ShieldMission Oxikit BOM \$699 OxiKit Bundle + \$340.60 Other stores = \$1.039.60

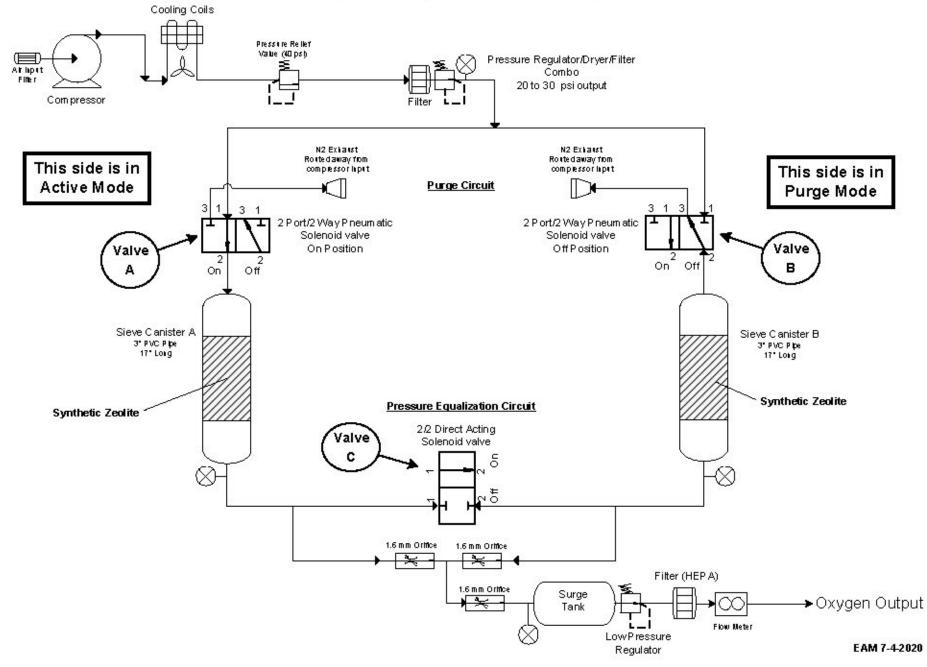




Description	SKU	Qty Needed	In Oxikit Bundle	Other Supplier Unit Price	Other Supplier (Extended Price)
VALVES & REGULATORS					,
3/8" NPT 3-Way Solenoid Valve, 12 V DC	OXI-VAR-SOL	2	2		
Direct Acting Solenoid Valve 1/4" ports 12 V DC	OXI-VAR-DAS	1	1		
High Pressure Regulator 3/8" NPT 150PSI	OXI-VAR-HPR	1	1		
Low Pressure Regulator 3 to 30PSI	OXI-VAR-LPR	1	1		
Pressure Gauge 1/4" NPT Back, 0-60psi (Back Mount)50mm Axial iron shell integrated pressure gaugechroming shell, brass back connection,	OXI-VAR-PGB	2	2		
dia. 50 mm.NPT1/4, accuracy 2.5%. 3-30LPM LZQ-7 Oxygen Air Gas Flowmeter	OXI-VAR-OGF	1	Not in Bundle	\$16.89	\$16.89
FITTINGS					
3/8" Male NPT to 3/8"Push to Connect - Strait	OXI-FIT-STR	3	3		
3/8" Male NPT to 3/8"Push to Connect - 90 Elbow	OXI-FIT-ELB	12	12		
3/8"Push to Connect to 3/8"Push to Connect - Tee	OXI-FIT-TEE	6	6		
3/8"Push to Connect to 3/8"Push to Connect to 3/8"Push to Connect - Y	OXI-FIT-WYE	1	1		
1/4" Male NPT to 3/8" Push to Connect - 90 Elbow	OXI-FIT-MEL	2	2		
1/4" Male NPT to 3/8" Push to Connect - Strait	OXI-FIT-MST	4	4		
Brass/Stainless 3/8-Inch tube PTC x 1/4-Inch Male NPT - Coupler	OXI-FIT-BCO	2	2		
Brass 1/4 NPT Female to 1/4" NPT Female - Coupling	OXI-FIT-COU	3	Not in Bundle	\$5.82	\$17.46
Brass 1/2-in NPT Male to 1/4" NPT Female - Adapter Bushing	OXI-FIT-ADB	2	Not in Bundle	·	\$7.98
Brass 1/4" NPT male plug hex or square head	OXI-FIT-HEX	1	Not in Bundle	,	\$7.99
Air pressure safety relief valve 1/4" NPT male set to open at 50 psi	OXI-FIT-APS	1	Not in Bundle		\$8.50
TUBING					
High Density Polyethylene (HDPE) Tubing, 1/4" ID, 3/8" per roll OD (10 Feet Per	OXI-TUB-HDP			A	.
Machine Required- White) Clear Vinyl tube, 1/4" ID, 3/8" per roll OD (2 Feet Per Machine Required - Clear)	OXI-TUB-CVT	1	Not in Bundle Not in Bundle	·	\$15.60 \$14.50
1.5 orifices		3	3	Ψ1σ	Ψ150
BRAIN COMPONENTS					
Arduino Uno Board With Mounting Plate	OXI-BRC-AUB	1	Not in Bundle	\$23.00	\$23.00
Arduino Uno Board Relay Shield 4 relays	OXI-BRC-ABR	1	Not in Bundle	·	\$9.99
12V 40 watt power supply	OXI-BRC-PSP	1	1	ψ3.55	ψ3.33
20 awg Electronics Wire	OXI-BRC-STW	1	1	\$14.99	\$14.99
HEAT/HUMIDITY MANAGEMENT COMPONENTS					
