



Filter Hood

FN-B

Box Canopy Hood

General Description

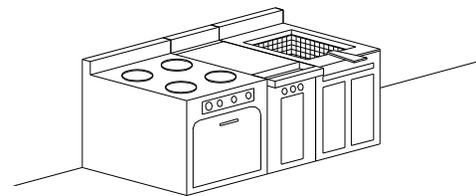
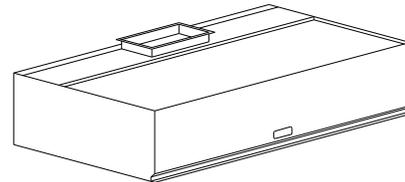
The filter hood is used on all cooking equipment. The hood is ceiling hung with a recommended mounting height of 6'6" (1981 mm) from the finished floor. The hood is finished in a No. 4 stainless steel finish on all exposed sides. The box canopy can be tapered to 11" (254 mm) at the front. The filter hood is available with fluorescent or incandescent lights.

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.

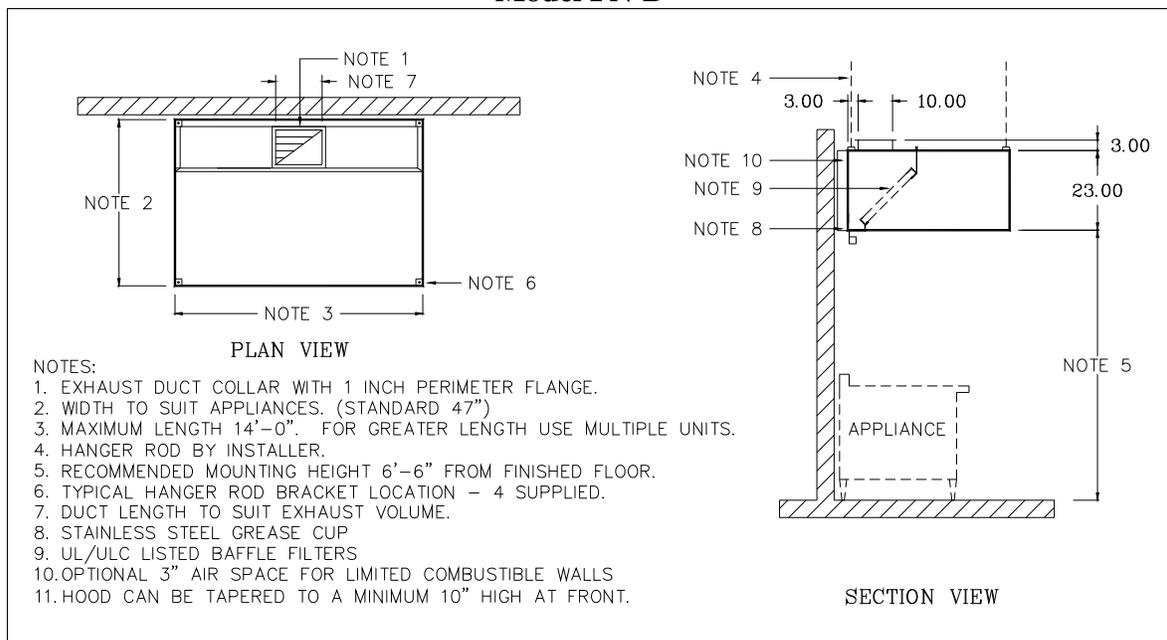
Exhaust and Supply

The total exhaust required to properly ventilate a commercial kitchen is directly related to the type of cooking equipment under the filter hood. An exhaust flow rate between 150 and 400 CFM/ft (233 and 620 l/s/m) is satisfactory for most applications. Introducing supply air back into the kitchen is good engineering practice. An adequate supply of fresh air



eliminates cold drafts, and hot spots, enhances the capture capability of the filter hood and results in a more comfortable kitchen environment. A supply air volume up to 80% of the total exhaust is recommended. The fresh air should be tempered to between 55 and 75F (13 to 24C)

