

Island Filter Hood FN-DB with MC

Double Box Island Canopy Double Row Appliances with Down Discharge Makeup Air Exhaust Fire Damper

General Description

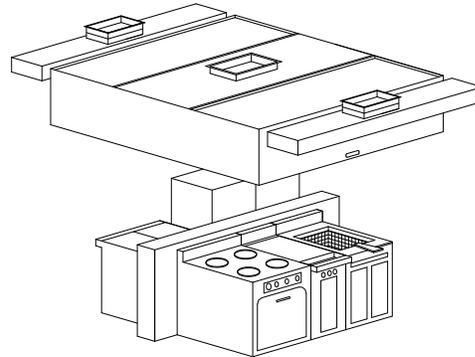
The island filter hood is used on all cooking equipment in a double row island arrangement. The hood is ceiling hung with a recommended mounting height of 6'6" (1981 mm) from the finished floor. The hood has a full-length "V" bank filter arrangement centered in the canopy width. The baffle filters on 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 down through perforated panels located on the front of the hood. The MC plenums are shipped loose with the hood.

Efficiency

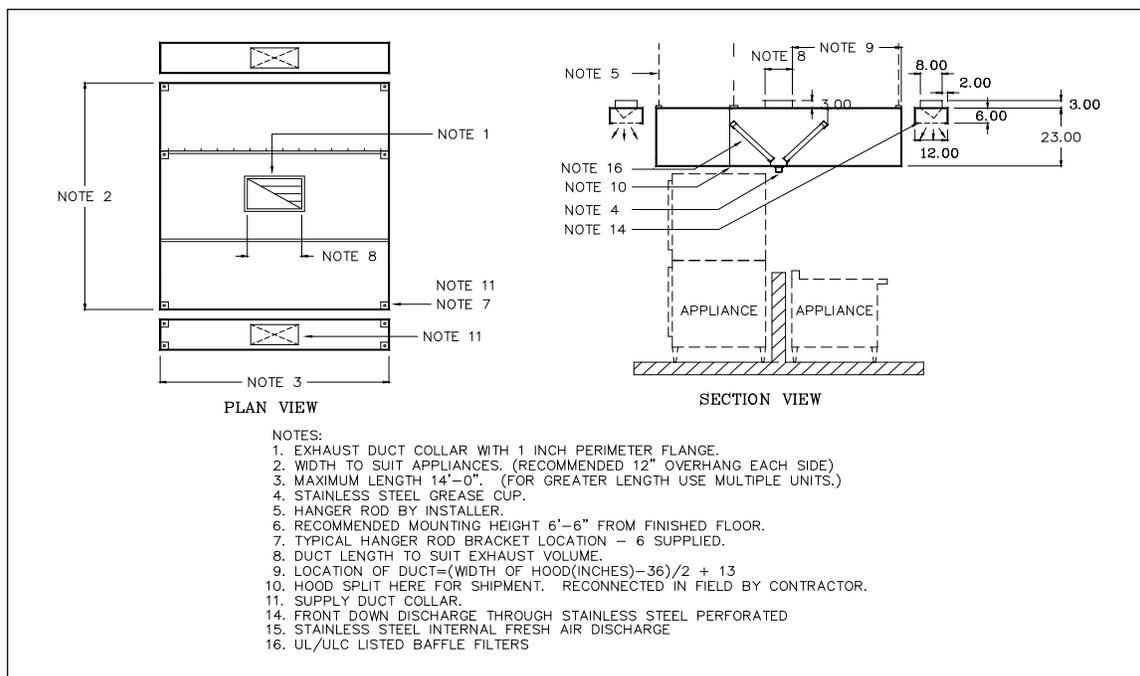
The hood is equipped with high efficiency UL/ULC listed baffle grease filters. The exhaust air accelerates through multiple turns within the baffle filter. Centrifugal forces causes grease dirt and lint to deposit on the baffles. The liquefied grease drains down the baffles, along the grease trough,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