3/8" OD Copper Tubing (Need around 20')	OXI-HMC-CUT	1	Not in Bundle	\$22.67	\$22.67
12V DC 120mm High Speed Cooling Fan	OXI-HMC-HSP	5	5		
Humidifier Water Bottle	OXI-HMC-HWB	1	1		
COMPRESSOR					
Oxikit 2.4HP Free Air Compressor Motor - Oil Free - Ultra Quiet - 300 High Flow LPM	OXI-COM-180	1	1		
MISCELLANEOUS					
Cable Ties 40 pack	OXI-MIS-CAB	40	40		
2" Wheels	OXI-MIS-WHL	1	Not in Bundle	\$17.99	\$17.99
2x4x10 Wood	OXI-MIS-WOD	1	Not in Bundle	\$6.95	\$6.95
3/4" MDF 15.5" x 15.5" (Can also use Plywood)	OXI-MIS-PLY	1	Not in Bundle	\$36.00	\$36.00
1/4" MDF 6" x 4.5" (Can also use Plywood)	OXI-MIS-PLW	1	Not in Bundle	\$8.53	\$8.53
in-line HIPAA Sanitary Air Filter	OXI-MIS-AFL	1	1		
Heat Shrink or Electrical Tape	OXI-MIS-ELT		Not in Bundle		
Solder or Twist Connectors	OXI-MIS-SOL		Not in Bundle		
SIEVE PVC PARTS					
3" Schedule 40 PVC Female Adapter - Socket to FIPT	OXI-SPP-SFI	2	Not in Bundle	\$2.76	\$5.52
3" Schedule 40 PVC Male Adapter - MIPT to Socket	OXI-SPP-MIS	2	Not in Bundle	\$3.42	\$6.84
3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spigot to FIPT	OXI-SPP-SPF	6	Not in Bundle	\$2.36	\$14.16
3/4" x 3/8" Sch 40 PVC Reducer (T.T.) Bushing - MIPT to FIPT	OXI-SPP-MIF	6	Not in Bundle	\$2.36	\$14.16
3" Sch 40 PVC Coupling - Socket to Socket	OXI-SPP-STS	6	Not in Bundle	\$2.56	\$15.36
2" x 3/4" Schedule 40 PVC Reducer Bushing - Spigot to FIPT PVC 3 in. Round Snap-In Floor Drain	OXI-SPP-RBU	2	Not in Bundle	·	\$2.72 \$10.88
TTO S III. NOUND SINDE IN FIGURE DIGITI		4	rvot in bullule	۷.1.۷	γ±0.00
SIEVE INTERNAL PARTS	OVI CID COD	3	2		
2" Diameter x 3" Tall - Compression Springs - 50 lb per inch tension	OXI-SIP-SPR	2	2		
304 Stainless Steel Woven 100 Mesh 0.18mm Hole Disk 75mm	OXI-SIP-MSF	2	2		
304 Stainless Steel Woven 100 Mesh 0.18mm Hole Disk 71mm Non-woven Filter Material - Vent Pegister Filter 4" V 13"	OXI-SIP-MSO	2	2 Not in Rundlo	¢14.00	¢1400
Non-woven Filter Material - Vent Register Filter 4" X 12" Garilla BVC Compat 8 oz. R1594C Medium Redy Prima Glue. One Stop	OXI-SIP-VRF	1	Not in Bundle		\$14.99
Gorilla PVC Cement 8 oz. R1584C Medium Body PrimaGlue, One-Step Rectorseal 25551 8-Ounce No. 5 Pipe Thread Sealant	OXI-SIP-CEM	1	Not in Bundle	·	\$18.11
Reconsear 2000 Los Jonice No. o Pine Torean Sealant	OXI-SIP-REC	1	Not in Bundle	\$8.82	\$8.82

