

Test Results at Singapore PreSchool – PCF Sparkletots

ProMedUSA+AtmosAir Model SGMH-882 Installation



VERIFIED TEST RESULTS OF PROMEDUSA BI-POLAR IONIZATION UNIT IN KINDERGARTEN CLASSROOM

	OUTDOOR					KINDERGARTEN CLASSROOM				
	Control	Test 1		Test 2		Control	Test 1 ProMedUSA AirPro-1		Test 2 ProMedUSA SGMH-882	
SAMPLING DATE	12 July 2019	26 July 2019	% CHANGE	13 September 2019	% CHANGE	12 July 2019	26 July 2019	% CHANGE	13 September 2019	% CHANGE
TEST PARAMETER										
CARBON DIOXIDE (PPM)	394	399	0%	402	0%	891	1035	+17%	644	- 28%
TVOC'S (PPM)	0.03	0.06	+100%	0.05	+66%	0.57	0.11	- 81%	0.07	- 88%
FORMALDEHYDE (PPM)	NIL	NIL	0%	0.01	0%	0.03	0.01	- 67%	0.01	- 67%
RESPIRABLE DUST (µG/M3)	29	29	0%	179	+517%	25	37	+48%	143	+472%
PM2.5 (µG/M3)	7	11	+57%	41	+485%	7	8	+14%	32	+357%
TOTAL BACTERIAL COUNT (CFU/M3)	65	110	+70%	135	+107%	955	4485	+370%	310	- 68%
TOTAL FUNGAL COUNT (CFU/M3)	120	370	+208%	240	+100%	235	420	+78%	125	- 47%

SEE NOTE 3

These measurements were taken by ALS Laboratories, an NEA Certified IAQ Testing Laboratory



Note 1: Kindergarten Classroom Test 1 – A ProMedUSA Model AirPro-1 was installed. This model is too small for this size classroom, but the SGMH-882 was not available so we conducted the test with the AirPro-1.

Note 2: Kindergarten Classroom Test 2 – A ProMedUSA Model SGMH-882 was installed. This model is the proper size bi-polar ionizer for this size room, and the increased effectiveness of this unit is obvious. Sparkletots purchased the SGMH-882

Note 3: The Respirable Dust count and the PM2.5 count were up significantly on 13 September (+472% and +357%) This is because Singapore was suffering from severe Haze on this day, and the outer doors were continuously opening, letting in Haze.

PCF Sparkletots was concerned about the TVOC's, the high bacterial and high fungal count in the indoor air in their classroom. By installing our model SGMH-882 Bi-Polar Ionizer, we reduced these pollutants by 28% to 88%. PCF Sparkletots was very pleased, and the children and teachers quickly noticed the improvement in the indoor air quality.