



IAQ Solutions

The natural path
to clean air



COMMERCIAL APPLICATION

RESIDENTIAL APPLICATION

2008CU APPLICATIONS GUIDE

COMMERCIAL/RESIDENTIAL

INTRODUCTION

The IAQ Solutions 2008CU is a ducted-in unit used to reduce the levels of airborne biological contaminants and to help keep surfaces clean. The 2008CU uses IAQ Solutions PCP Compound panel(s). It is suitable for air handlers up to 25 tons, and may be custom-sized for your application. The installer would remove a section of duct and flange up to the housing of the CU. Contact IAQ Solutions for custom units. For recommended unit configurations, consult the 2008 Product Calculator supplied with packet. Contact IAQ Solutions if you do not have one. All IAQ Solutions products incorporate 3-step technology: MERV Filtration, UVGI Lamps and Photocatalysis.



Residential Installation

EXAMPLES OF USE

The unit may be utilized in the return of an air handler downstream of filtration to prevent coil buildup, or above the supply, or in the trunk line. The purpose is to reduce the amount of airborne biological contaminants, reduce VOC's and keep exposed surfaces within the unit clean.

2412	74	24 13	13	23.5	14.938	-4	12"	0.224	0.80	7	13.263	11.327	9.071
2416	75	24 18	14	23.5	18.938	-4	14"	0.294	1.18	9	14.999	12.741	10.285
2420	76	24 20	20	23.5	22.938	-4	20"	0.367	1.47	15	15.713	13.925	11.300
2421	77	24 21	21	23.5	24.042	-4	20"	0.367	1.47	15	14.033	14.375	11.800
2424	78	24 24	24	23.5	26.938	-4	24"	0.319	2.08	18	18.927	15.149	12.714
2428	79	24 28	19	23.5	30.438	-4	28"	0.404	2.43	21	21.329	18.378	14.873
2432	80	24 32	22	23.5	34.438	-4	31"	0.519	2.84	24	22.443	19.752	16.029
2433	81	24 33	24	23.5	33.330	-4	31"	0.458	2.64	24	22.614	20.743	16.463
2436	82	24 36	24	23.5	36.438	-4	36"	0.752	3.01	27	29.457	21.006	17.303
2437	83	24 37	24	23.5	39.488	-4	36"	0.752	3.01	27	29.794	21.343	17.440
2440	84	24 40	20	23.5	42.438	-4	40"	0.844	3.38	30	24.671	22.220	18.517
2441	85	24 41	21	23.5	43.562	-4	40"	0.844	3.38	30	23.192	22.541	18.658
2444	86	24 44	24	23.5	46.438	-4	44"	0.906	3.63	32	24.083	23.434	19.731
2445	87	24 43	24	23.5	47.562	-4	44"	0.906	3.63	32	24.404	23.758	20.062
2448	88	24 46	24	22	48.938	-4	44"	0.906	3.63	32	24.729	24.109	20.403
2448	89	24 48	24	23.5	50.438	-4	48"	0.981	3.92	36	27.299	24.646	20.843
2452	90	24 52	24	18	53.938	-4	51.3"	1.033	4.13	38.3	31.401	26.017	23.107
2453	91	24 53	24	20	55.438	-4	51.3"	1.033	4.13	38.3	31.872	26.428	23.407
2456	92	24 56	24	22	57.938	-4	55"	1.103	4.42	41	32.613	29.272	24.321
2457	93	24 57	24	23.5	59.438	-4	55"	1.102	4.42	41	33.186	29.642	24.691
2459	94	24 59	21	23.5	61.438	-4	59"	1.17	4.66	44	33.827	30.283	25.332
2460	95	24 60	24	24	62.438	-4	59"	1.17	4.66	44	34.230	30.484	25.533
2481	96	24 61	24	24	63.438	-4	59"	1.17	4.66	44	34.400	30.854	25.903
2482	97	24 62	24	24	64.188	-4	59"	1.17	4.66	44	34.470	31.136	26.173

Each panel has a 0.05” H₂O pressure drop @ 500 FPM.

LAMPS

IAQ Solutions lamps do not produce ozone! The lamps provide a minimum intensity of 775 microwatts/cm² (5 milliwatts per square inch) at 10.77 centimeters (4.24”) to activate the catalyst effectively. To maintain tested performance, lamps may not be substituted with another manufacturer’s products. These lamps provide UV-C wavelengths @ 254 nm. All lamps must be replaced at 12000 hrs (16 months continuous use) to maintain intensity requirements. IAQ Solutions lamps contain trace amounts of mercury, encapsulated within the lamp and therefore reducing risk to the consumer or ecosphere.