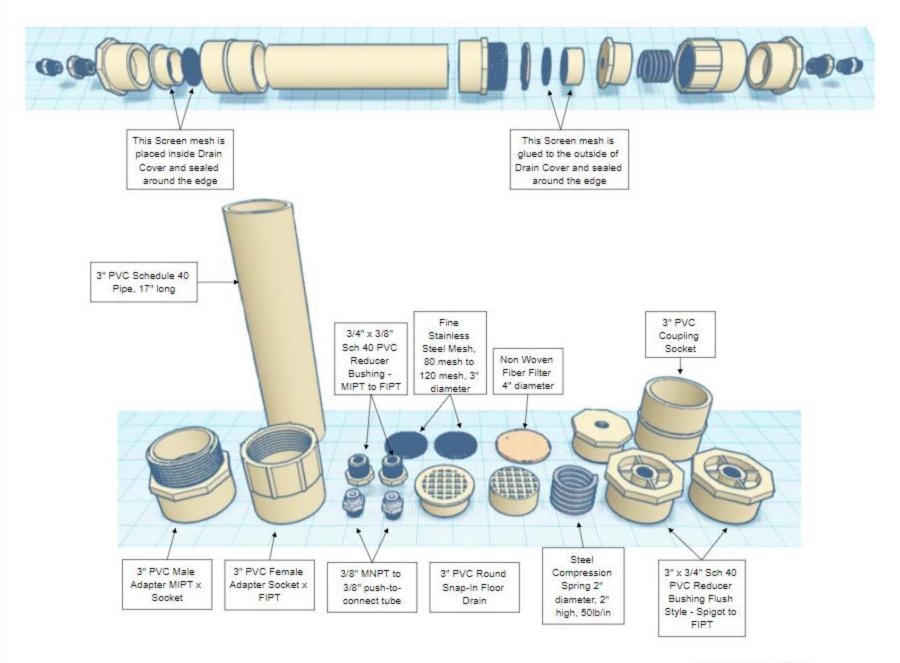
Oxygen Concentrator Circuit Diagram Ver. 4A

(3 port / 2 way valves and Orifices)



Oxygen Concentrator Sieve Assembly - with labels

(Important: PVC parts should be schedule 40 - not DWV)



