

23 37 Air Outlets and Inlets

23 37 23 – HVAC Gravity Ventilators

23 37 23.10 HVAC Gravity Air Ventilators

		Daily Crew	Labor- Output	Hours	Unit	Material	2022 Bare Costs Labor	Equipment	Total	Total Incl O&P
5680	3,000 CFM, 20" x 42"	Q-9	4	4	Ea.	1,850	243		2,093	2,425
5880	Size is throat area, volume is at 500 fpm									
7000	Note: sizes based on exhaust. Intake, with 0.125" SP									
7100	loss, approximately twice listed capacity.									

23 38 Ventilation Hoods

23 38 13 – Commercial-Kitchen Hoods

23 38 13.10 Hood and Ventilation Equipment

0010 HOOD AND VENTILATION EQUIPMENT

2970	Exhaust hood, sst, gutter on all sides, 4' x 4' x 2'	1 Carp	1.80	4.444	Ea.	2,325	250		2,575	2,925
2980	4' x 4' x 7'	"	1.60	5	"	6,775	282		7,057	7,875

23 41 Particulate Air Filtration

23 41 13 – Panel Air Filters

23 41 13.10 Panel Type Air Filters

0010 PANEL TYPE AIR FILTERS

2950	Mechanical media filtration units									
3000	High efficiency type, with frame, non-supported	G			MCFM	32.50			32.50	36
3100	Supported type	G			"	47			47	52
5500	Throwaway glass or paper media type, 12" x 36" x 1"				Ea.	2.29			2.29	2.52

23 41 16 – Renewable-Media Air Filters

23 41 16.10 Disposable Media Air Filters

0010 DISPOSABLE MEDIA AIR FILTERS

5000	Renewable disposable roll				C.S.F.	5.10			5.10	5.60
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23 41 19 – Washable Air Filters

23 41 19.10 Permanent Air Filters

0010 PERMANENT AIR FILTERS

4500	Permanent washable	G			MCFM	24.50			24.50	26.50
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23 41 23 – Extended Surface Filters

23 41 23.10 Expanded Surface Filters

0010 EXPANDED SURFACE FILTERS

4000	Medium efficiency, extended surface	G			MCFM	5.70			5.70	6.30
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23 42 Gas-Phase Air Filtration

23 42 13 – Activated-Carbon Air Filtration

23 42 13.10 Charcoal Type Air Filtration

0010 CHARCOAL TYPE AIR FILTRATION

0050	Activated charcoal type, full flow				MCFM	635			635	700
0060	Full flow, impregnated media 12" deep					219			219	241
0070	HEPA filter & frame for field erection					490			490	540
0080	HEPA filter-diffuser, ceiling install.				↓	320			320	355