

Pura Vida Air Systems 2008 PCP Compound



Phone 210-867-3500
www.puravidairsystems.com

The Pura Vida Air Systems Compound Populated Catalyst Panel (PCP Compound) is a combination of PCP Standard and Drop-In technologies. This type of panel may be used in all air handlers with sideload, frontload access or rooftop units (RTU's) or in the ductwork. The PCP Compound is a "scalable" technology; it may be engineered for any size air stream using combinations of standard sizes or by designing custom units for the non-standard pathways.

PURA VIDA AIR SYSTEMS Photocatalysis PCO

Providing Environmentally Sound Engineered Solutions for Indoor Air Quality



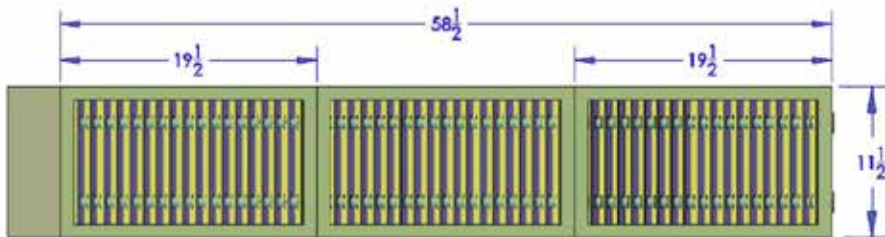
Special Features:

- Non ozone producing lamps
- Multi panel configurations
- Voltage: 115 60 hrtz
- Amps: 1 per panel Average
- Consult PCP Compound Calculator for estimation of panels

Pura Vida Air Systems PCO technology often eliminates the need for costly HEPA and carbon filtration. *Pura Vida Air Systems* units do not produce ozone.



UL FILE NO. E326567 FIFRA 87447-TX-001



PCO

Capture

Step 1: Merv Filtration...

Reduces even particles you can't see. High efficiency, high capacity, low resistance particle filter captures most pollen, mold, mildew, ragweed, dust mites, house dust, bacteria, pet dander and many other submicroscopic poisons, allergens and irritants.

Clean

Step 2: UVGI Lamps...

Pura Vida Air Systems PCO uses ultraviolet light to energize the photocatalyst and cleans surfaces.

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Convert

Step 3: Photocatalysis...

Using Titanium Dioxide energized by UV light, Pura Vida Air Systems PCO produces hydroxyl radicals. Hydroxyl radicals are a natural cleansing agent found in the troposphere. Hydroxyl radicals reduce and oxidize biologics in the air stream such as mold, bacteria and viruses, thus rendering them nonviable. And PCO safely reduces concentrations of VOCs.

PCP Compounds

Pura Vida Air Systems

DIMENSIONAL DATA

A PCP Compound is comprised of PCP Standards connected together with a ballast tray. The designation for this style unit requires two numbers. The first is the height, either 12", 16", 20" or 24". The second number is the nominal length of all PCP Standards built into the unit. The lamps are then inserted through the holes and attached to the ballast tray by Green Sleeves. These are collars permanently mounted to the lamps.

All PCP Compound units are 6" deep nominal; actual dimension is 5 13/16". The catalyst is pleated at one pleat per inch. The ballast tray is incorporated into the unit to house the ballasts internally and to protect the lamps from damage. The table below contains all dimensional data for each of the PCP Compounds. All PCP Compounds are rated at 500 fpm. As residence time is the most critical factor in designing a viable solution, do not exceed 500 fpm. Each panel has a 0.05" H₂O pressure drop @ 500 FPM.

POWER

Ballasts are matched to the specific length of lamp. To maintain tested performance, ballasts may not be substituted with another manufacturer's products. The ballasts must be specified as 120v, 60 Hz. Contact the factory for other voltage/frequency requirements. The ballast operating temperature range is -20°F to 158°F. Power is delivered from Compound to Compound by a metal conduit running through the catalyst panels.

SAFETY

Safety door switches are recommended and there is an option of a Current Killbox (CKB) on duct/AHU units. This CKB switches off the lamps when air pressure drops below 0.15 inches H₂O. It also includes provisions for a door switch circuit and BAS lamp monitoring circuit.