FLOW CHART	PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
Start	Start	-	-
Insert the Mesh into the PVC Round Snap-in Floor Drain	1) Insert the Fine Stainless Steel Mesh into the PVC Round Snap-in Floor Drain	- Fine Stainless Steel Mesh(80 mesh to 120 mesh - 3" diameter) into the 3" PVC Round Snap-in Floor	-
Glue the items together	2) Place a little dab of super glue (every half inch) on the sides of the Fine Stainless Steel Mesh	- Fine Stainless Steel Mesh(80 mesh to 120 mesh - 3" diameter) into the 3" PVC Round Snap-in Floor	- Super Glue
Inspect the product	3) Inspect if Mesh is securely placed inside the PVC Round in Floor Drain	- Fine Stainless Steel Mesh(80 mesh to 120 mesh - 3" diameter) into the 3" PVC Round Snap-in Floor	-
Smooth the edges of the PVC Pipe	4) Smooth the edges (outside portion) of the PVC Schedule	- PVC Schedule 40 pipe, 17"	- Diburring Tool/cutter/ sander
Inspect the product	5) Inspect the product if the PVC Schedule fits smoothly with the PVC Coupling	- 3" PVC Coupling socket - 3" PVC Schedule 40 Pipe, 17" long	-
A			

FLOW CHART	PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
A			
Put glue on the PVC the schedule and the PVC coupling socket	6) Put glue on the PVC Coupling socket and the PVC Schedule. Put a large amount of glue on the outside of the Male end around 2" (PVC Schedule) and less on the inside of the female end (PVC Coupling Socket).	- 3" PVC Coupling socket into the - 3" PVC Schedule 40 Pipe, 17" long	- Super Glue
Place the PVC Coupling Socket on top of the PVC Schedule	7) Place the PVC Coupling socket on top of the PVC Schedule. Put a little bit of pressure to connect the parts.	- 3" PVC Coupling socket into the - 3" PVC Schedule 40 Pipe, 17" long	-
Clean and wipe excess glue	8) Wipe any excess glue on the PVC	- 3" PVC Coupling socket into the - 3" PVC Schedule 40 Pipe, 17" long	Tissue/Towel
Inspect the product	9) Inspect the product if PVCs are securely connected and if there are any excess glue inside the PVC	- 3" PVC Coupling socket into the - 3" PVC Schedule 40 Pipe, 17" long	-
Dry	10) Let it dry for a few minutes	- 3" PVC Coupling socket into the - 3" PVC Schedule 40 Pipe, 17" long	-
Place the PVC Round Snap-in Floor Drain inside the PVC Coupling socket	11) Place the PVC Round Snap-in Floor Drain (with mesh from step 1) inside the PVC Coupling socket until it bottoms out.	- Fine Stainless Steel Mesh(80 mesh to 120 mesh - 3" diameter) into the 3" PVC Round Snap-in Floor	-
В			

FLOW CHART	PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
В			
Put glue on the PVC Reducer Busing and the PVC coupling socket	12) Put glue on the Reducer Busing, and the PVC Coupling socket (with the PVC round Snap in Floor - mesh inside). Put a large amount of glue on the outside portion of the Male end (Reducer Bushing) and less on the inside of the female end (PVC Coupling Socket).	- 3"x3/4" PVC ReducerBusing, Flush Style- Spig. X FIPT - 3" PVC Coupling socket	- Super Glue
Place the PVC Reducer Bushing on top of the PVC Coupling Socket	13) Place the PVC Reducer Bushing on top of the PVC Coupling Socket. Put a little bit of pressure to connect the parts.	- 3"x3/4" PVC ReducerBusing, Flush Style- Spig. X FIPT - 3" PVC Coupling socket	-
Clean and wipe excess glue	14) Wipe any excess glue on the PVC	- 3"x3/4" PVC ReducerBusing, Flush Style- Spig. X FIPT - 3" PVC Coupling socket	Tissue/Towel
Inspect the product	15) Inspect the product if PVCs are securely connected and if there are any excess glue inside the PVC	- 3"x3/4" PVC ReducerBusing, Flush Style- Spig. X FIPT - 3" PVC Coupling socket	-
Dry	16) Let it dry overnight	- 3"x3/4" PVC ReducerBusing, Flush Style- Spig. X FIPT - 3" PVC Coupling socket	-
Wash the PVC Pipe	17) Wash the inside portion of the PVC	- 3"x3/4" PVC ReducerBusing, Flush Style- Spig. X FIPT - 3" PVC Coupling socket	Tissue/Towel
С			

PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
18) Let it dry for a few minutes	- 3"x3/4" PVC ReducerBusing, Flush Style- Spig. X FIPT - 3" PVC Coupling socket	-
19) Smooth the edges (outside portion) of the other end of the PVC Schedule	- PVC Schedule 40 pipe, 17"	- Diburring Tool/cutter/ sander
20) Glue the PVC Male adaptor Socket into the other open side of the PVC Schedule. Put a large amount of glue on the outside portion of the Male end around 2" (PVC Schedule) and less on the inside of the female end (PVC Male adaptor socket).	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Schedule 40 Pipe, 17" long.	- Super Glue
21) Place the PVC Male adaptor Socket on top of the PVC Schedule. Put a little bit of pressure to connect the parts.	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Schedule 40 Pipe, 17" long.	-
22) Wipe any excess glue on the PVC	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Schedule 40 Pipe, 17" long.	Tissue/Towel
23) Inspect the product if PVCs are securely connected and if there are any excess glue inside the PVC	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Schedule 40 Pipe, 17" long.	-
	19) Smooth the edges (outside portion) of the other end of the PVC Schedule 20) Glue the PVC Male adaptor Socket into the other open side of the PVC Schedule. Put a large amount of glue on the outside portion of the Male end around 2" (PVC Schedule) and less on the inside of the female end (PVC Male adaptor socket). 21) Place the PVC Male adaptor Socket on top of the PVC Schedule. Put a little bit of pressure to connect the parts. 22) Wipe any excess glue on the PVC 23) Inspect the product if PVCs are securely connected and if there are any excess glue inside	18) Let it dry for a few minutes ReducerBusing, Flush Style-Spig. X FIPT - 3" PVC Coupling socket 19) Smooth the edges (outside portion) of the other end of the PVC Schedule 20) Glue the PVC Male adaptor Socket into the other open side of the PVC Schedule. Put a large amount of glue on the outside portion of the Male end around 2" (PVC Schedule) and less on the inside of the female end (PVC Male adaptor socket). 21) Place the PVC Male adaptor Socket on top of the PVC Schedule. Put a little bit of pressure to connect the parts. 21) Wipe any excess glue on the PVC 22) Wipe any excess glue on the PVC 23) Inspect the product if PVCs are securely connected and if there are any excess glue inside the PVC Schedule 40 Pipe, 17" long. 3" PVC Male adaptor MIPT X Socket - 3" PVC Schedule 40 Pipe, 17" long. - 3" PVC Male adaptor MIPT X Socket - 3" PVC Schedule 40 Pipe, 17" long.

FLOW CHART	PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
D			
Dry	24) Let it dry overnight	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Schedule 40 Pipe, 17" long.	-
Put glue on the PVC Reducer Bushing and the PVC female adaptor socket.	25) Glue the PVC Reducer Bushing into the other open side of the PVC Female adaptor socket . Put a large amount of glue on the outside portion of the Male end around 2" (PVC Reducer Bushing) and less on the inside of the female end (PVC female adaptor socket).	- 3"x3/4" Reducer Bushing, Flush Style-Spig. X FIPT - 3" PVC Female adaptor Socket X FIPT.	- Super Glue
Place the PVC Reducer Bushing on top of the PVC female adaptor socket	26) Place the PVC Reducer Bushing on top of the PVC female adaptor socket. Put a little bit of pressure to connect the parts.	- 3"x3/4" Reducer Bushing, Flush Style-Spig. X FIPT - 3" PVC Female adaptor Socket X FIPT.	-
Clean and wipe excess glue	27) Wipe any excess glue on the PVC	- 3"x3/4" Reducer Bushing, Flush Style-Spig. X FIPT - 3" PVC Female adaptor Socket X FIPT.	Tissue/Towel
Inspect the product	28) Inspect the product if PVCs are securely connected and if there are any excess glue inside the PVC	- 3"x3/4" Reducer Bushing, Flush Style-Spig. X FIPT - 3" PVC Female adaptor Socket X FIPT.	-
Dry	29) Let it dry overnight	- 3"x3/4" Reducer Bushing, Flush Style-Spig. X FIPT - 3" PVC Female adaptor Socket X FIPT.	-

