

Heated Make-Up Air Filter Hood

FN-B-MG

Box Canopy Hood Makeup air

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 10" (254 mm) at the front. The filter hood is available with fluorescent or incandescent lights.

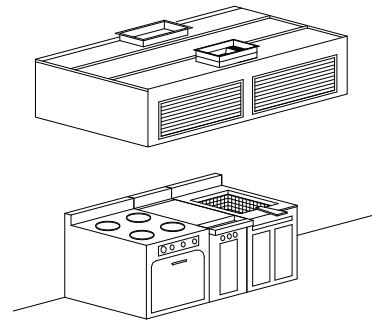
The tempered makeup air is discharged through two way adjustable extruded aluminum grilles.

Efficiency

The hood is equipped with high efficiency UL/ULC listed

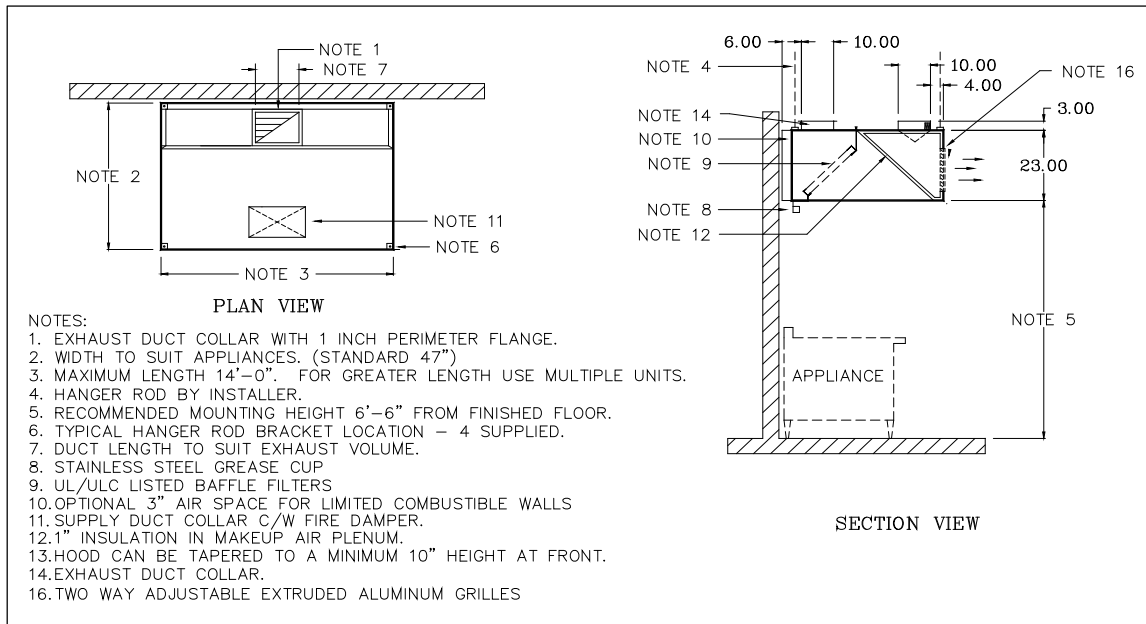
Baffle grease filters. The exhaust air accelerates through multiple turns within the baffle filter. Centrifugal forces causes grease dirt and lint to deposit on the baffles. The liquefied grease drains down the baffles, along the grease trough, and into a grease cup.

Exhaust and Supply



The total exhaust to properly ventilate commercial kitchen is directly related to the type of cooking equipment under the filter hood. An exhaust flow rate of between 150 to 400 CFM/ft. (233 to 620 l/s/m) is satisfactory for most installations. Directing the make-up air through the front of the hood provides the correct air quantity and excellent distribution within the kitchen