Complete List of PCP Compounds by Pura Vida Air Systems																
PROPRIETARY AND CONFIDENTIAL																
	#	Height	Width	Built From Standards			Actual Height	Total Length	Lamps	Lamp Length	Amp per Lamp	Total Amps	UVC Watts	Approx Weight Gal, lbs.	Approx Weight SS, lbs.	Approx Weight Al, lbs.
1212	1	12	12	12			11.5	14.938	2	12"	0.224	0.45	7	7.348	6.488	5.286
1216	2	12	16	16			11.5	18.938	2	16"	0.296	0.59	9	8.224	7.364	6.162
1220	3	12	20	20			11.5	22.938	2	20"	0.367	0.73	15	9.099	8.239	7.038
1221	4	12	21	21			11.5	24.063	2	20"	0.367	0.73	15	9.335	8.475	7.273
1224	5	12	24	24			11.5	26.938	2	24"	0.519	1.04	18	9.975	9.115	7.913
1228	6	12	28	16	12		11.5	30.438	2	28"	0.604	1.21	21	12.327	11.030	9.218
1232	7	12	32	22	9		11.5	34.438	2	31"	0.659	1.32	24	13.203	11.906	10.093
1233	8	12	33	24	9		11.5	35.938	2	31"	0.659	1.32	24	13.489	12.192	10.379
1236	9	12	36	24	12		11.5	38.438	2	36"	0.752	1.50	27	14.078	12.781	10.969
1237	10	12	37	24	13		11.5	39.688	2	36"	0.752	1.50	27	14.331	13.034	11.221
1240	11	12	40	20	20		11.5	42.438	2	40"	0.844	1.69	30	14.954	13.657	11.845
1241	12	12	41	21	20		11.5	43.563	2	40"	0.844	1.69	30	15.190	13.892	12.080
1244	13	12	44	24	20		11.5	46.438	2	44"	0.908	1.82	32	15.829	14.532	12.720
1245	14	12	45	24	21		11.5	47.563	2	44"	0.908	1.82	32	16.065	14.768	12.956
1246	15	12	46	24	22		11.5	48.938	2	44"	0.908	1.82	32	16.334	15.037	13.225
1248	16	12	48	24	24		11.5	50.438	2	48"	0.981	1.96	36	16.705	15.408	13.596
1252	17	12	52	24	16	12	11.5	53.938	2	51.5"	1.033	2.07	38.5	19.057	17.323	14.900
1253	18	12	53	24	20	9	11.5	55.438	2	51.5"	1.033	2.07	38.5	19.343	17.609	15.186
1256	19	12	56	24	22	9	11.5	57.938	2	55"	1.105	2.21	41	19.933	18.199	15.776
1257	20	12	57	24	24	9	11.5	59.438	2	55"	1.105	2.21	41	20.219	18.485	16.062
1259	21	12	59	21	21	17	11.5	61.688	2	59"	1.17	2.34	44	20.690	18.956	16.533
1260	22	12	60	24	24	12	11.5	61.938	2	59"	1.17	2.34	44	20.808	19.074	16.652
1261	23	12	61	24	24	14a	11.5	63.438	2	59"	1.17	2.34	44	21.095	19.360	16.938