FLOW CHART	PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
E			
Place Zeolite inside the PVC assembly	30) Place a considerable amount of Zeolite inside the PVC Pipe, approximately 26mm from the top of the PVC Male adaptor. Please see computation sheet for the computation of the height of the Zeolite.	- Zeolite - PVC Assembly from step 1 to 29	-Funnel -Caliper
Vibrate the Zeolite	31)Ensure to vibrate the bottom side and a little on the top of the PVC assembly	- Zeolite - PVC Assembly	- air hammer with 50 PSI
Place the Fiber Filter on top of the Zeolite	32) Place the Non Woven Fiber Filter on top of the Zeolite	- Non Woven Fiber Filter 4" Diamter - Zeolite - PVC Assembly	-
Place PVC round snap in floor Drain on top of the Fiber Filter	33) Place the PVC round snap in floor Drain (with mesh outside) on top of the non woven Fiber Filter.	- 3" PVC round snap in floor Drain with Lip trimmed - Non Woven Fiber Filter 4" D - Zeolite - PVC Assembly	-
Push the PVC to compress the Zeolite	34) Push the PVC round snap in floor Drain to compress the Zeolite	- 3" PVC round snap in floor Drain with Lip trimmed - Non Woven Fiber Filter 4" D - Zeolite - PVC Assembly	-
Place the spring on top of the PVC round snap	35) Place the spring on top of the PVC round snap in floor Drain	- 3" PVC round snap in floor Drain with Lip trimmed and sanded with mesh - Spring	-
F			

FLOW CHART	PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
F			
Place the cut PVC Round in Floor drain on top of the spacer	36) Place the the cut portion of the PVC Round Snap in Floor Drain with lip on top of the Spigot threaded MPT PVC(spacer)	in Floor Drain with lip - 3" 3/4" x 2" spigot threaded MPT PVC(spacer)	-
Place the cut PVC Round in Floor drain with spacer on top of the srping	37) Place PVC Round Snap in Floor Drain with lipand theSspigot threaded MPT PVC(spacer) assembly on top of the Spring	- 14 1/2 mm PVC Round Snap in Floor Drain with lip - 3" 3/4" x 2" spigot threaded MPT PVC(spacer) - spring	-
Put glue on the Male Thread and Female Thread	38) Put Sealant on the entire Male Thread and lighter on the Female thread	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Female adaptor MIPT X Socket	- Sealant
Place the Female adaptor on top of the Male Adaptor.	39) Place the Female adaptor on top of the Male Adaptor.	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Female adaptor MIPT X Socket	-
Tighten the canister	40) Ensure to tightly seal the canister	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Female adaptor MIPT X Socket	- Belt wrench
Check the gap of the Male and female thread	41) Measure the gap of Male and female thread. Acceptable Gap is 7mm	- 3" PVC Male adaptor MIPT X Socket - 3" PVC Female adaptor MIPT X Socket	- Caliper
G			

FLOW CHART	PROCESS	MATERIAL	MISCELLANEOUS TOOLS/MATERIALS
G			
Screw the canister	42) Seal the top portion of the Canister	- Canister - 3/8 MNPT to 3/8" push to Connect tube	-
Dry	43) Let it Dry overnight	- Canister	-
End	End	-	-