Model FN-B-MG



Engineering Data

| VENTILATOR LENGTH | | Exhaust Flow Rate (EFR) 300 CFM/ft. (465 l/s/m) | | | | | Exhaust Flow Rate (EFR) 350 CFM/ft. (544 l/s/m) | | | | |
|-------------------|------|--|-----------------|--------------------------------|-----------|-----------------|--|-----------|--------------------------------|-----------|----------------|
| | | Exhaust | | Supply Based on 80% of Exhaust | | | Exhaust | | Supply Based on 80% of Exhaust | | |
| | | Volume | Duct Size | Volume | No. Ducts | Duct Size | Volume | Duct Size | Volume | No. Ducts | Duct Size |
| ft. | mm | CFM | L (in.) W=10 | CFM | | L (in.) W=10 | CFM | LxW (in.) | CFM | | L(in.) W=10 |
| 3.0 | 914 | 900 | 8 | 720 | 1 | 12 | 1050 | 10x9 | 840 | 1 | 14.5 |
| 3.5 | 1067 | 1050 | 9 | 840 | 1 | 14.5 | 1225 | 10x11 | 980 | 1 | 17 |
| 4.0 | 1219 | 1200 | 11 | 960 | 1 | 16 | 1400 | 10x12.5 | 1120 | 1 | 18.5 |
| 4.5 | 1372 | 1350 | 12.5 | 1080 | 1 | 18.5 | 1575 | 10x14.5 | 1260 | 1 | 21 |
| 5.0 | 1524 | 1500 | 13.5 | 1200 | 1 | 20.5 | 1750 | 10x16 | 1400 | 1 | 24 |
| 5.5 | 1676 | 1650 | 14.5 | 1320 | 1 | 22 | 1925 | 10x17 | 1540 | 1 | 26.5 |
| 6.0 | 1829 | 1800 | 16 | 1440 | 1 | 24.5 | 2100 | 10x19 | 1680 | 1 | 29 |
| 6.5 | 1981 | 1950 | 18 | 1560 | 1 | 26.5 | 2275 | 10x20 | 1820 | 1 | 30.5 |
| 7.0 | 2131 | 2100 | 19 | 1680 | 1 | 29 | 2450 | 10x22.5 | 1960 | 1 | 33 |
| 7.5 | 2286 | 2250 | 20 | 1800 | 1 | 30.5 | 2625 | 10x23.5 | 2100 | 1 | 35.5 |
| 8.0 | 2438 | 2400 | 21.5 | 1920 | 1 | 32 | 2800 | 10x25 | 2240 | 2 | 18.5 |
| 8.5 | 2591 | 2550 | 22.5 | 2040 | 1 | 35 | 2975 | 10x27 | 2380 | 2 | 20.5 |
| 9.0 | 2743 | 2700 | 25 | 2160 | 1 | 36.5 | 3150 | 10x28 | 2520 | 2 | 21 |
| 9.5 | 2896 | 2850 | 26 | 2280 | 2 | 19.5 | 3325 | 10x29 | 2660 | 2 | 23 |
| 10.0 | 3048 | 3000 | 27 | 2400 | 2 | 20.5 | 3500 | 10x31.5 | 2800 | 2 | 24 |
| 10.5 | 3200 | 3150 | 28 | 2520 | 2 | 21 | 3675 | 10x32.5 | 2940 | 2 | 24.5 |
| 11.0 | 3353 | 3300 | 29 | 2640 | 2 | 22 | 3850 | 10x35 | 3080 | 2 | 26.5 |
| 11.5 | 3505 | 3450 | 31.5 | 2760 | 2 | 24 | 4025 | 10x36 | 3220 | 2 | 27 |
| 12.0 | 3658 | 3600 | 32.5 | 2880 | 2 | 24.5 | 4200 | 10x38 | 3360 | 2 | 29 |
| 12.5 | 3810 | 3750 | 34 | 3000 | 2 | 25.5 | 4375 | 10x39 | 3500 | 2 | 29.5 |
| 13.0 | 3962 | 3900 | 35 | 3120 | 2 | 26.5 | 4550 | 10x40.5 | 3640 | 2 | 30.5 |
| 13.5 | 4115 | 4050 | 36 | 3240 | 2 | 27 | 4725 | 14x30.5 | 3780 | 2 | 32 |
| 14.0 | 4207 | 4200 | 38 | 3360 | 2 | 29 | 4900 | 14x31.5 | 3920 | 2 | 33 |

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

Notes:

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

| 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 |

Specification

Model No. FN-B-MG: The filter hood shall be a Spring Air Systems model no. FN-B-MG, box canopy, high efficiency, filter hood, with make-up air plenum, two way adjustable extruded aluminum front discharge grilles, 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 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 and access door on the duct above the damper for inspection. The hood shall have _____ fluorescent/incandescent light evenly spaced along the length of the hood.

Engineering Data

Item Number _____

Model Number FN-B-MG _____

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: _____

FNBMG