sheet-GE-33/202038063
8	Weather Stripping	1	Installation connect to the trapdoor	Airtightness	Plastic	1/4inx17ft	$7.96	https://www.homedepot.com/p/M-D-Building-Products-1-4-in-x-17-ft-Storm-Door-and-Window-Replacement-Weather-Stripping-04267/100353463
9	Hinge	3	Connect to walls	Actuation	Steel	3-1/2 in. x 5/8 in.	$2.79	https://www.homedepot.com/p/Crown-Bolt-3-1-2-in-x-5-8-in-Satin-Nickel-Radius-Door-Hinge-20824/205338344
10	Release Latch	2	Releases the air from chamber	Releasing air	Aluminum	1.25in Diameter	$20.49	https://www.amazon.com/dp/B07HFXR4W7/ref=sspa_dk_detail_2?psc=1&pd_rd_i=B07HFXR4W7&pd_rd_w=CB1H2&pf_rd_p=46cdcfa7-b302-4268-b799-8f7d8cb5008b&pd_rd_wg=7MBhu&pf_rd_r=VBRQ9HZ3J52757429JT5&pd_rd_r=8690c067-6089-11e9-bb40-b11ab2c84204
						Budget	$700	
						Total Expenses	~$350	
						Total cost estimate	$199.09	