Model FN-B



Ventilator Length		Exhaust Flow Rate*									
		100 CFM/ft		150 CFM/ft		250 CFM/ft		300 CFM/ft		350 CFM/ft	
		Exhaust Volume	Exhaust Duct size	Exhaust Volume	Exhaust Duct size	Exhaust Volume	Exhaust Duct size	Exhaust Volume	Exhaust Duct size	Exhaust Volume	Exhaust Duct size
ft.	mm	CFM	L (in) W=10 in	CFM	L (in) W=10 in	CFM	L (in) W=10 in	CFM	L (in) W=10 in	CFM	L (in) W=10 in
3.0	914	300	3	450	4	750	7	900	8	1050	9
3.5	1067	350	3	525	4.5	875	8	1050	9	1225	11
4.0	1219	400	4	600	5.5	1000	9	1200	11	1400	12.5
4.5	1372	450	4	675	5.5	1125	9	1350	12.5	1575	13.5
5.0	1524	500	4.5	750	7	1250	11	1500	13.5	1750	16
5.5	1676	550	4.5	825	8	1375	12.5	1650	14.5	1925	17
6.0	1829	600	5	900	8	1500	13.5	1800	16	2100	18
6.5	1981	650	5.5	975	9	1625	14.5	1950	18	2275	20
7.0	2131	700	6	1050	9	1750	16	2100	19	2450	21.5
7.5	2286	750	7	1125	10	1875	17	2250	20	2625	23.5
8.0	2438	800	7	1200	11	2000	18	2400	21.5	2800	25
8.5	2591	850	8	1275	11	2125	19	2550	22.5	2975	26
9.0	2743	900	8	1350	12.5	2250	20	2700	25	3150	28
9.5	2896	950	8.5	1425	12.5	2375	21.5	2850	26	3325	30.5
10.0	3048	1000	9	1500	13.5	2500	22.5	3000	27	3500	31.5
10.5	3200	1050	9	1575	13.5	2625	23.5	3150	28	3675	32.5
11.0	3353	1100	9.5	1650	14.5	2750	25	3300	29	3850	34
11.5	3505	1150	9.5	1725	16	2875	26	3450	31.5	4025	36
12.0	3658	1200	10	1800	16	3000	27	3600	32.5	4200	37
12.5	3810	1250	11	1875	17	3125	28	3750	34	4375	39
13.0	3962	1300	11	1950	18	3250	29	3900	35	4550	40.5
13.5	4115	1350	12.5	2025	18	3375	30.5	4050	36	4725	14x30.5
14.0	4207	1450	13	2100	19	3500	31.5	4200	38	4900	14x31.5

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

Exhaust Flow Rate		Static Pressure at Duct Collar	
CFM/ft	l/s/m	in W.C.	Kpa
100	155	0.28	0.07
150	233	0.28	0.07
250	388	0.28	0.07
300	465	0.35	0.09
350	544	0.55	0.14
400	620	0.64	0.16

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 FN-B Hood Specification

The filter hood shall be a Spring Air Systems model no. FN-B, box canopy, high efficiency, filter hood, UL/ULC listed, and built in accordance with the NFPA-96. The unit casing shall be a minimum 18 GA. stainless steel on all exposed surfaces. The filter hood shall include UL/ULC listed baffle grease filters mounted in an integral stainless steel rack inclined at 45 degrees. The filter rack shall include a full-length stainless steel grease gutter and grease cup. The hood shall have ____ fluorescent or incandescent lights evenly spaced along the length of the hood.

Engineering Data:

Item Number: _____
 Model Number: _____ FN-B _____
 Number of Sections: _____
 Hood Length: _____
 Hood Width: _____
 Lights: _____
Exhaust Specifications
 Exhaust Volume: _____
 No. of Duct Collars: _____
 Size of Duct Collar: _____
 Static Pressure: _____

FNB