

Report No

AZ0043753(0)

Date: 29 Sep 2020

Application No : LZ024916(0)

Applicant

: SYN-TECH FUEL MANAGEMENT & TECHNOLOGY CO. LTD.

UNIT 10, 15/F MING FAT INDUSTRIAL CENTRE

NO 1 KIN FAT STREET

TUEN MUN, N.T. HONG KONG

Sample Description : One (1) sample received from client - WOODTONIC ® Air Detoxifier.

Test Period

: 10 Sep 2020 to 25 Sep 2020.

Test Requested

: Removal Performance Test.

1. Formaldehyde

2. Ammonia

3. Hydrogen Sulfide

4. Benzene

Test Result

: Refer to the results on page 3.

For and on behalf of

CMA Industrial Development Foundation Limited

Authorized Signature:

Lau Yan Kin Senior Manager Page 1 of 7

The conformity statement stated in Conclusion above is based on the decision rule agreed with applicant and listed in www.cmatesting.org/qac/statement-of-conformity.pdf.

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Method

Testing chemical reagent was added into the bubbler. The reagent was vaporized gradually and purged into two testing chamber, one for purifier sample and one for control sample. Testing gas was generated for 10 mins for stable generation. The first gas sample was collected at control chamber immediately; it is the initial gas concentration of the test. The concentration was controlled within 0.75 to 1.0ppm.

The concentrations of chemical reagents were measured by the below methods:

Formaldehyde: PPM Technology Formaldemeter htV-M (5 minutes per sample) Ammonia: NIOSH 6015, active pump sampling (30 minutes per sample)
Hydrogen Sulfide: Portable H2S Analyzer System - Jerome 605 (5 minutes per sample) Benzene: ppbRAE 3000 Portable Handheld VOC Monitor (5 minutes per sample)

The final sample was collected at 60 minutes. Two results were recorded and removal efficiency was calculated as the following:

initial concentration – final concentration % Removal efficiency = - x 100% initial concentration



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Results

Parameter	Unit	Run time (min)	Results	Removal %	
Formaldehyde		0	1.13	- 81	
		60	0.21		
Ammonia		0	1.00	95	
	ppm	60	0.05		
Hydrogen Sulfide		0	0.89	81	
		60	0.17		
Benzene		0	0.79	14	
		60	0.68		

***** End of Report *****

Note: 1. The initial concentration is controlled within 0.75 to 1.2 ppm.
2. Results only representative over the specified sampling area and periods.



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Appendix

Detail Run Data

Run Time (min)	Concentration, ppm				
	Formaldehyde	Ammonia	Hydrogen Sulfide	Benzene	
0	1.13	1.00	0.89	0.79	
5	0.78		0.65	0.76	
10	0.56		0.51	0.75	
15	0.39		0.42	0.74	
20	0.30		0.35	0.73	
25	0.28		0.29	0.72	
30	0.25	0.36	0.25	0.71	
35	0.24		0.24	0.70	
40	0.23		0.22	0.70	
45	0.23		0.2	0.69	
50	0.23		0.18	0.68	
55	0.22		0.16	0.68	
60	0.21	0.05	0.17	0.68	

Note: All results were measured every 5 minutes. For Ammonia, samples were collected every 30 minutes.



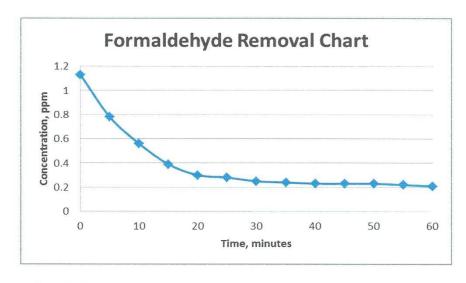
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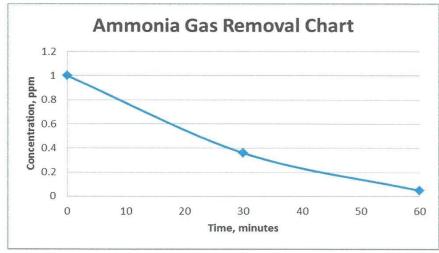
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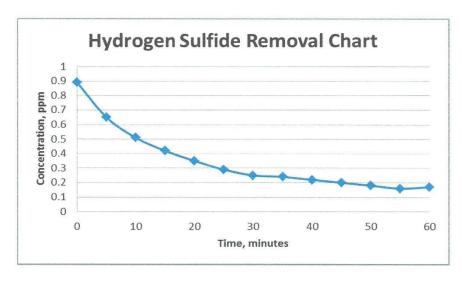
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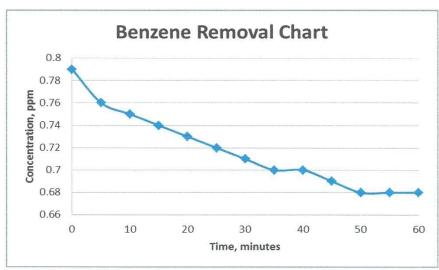
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測試報告

報告編號 : AZ0043800(4)

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裝置圖片