Model FN-DB with MC



Engineering Data

Ventilator Length (ft)	Typical Exhaust and Supply Air Flow Rate for Heated Makeup Air MC types (EFR*)							
	Exhaust @ 500 CFM/ft		Supply @ 400 CFM/ft (80% exhaust)		Exhaust @ 600 CFM/ft		Supply @ 420 CFM/ft (70% exhaust)	
	Exhaust Volume CFM	Exhaust Duct Size in x in	Supply Volume CFM	Supply Duct Size in x in	Exhaust Volume CFM	Exhaust Duct Size in x in	Supply Volume CFM	Supply duct Size in x in
3.0	1500	10 x 13.5	1200	4 @ 10 x 6	1800	10 x 17	1260	4 @ 10 x 6
3.5	1750	10 x 16	1400	4 @ 10 x 6	2100	10 x 19	1470	4 @ 10 x 7
4.0	2000	10 x 18	1600	4 @ 10 x 7	2400	10 x 21.5	1680	4 @ 10 x 7.5
4.5	2250	10 x 20	1800	4 @ 10 x 7.5	2700	10 x 23.5	1890	4 @ 10 x 7.5
5.0	2500	10 x 22.5	2000	4 @ 10 x 8.5	3000	10 x 27	2100	4 @ 10 x 8.5
5.5	2750	10 x 25	2200	4 @ 10 x 9.5	3300	10 x 30.5	2310	4 @ 10 x 10
6.0	3000	10 x 27	2400	4 @ 10 x 10	3600	10 x 31.5	2520	4 @ 10 x 11
6.5	3250	10 x 29	2600	4 @ 10 x 11	3900	10 x 35	2730	4 @ 10 x 12
7.0	3500	10 x 31.5	2800	4 @ 10 x 12	4200	10 x 37	2940	4 @ 10 x 13
7.5	3750	10 x 34	3000	4 @ 10 x 13	4500	10 x 40.5	3150	4 @ 10 x 13.5
8.0	4000	10 x 36	3200	4 @ 10 x 13.5	4800	14 x 30.5	3360	4 @ 10 x 14.5
8.5	4250	10 x 38	3400	4 @ 10 x 14.5	5100	14 x 33	3570	4 @ 10 x 15
9.0	4500	10 x 40.5	3600	8 @ 10 x 7.5	5400	14 x 34.5	3780	8 @ 10 x 8.5
9.5	4750	14 x 30.5	3800	8 @ 10 x 8.5	5700	14 x 36	3990	8 @ 10 x 8.5
10.0	5000	14 x 32	4000	8 @ 10 x 8.5	6000	14 x 38.5	4200	8 @ 10 x 9.5
10.5	5250	14 x 33.5	4200	8 @ 10 x 9.5	6300	14 x 40	4410	8 @ 10 x 9.5
11.0	5500	14 x 35.5	4400	8 @ 10 x 9.5	6600	14 x 37	4620	8 @ 10 x 10
11.5	5750	14 x 37	4600	8 @ 10 x 10	6900	14 x 38.5	4830	8 @ 10 x 10
12.0	6000	14 x 38.5	4800	8 @ 10 x 10	7200	14 x 40	5040	8 @ 10 x 11
12.5	6250	14 x 40	5000	8 @ 10 x 11	7500	14 x 42	5250	8 @ 10 x 11
13.0	6500	16 x 36.5	5200	8 @ 10 x 11	7800	2 @ 10 x 35	5460	8 @ 10 x 12
13.5	6750	16 x 38	5400	8 @ 10 x 12	8100	2 @ 10 x 36	5670	8 @ 10 x 12
14.0	7000	16 x 39.5	5600	8 @ 10 x 12	8400	2 @ 10 x 37	5880	8 @ 10 x 13

*For flow Rates not shown above refer to the *Ventilator Engineering Manual* for Exhaust and Supply Volumes

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.)
MC	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-DB with MC Hood Specification

The filter hood shall be a Spring Air Systems model no. FN-DB with MC, double box canopy, high efficiency, filter hood, with down discharge make up air plenum, The MC plenums ship loose with the hood. 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 down through stainless steel perforated panels located on the front and back of the hood.

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 wuth 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	_____

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