1262	24	12	62	24	24	14b	11.5	64.188	2	59"	1.17	2.34	44	21.280	19.546	17.123
1612	25	16	12	12			15.5	14.938	3	12"	0.224	0.67	7	9.753	8.556	6.883
1616	26	16	16	16			15.5	18.938	3	16"	0.296	0.89	9	10.741	9.544	7.871
1620	27	16	20	20			15.5	22.938	3	20"	0.367	1.10	15	11.730	10.532	8.860
1621	28	16	21	21			15.5	24.063	3	20"	0.367	1.10	15	11.994	10.796	9.124
1624	29	16	24	24			15.5	26.938	3	24"	0.519	1.56	18	12.718	11.521	9.848
1628	30	16	28	16	12		15.5	30.438	3	28"	0.604	1.81	21	15.855	14.030	11.482
1632	31	16	32	22	9		15.5	34.438	3	31"	0.659	1.98	24	16.843	15.019	12.470
1633	32	16	33	24	9		15.5	35.938	3	31"	0.659	1.98	24	17.157	15.333	12.784
1636	33	16	36	24	12		15.5	38.438	3	36"	0.752	2.26	27	17.831	16.007	13.458
1637	34	16	37	24	13		15.5	39.688	3	36"	0.752	2.26	27	18.112	16.288	13.739
1640	35	16	40	20	20		15.5	42.438	3	40"	0.844	2.53	30	18.820	16.995	14.447
1641	36	16	41	21	20		15.5	43.563	3	40"	0.844	2.53	30	19.084	17.259	14.711
1644	37	16	44	24	20		15.5	46.438	3	44"	0.908	2.72	32	19.808	17.984	15.435
1645	38	16	45	24	21		15.5	47.563	3	44"	0.908	2.72	32	20.072	18.248	15.699
1646	39	16	46	24	22		15.5	48.938	3	44"	0.908	2.72	32	20.370	18.545	15.996
1648	40	16	48	24	24		15.5	50.438	3	48"	0.981	2.94	36	20.797	18.972	16.424
1652	41	16	52	24	16	12	15.5	53.938	3	51.5"	1.033	3.10	38.5	23.933	21.482	18.057
1653	42	16	53	24	20	9	15.5	55.438	3	51.5"	1.033	3.10	38.5	24.247	21.796	18.371
1656	43	16	56	24	22	9	15.5	57.938	3	55"	1.105	3.32	41	24.922	22.470	19.045
1657	44	16	57	24	24	9	15.5	59.438	3	55"	1.105	3.32	41	25.236	22.784	19.360
1659	45	16	59	21	21	17	15.5	61.688	3	59"	1.17	3.51	44	25.764	23.312	19.887
1660	46	16	60	24	24	12	15.5	61.938	3	59"	1.17	3.51	44	25.910	23.458	20.034
1661	47	16	61	24	24	14a	15.5	63.438	3	59"	1.17	3.51	44	26.224	23.773	20.348
1662	48	16	62	24	24	14b	15.5	64.188	3	59"	1.17	3.51	44	26.438	23.986	20.562
1728	49	17	28	25			17	28.000	3	24"	0.519	1.56	18	14.000	12.392	10.142
2012	50	20	12	12			19.5	14.938	3	12"	0.224	0.67	7	11.014	9.556	7.518

