

# **Island Filter Hood**

# FN-DB-MG60

# **Double Box Canopy Single Row Appliance** with Makeup Air

#### **General Description**

The island filter hood is used on single row cooking equipment in a double row island arrangement. The hood is 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 baffle filters on each side of the "V" can be sized for unequal exhaust air volumes. The hood is finished in a No. 4 stainless steel finish on all exposed sides. The double box canopy can be tapered to 12" (305 mm) at the front. The filter hood is available with fluorescent or incandescent lights.

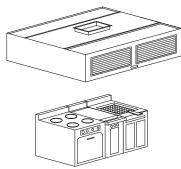
The heated makeup air is discharged through an adjustable grille located on the front of the hood.

#### 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**

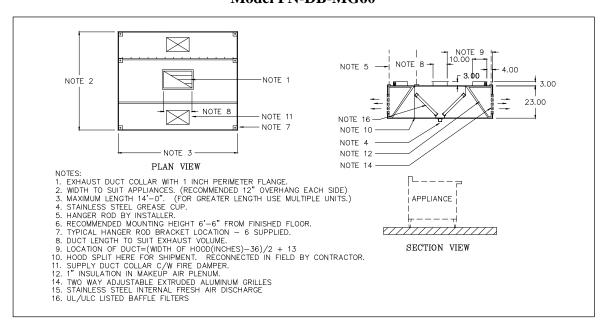
The total exhaust required to properly ventilate a commercial kitchen is directly related to the type of cooking equipment under the ventilator. An exhaust



flow rate between 300 and 700 CFM/ft (465 and 1085 l/s/m) is required for most hoods. Heated fresh air is discharged out the front of the hood canopy for MP and MG types. Fresh air volume of 80% of the total exhaust is recommended for heated makeup air systems. 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-DB-MG60



# **Engineering Data**

		Exhaust Flow Rate (EFR*)							
Ventilator		Exhaust @				Supply @ 480 CFM/ft (744 l/s/m)			
Length		600 CFM/ft (930 l/s/m)			(80% Exhaust)				
(ft)	(mm)	Exhaust	Exhaust	Exhaust	Exhaust	Supply	Supply	Supply	Supply
		volume	volume	Duct	Duct	Volume	Volume	Duct	Duct
		(CFM)	(l/s)	10 in x	254 in x	(CFM)	(l/s)	10 in x	254 in x
3.0	914	1800	853	16	406	1440	682	2 @ 14	2 @ 356
3.5	1067	2100	995	18	457	1680	796	2 @ 14	2 @ 356
4.0	1219	2400	1137	21.5	546	1920	910	2 @ 16	2 @ 406
4.5	1372	2700	1280	23.5	597	2160	1024	2 @ 18	2 @ 457
5.0	1524	3000	1422	27	686	2400	1137	2 @ 24	2 @ 610
5.5	1676	3300	1564	29	737	2640	1251	2 @ 24	2 @ 610
6.0	1829	3600	1706	31.5	800	2880	1365	2 @ 24	2 @ 610
6.5	1981	3900	1848	35	889	3120	1479	2 @ 28	2 @ 711
7.0	2134	4200	1991	37	940	3360	1592	2 @ 28	2 @ 711
7.5	2286	4500	2133	40.5	1029	3600	1706	2 @ 32	2 @ 813
8.0	2438	4800	2275	14 x 30.5	356 x 775	3840	1820	2 @ 32	2 @ 813
8.5	2591	5100	2417	14 x 32	356 x 813	4080	1934	2 @ 36	2 @ 914
9.0	2743	5400	2559	14 x 34.5	365 x 876	4320	2047	4 @ 18	4 @ 457
9.5	2896	5700	2701	14 x 36	356 x 914	4560	2161	4 @ 24	4 @ 610
10.0	3048	6000	2844	14 x 38.5	356 x 978	4800	2275	4 @ 24	4 @ 610
10.5	3200	6300	2986	14 x 40	356 x 1016	5040	2389	4 @ 24	4 @ 610
11.0	3353	6600	3128	16 x 36.5	406 x 927	5280	2502	4 @ 24	4 @ 610
11.5	3505	6900	3270	16 x 38.5	406 x 978	5520	2616	4 @ 24	4 @ 610
12.0	3658	7200	3412	16 x 40	406 x 1016	5760	2730	4 @ 24	4 @ 610
12.5	3810	7500	3555	16 x 42	406 x 1067	6000	2844	4 @ 28	4 @ 711
13.0	3962	7800	3697	2 @ 35	2 @ 889	6240	2957	4 @ 28	4 @ 711
13.5	4115	8100	3839	2 @ 36	2 @ 914	6480	3071	4 @ 28	4 @ 711
14.0	4267	8400	3981	2 @ 37	2 @ 940	6720	3185	4 @ 28	4 @ 711
14.5	4420	8700	4123	2 @ 38	2 @ 965	6960	3299	4 @ 32	4 @ 813
15.0	4572	9000	4265	2 @ 40.5	2 @ 1029	7200	3412	4 @ 32	4 @ 813

\*For flow Rates not shown above refer to the *Ventilator Engineering Manual* for Exhaust and Supply Volumes for MG and MP hoods and the *Compensating Engineering Manual* for Exhaust and Supply Volumes for MI hoods.

Exhaust Flow Rate CFM/ft	Exhaust Static Pressure (in W.C.)
400	0.35
500	0.45
600	0.66
Supply Air Rate	Supply static Pressure ("W.C.)
MG & MP	0.20
MI	0.45

## 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-DB-MG60 Hood Specification

The filter hood shall be a Spring Air Systems model no. FN-DB-MG60, double box canopy for single row cooking,, high efficiency, filter hood, with make up air plenum, 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 rack inclined at 45 degrees. The filter rack shall include a full length stainless steel grease gutter and grease cup.

The heated makeup air discharges through an adjustable grille located on the front of the hood, extruded aluminum, two way adjustable.

The unit casing shall be a minimum 18 GA. stainless steel on all exposed surfaces. The make up air plenum shall be insulated with 1" attenuating foam. The supply duct collars shall each have a fire damper with a 165'F fusible link. The sheet metal contractor shall supply an access door on the duct above the damper for inspection. The hood shall have incandescent/fluorescent lights evenly spaced along the length of the hood.

#### **Engineering Data**

Item Number	
Model Number	FN-DB-MG60
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	

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