

Solution 2		Section 1 of 2	
LCC costs in USD based on 5 years lifetime of installation			
Camfil LCC Green Report		Report date:	2018-Jul-10
Prepared by:	Nguyen Viet Hoang	Customer site information	
Office/Distributor:	27 MEE Corp	Company:	
Street address:	340 Truong Chinh Street	Contact:	
		Contact phone:	
City, ST Zip:	Tan Hung Thuan Ward, HCM City District 12,	Contact email:	
Phone:		Site location:	
Mobile:	+ 84 937.644.666	Building:	
Fax:		AHU:	
Email:	hoang@27mec.com.vn		

Filter performance summary



	1st Stage	2nd Stage
Filters:	30/30® M8 2"	S-Flo A8-M6-592x592x600
Rated Efficiency (MERV) / ISO 16890:	8 / N/A	N/A / N/A
EN779/ISO16890/EN1822 Filter Class:	G4	M6
Media type:	COTTON/POLYESTER	CM 590A
Face Velocity:	2.23 m/s	2.25 m/s
No. of Filter:	36	36
Size (mm):	594(W) x 594(H) x 45(D)	592(W) x 592(H) x 600(D)
Effective Media Area:	1.6 m²	4.5 m²
Filter Price:	11 USD	33 USD
Labor Cost:	300 USD	300 USD
Waste Handling Cost:	10 USD	10 USD
- Increase per year:	10 %	10 %
Total System Air Flow:	102000 m³/h (70% Return Air)	102000 m³/h (70% Return Air)
Initial dP:	57 Pa	92 Pa
Final dP:	250 Pa	250 Pa
Average dP:	119 Pa	157 Pa
Filter Life:	6710 hours	5910 hours
Number of Filter Changes:	3	3.4
Energy usage - Filter:	112124 kWh	148216 kWh
Filter Carbon Fprint (CO²):	67 Ton	89 Ton
Landfill impact:	1.71 m³	4.29 m³

LCC costs in USD based on 5 years lifetime of installation

Life Cycle Cost Summary



	1st Stage			2nd Stage		
Filters:	30/30® M8 2"			S-Flo A8-M6-592x592x600		
Total Filter Cost:	1208	(5.37%)	USD	4860	(14.73%)	USD
Energy cost - Filter:	20327	(90.44%)	USD	26870	(81.43%)	USD
Labor Cost:	915	(4.07%)	USD	1227	(3.72%)	USD
Waste Handling Cost:	26	(0.12%)	USD	41	(0.12%)	USD
Total LCC:	22476	(100.00%)	USD	32998	(100.00%)	USD
			LCC for installation			
			New hardware cost per AHU		200 USD	
			30/30® M8 2"		22476 USD	
			S-Flo A8-M6-592x592x600		32998 USD	
			Total LCC		55674 USD	
			MLE		31.4%	
			ECI		20.88%	
Input Parameter						
Total System Air Flow:	102000 m³/h		Return Air:	70%		
Outdoor Environment:	Large town (ODA2)		Indoor Environment:	Typical		
Fan System Operating:	4000 hours/year		Fan Efficiency:	60%		
Interest Rate:	0%		Cleaning Interval:	> 20		
Energy Cost:	0.15 USD/kWh		- increase per year:	6%		
Duct Cleaning Cost:	0 USD/m²		- increase per year:	0%		
Equipment Cleaning Cost:	0 USD/cleaning		- increase per year:	0%		