



Spring Air

Engineering Energy Savings

Island Filter Hood FN-DB60 with MC

Double Box Canopy for Single Row Island Appliances

General Description

The island filter hood is used on all cooking equipment in a single row island arrangement. The hood is normally ceiling hung with a recommended mounting height of 6'6" (1981 mm) from the finished floor. The hood has a full-length "V" bank filter arrangement centered in the canopy width. The hood is finished in a No. 4 stainless steel finish on all exposed sides. The double box canopy can be tapered at the front. The filter hood is available with fluorescent or incandescent lights.

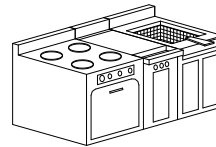
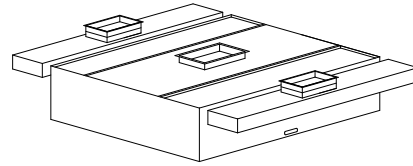
The tempered makeup air is discharged down through a perforated stainless steel panel located on the front of the filter hood.

Efficiency

The hood is equipped with high efficiency UL/ULC listed baffle grease filters. The exhaust air accelerates through multiple turns within the baffle filter. Centrifugal forces causes grease dirt and lint to deposit on the baffles. The liquefied grease drains down the baffles, along the grease trough, and into a grease cup.

Exhaust and Supply

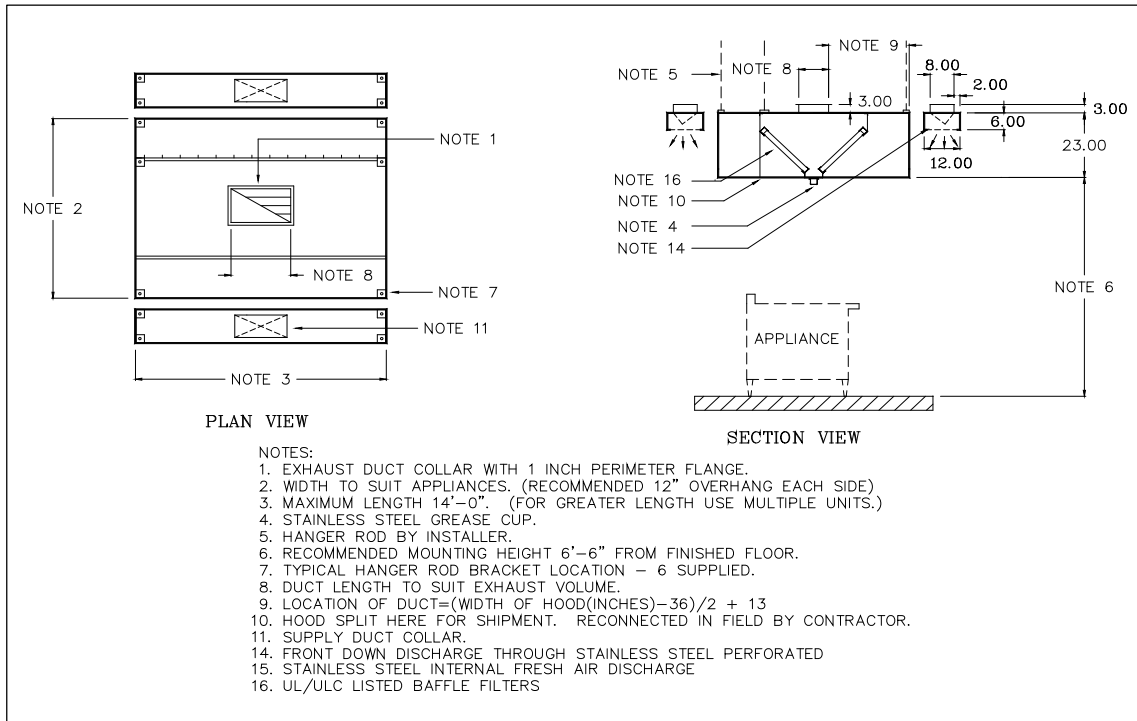
The total exhaust required to properly ventilate a commercial kitchen is directly related to the type of cooking equipment



under the ventilator. An exhaust flow rate between 200 and 600 CFM/ft (310 and 930 l/s/m) is required for most hoods. Refer to the *Ventilator Engineering Manual* for supply air volume calculations.

Unheated fresh air volume between 50 and 80% of the total exhaust is recommended for compensating makeup "MI" air systems. For detailed calculations refer to the *Spring Air Systems Compensating Hood Engineering Manual*.