2016	51	20	16	16			19.5	18.938	3	16"	0.296	0.89	9	12.115	10.657	8.619
2020	52	20	20	20			19.5	22.938	3	20"	0.367	1.10	15	13.217	11.758	9.721
2021	53	20	21	21			19.5	24.063	3	20"	0.367	1.10	15	13.509	12.050	10.013
2024	54	20	24	24			19.5	26.938	3	24"	0.519	1.56	18	14.318	12.859	10.822
2028	55	20	28	16	12		19.5	30.438	3	28"	0.604	1.81	21	17.970	15.770	12.698
2032	56	20	32	22	9		19.5	34.438	3	31"	0.659	1.98	24	19.071	16.872	13.799
2033	57	20	33	24	9		19.5	35.938	3	31"	0.659	1.98	24	19.414	17.214	14.141
2036	58	20	36	24	12		19.5	38.438	3	36"	0.752	2.26	27	20.173	17.973	14.900
2037	59	20	37	24	13		19.5	39.688	3	36"	0.752	2.26	27	20.481	18.282	15.209
2040	60	20	40	20	20		19.5	42.438	3	40"	0.844	2.53	30	21.274	19.074	16.001
2041	61	20	41	21	20		19.5	43.563	3	40"	0.844	2.53	30	21.566	19.366	16.293
2044	62	20	44	24	20		19.5	46.438	3	44"	0.908	2.72	32	22.375	20.175	17.103
2045	63	20	45	24	21		19.5	47.563	3	44"	0.908	2.72	32	22.667	20.468	17.395
2046	64	20	46	24	22		19.5	48.938	3	44"	0.908	2.72	32	22.993	20.793	17.720
2048	65	20	48	24	24		19.5	50.438	3	48"	0.981	2.94	36	23.476	21.277	18.204
2052	66	20	52	24	16	12	19.5	53.938	3	51.5"	1.033	3.10	38.5	27.128	24.188	20.080
2053	67	20	53	24	20	9	19.5	55.438	3	51.5"	1.033	3.10	38.5	27.471	24.530	20.422
2056	68	20	56	24	22	9	19.5	57.438	3	55"	1.105	3.32	41	28.230	25.289	21.181
2057	69	20	57	24	24	9	19.5	59.438	3	55"	1.105	3.32	41	28.572	25.631	21.523
2059	70	20	59	21	21	17	19.5	61.688	3	59"	1.17	3.51	44	29.156	26.216	22.107
2060	71	20	60	24	24	12	19.5	61.938	3	59"	1.17	3.51	44	29.331	26.390	22.282
2061	72	20	61	24	24	14a	19.5	63.438	3	59"	1.17	3.51	44	29.673	26.733	22.624
2062	73	20	62	24	24	14b	19.5	64.188	3	59"	1.17	3.51	44	29.915	26.974	22.866
2412	74	24	12	12			23.5	14.938	4	12"	0.224	0.90	7	13.285	11.527	9.071
2416	75	24	16	16			23.5	18.938	4	16"	0.296	1.18	9	14.499	12.741	10.285
2420	76	24	20	20			23.5	22.938	4	20"	0.367	1.47	15	15.713	13.955	11.500
2421	77	24	21	21			23.5	24.063	4	20"	0.367	1.47	15	16.033	14.275	11.820
2424	78	24	24	24			23.5	26.938	4	24"	0.519	2.08	18	16.927	15.169	12.714
2428	79	24	28	16	12		23.5	30.438	4	28"	0.604	2.42	21	21.229	18.578	14.875
2432	80	24	32	22	9		23.5	34.438	4	31"	0.659	2.64	24	22.443	19.792	16.089
2433	81	24	33	24	9		23.5	35.938	4	31"	0.659	2.64	24	22.814	20.163	16.460
2436	82	24	36	24	12		23.5	38.438	4	36"	0.752	3.01	27	23.657	21.006	17.303
2437	83	24	37	24	13		23.5	39.688	4	36"	0.752	3.01	27	23.994	21.343	17.640
2440	84	24	40	20	20		23.5	42.438	4	40"	0.844	3.38	30	24.871	22.220	18.517
2441	85	24	41	21	20		23.5	43.563	4	40"	0.844	3.38	30	25.192	22.541	18.838
2444	86	24	44	24	20		23.5	46.438	4	44"	0.908	3.63	32	26.085	23.434	19.731
2445	87	24	45	24	21		23.5	47.563	4	44"	0.908	3.63	32	26.406	23.755	20.052
2446	88	24	46	24	22		23.5	48.938	4	44"	0.908	3.63	32	26.759	24.109	20.405
2448	89	24	48	24	24		23.5	50.438	4	48"	0.981	3.92	36	27.299	24.649	20.945
2452	90	24	52	24	16	12	23.5	53.938	4	51.5"	1.033	4.13	38.5	31.601	28.057	23.107
2453	91	24	53	24	20	9	23.5	55.438	4	51.5"	1.033	4.13	38.5	31.972	28.428	23.477
2456	92	24	56	24	22	9	23.5	57.938	4	55"	1.105	4.42	41	32.815	29.272	24.321
2457	93	24	57	24	24	9	23.5	59.438	4	55"	1.105	4.42	41	33.186	29.642	24.691
2459	94	24	59	21	21	17	23.5	61.688	4	59"	1.17	4.68	44	33.827	30.283	25.332
2460	95	24	60	24	24	12	23.5	61.938	4	59"	1.17	4.68	44	34.030	30.486	25.535
2461	96	24	61	24	24	14a	23.5	63.438	4	59"	1.17	4.68	44	34.400	30.856	25.905
2462	97	24	62	24	24	14b	23.5	64.188	4	59"	1.17	4.68	44	34.670	31.126	26.175