FILTRATION

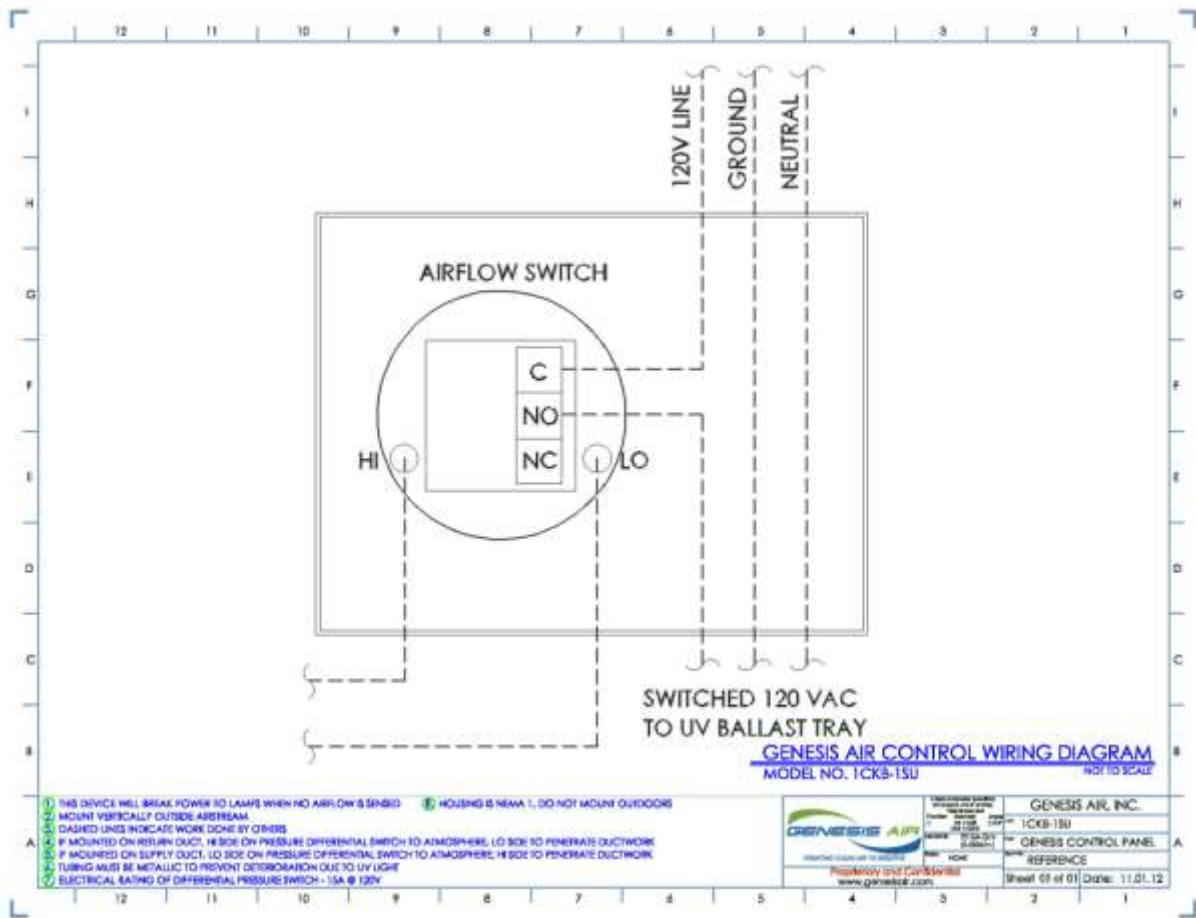
This unit requires the use of filtration. IAQ Solutions recommends the use of MERV 13 filters; however, a minimum of MERV 8 filters may be used where higher static pressures present problems for the air-handler.

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. Genesis provides a junction box that may be hard-wired or with appliance cord by contractor. A fan proofing switch is an option for controlling the lamps.

FAN PROOF SWITCH

In most cases a Dwyer fan proof switch can be your primary control to operate the lamps.



SAFETY

Disconnect power before servicing.

UVC light hazard. UVC light can cause temporary or permanent loss of vision and sunburn. Take proper precautions to protect eyes and skin from direct exposure.

IAQ SOLUTIONS QUICK REFERENCE

		2006D&L	2008DT-FP	2008B	2008LB	2008 PCP COURTLINE	2008CU	
	Small spaces	X	X			X	X	
	Medium spaces		X		X	X	X	
	Large spaces			X	X	X	X	
	Fan-powered	X	X	X				
	Multiple panels standard	X						
	Multiple panels optional			X	X	X		
	Located in:							
	AHU/RTU					X		
	Returns				X	X	X	
	Supplies				X	X	X	
	Trunk lines				X	X	X	
	Curbs					X		
	Stand-alone units	X	X	X				

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