Model FN-DB60 with-MC



Engineering Data

Ventilator Length		Exhaust Flow Rate (EFR*)											
		Exhaust @ 300 CFM/ft (465 l/s/m)				Exhaust @ 350 CFM/ft (544 l/s/m)				Exhaust @ 400 CFM/ft (620 l/s/m)			
(ft)	(mm)	Exh. (CFM)	Exh. (l/s)	Exh. Duct 10 in x	Exh. Duct 254 in x	Exh. (CFM)	Exh. (l/s)	Exh. Duct 10 in x	Exh. Duct 254 in x	Exh. volume (CFM)	Exh. volume (l/s)	Exhaust Duct 10 in x	Exhaust Duct 254 in x
3.0	914	900	427	8	203	1050	498	9	229	1200	569	10	254
3.5	1067	1050	498	9	229	1225	581	10	254	1400	664	12.5	318
4.0	1219	1200	569	11	279	1400	664	12.5	318	1600	758	13.5	343
4.5	1372	1350	640	12.5	318	1575	746	13.5	343	1800	853	16	407
5.0	1524	1500	711	13.5	343	1750	829	16	406	2000	948	18	457
5.5	1676	1650	782	14.5	368	1925	912	17	432	2200	1043	19	483
6.0	1829	1800	853	16	406	2100	995	18	457	2400	1137	21.5	546
6.5	1981	1950	924	18	457	2275	1078	20	508	2600	1232	22.5	572
7.0	2134	2100	995	19	483	2450	1161	21.5	546	2800	1327	25	635
7.5	2286	2250	1066	20	508	2625	1244	23.5	597	3000	1422	27	686
8.0	2438	2400	1137	21.5	546	2800	1327	25	635	3200	1517	28	711
8.5	2591	2550	1209	22.5	572	2975	1410	26	660	3400	1611	30.5	775
9.0	2743	2700	1280	25	635	3150	1493	28	711	3600	1706	31.5	800
9.5	2896	2850	1351	26	660	3325	1576	30.5	775	3800	1801	34	864
10.0	3048	3000	1422	27	686	3500	1659	31.5	800	4000	1896	36	914
10.5	3200	3150	1493	28	711	3675	1742	32.5	826	4200	1991	37	940
11.0	3353	3300	1564	29	737	3850	1825	34	864	4400	2085	39	991
11.5	3505	3450	1635	31.5	800	4025	1908	36	914	4600	2180	40.5	1029
12.0	3658	3600	1706	32.5	826	4200	1991	37	940	4800	2275	14 x 30.5	356 x 775
12.5	3810	3750	1777	34	864	4375	2073	39	991	5000	2370	14 x 32	356 x 813
13.0	3962	3900	1848	35	889	4550	2156	40.5	1029	5200	2464	14 x 33	356 x 838
13.5	4115	4050	1919	36	914	4725	2239	29.5	749	5400	2559	14 x 34.5	356 x 876
14.0	4267	4200	1991	38	965	4900	2322	31.5	800	5600	2654	14 x 35.5	356 x 902
14.5	4420	4350	2062	39	991	5075	2405	32	813	5800	2749	14 x 37	356 x 940
15.0	4572	4500	2133	40.5	1029	5250	2488	33.5	851	6000	2844	14 x 38.5	356 x 978

- Refer to the Ventilator Engineering Manual for Exhaust Volumes and Flow Rates not shown above.

Exhaust Flow Rate CFM/ft	Exhaust Static Pressure (in W.C.)
300	0.35
350	0.45
400	0.66
Supply Air Rate	Supply static Pressure ("W.C.)
All Flow Rates	0.20

Notes:

- Exhaust duct can be located anywhere along length of the filter hood
- For lengths greater than 14' (4270 mm) join multiple sections together.

Spring Air Systems Model No. FN-DB60 with MC Hood Specification

The filter hood shall be a Spring Air Systems model no. FN-DB60 with MC, double box canopy, "V" bank filter hood, for use over a single row island cooking appliance, UL/ULC listed, and built in accordance with the NFPA-96. The unit casing shall be a minimum 18 GA. Stainless steel with all exposed sides no. 4 finish. The filter hood shall include UL/ULC listed baffle grease filters mounted in an integral stainless steel "V" rack inclined at 45

degrees. The filter rack shall include a full-length stainless steel grease gutter and grease cup. The MC make up air plenum shall a down discharge through perforated stainless steel. The MC plenums shall ship loose. The hood shall have incandescent/fluorescent lights evenly spaced along the length of the hood.

Engineering Data

Item Number _____
 Model Number FN-DB60 with -MC _____
 Number of Sections _____
 Hood Length _____
 Hood Width _____
 Lights _____
 Exhaust Volume _____
 No. Of Duct Collars _____
 Size of Duct Collars _____
 Static Pressure _____
 Supply Volume _____
 No. Of Duct Collars _____
 Size Of Duct Collar _____
 Static Pressure _____

FNDB60 WITH MC