

Solution 1		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:	
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## Filter performance summary



	1st Stage	2nd Stage
Filters:	30/30® M8 2"	HI-FLO P8
Rated Efficiency (MERV) / ISO 16890:	8 / N/A	N/A / ISO ePM1 85%
EN779/ISO16890/EN1822 Filter Class:	G4	F9 / ISO ePM1 85%
Media type:	COTTON/POLYESTER	CM295B
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 534(D)
Effective Media Area:	1.6 m <sup>2</sup>	6.5 m <sup>2</sup>
Filter Price:	11 USD	88 USD
Labor Cost:	300 USD	300 USD
Waste Handling Cost:	10 USD	10 USD
- Increase per year:	10 %	10 %
Total System Air Flow:	102000 m <sup>3</sup> /h (70% Return Air)	102000 m <sup>3</sup> /h (70% Return Air)
Initial dP:	57 Pa	120 Pa
Final dP:	250 Pa	245 Pa
Average dP:	119 Pa	170 Pa
Filter Life:	6710 hours	20000 hours
Number of Filter Changes:	3	1
Energy usage - Filter:	112124 kWh	160980 kWh
Filter Carbon Fprint (CO <sup>2</sup> ):	67 Ton	97 Ton
Landfill impact:	1.71 m <sup>3</sup>	1.26 m <sup>3</sup>

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## Life Cycle Cost Summary



	1st Stage			2nd Stage		
Filters:	30/30® M8 2"			HI-FLO P8		
Total Filter Cost:	1208	(5.37%)	USD	3168	(9.7%)	USD
Energy cost - Filter:	20327	(90.44%)	USD	29184	(89.38%)	USD
Labor Cost:	915	(4.07%)	USD	300	(0.92%)	USD
Waste Handling Cost:	26	(0.12%)	USD	0	(0%)	USD
Total LCC:	22476	(100.00%)	USD	32652	(100.00%)	USD

		LCC for installation	
		New hardware cost per AHU	200 USD
		30/30® M8 2"	22476 USD
		HI-FLO P8	32652 USD
		Total LCC	55328 USD
		MLE	87.7%
		ECI	7.84

## Input Parameter

Notes:	The life of the 2nd and/or 3rd filter will be more than 5 years. The program limits the life of this filter to 5 years and the calculation will be based on the final pressure drop after 5 years.		
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%