Spring Air
Engineering Energy Savings

MJ PERIMETER DEFENSE

MJ Perimeter Defense
UL/ULC listed for

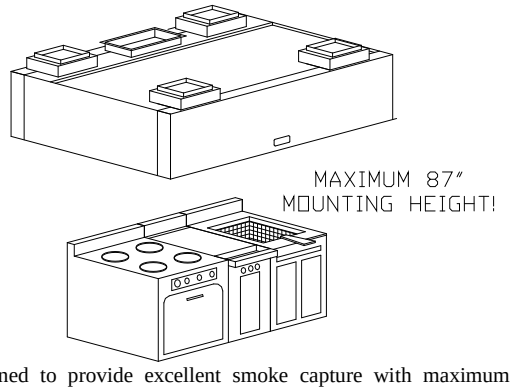
FN-B-MJ-I with fresh air

Single Row Island Filter/Cartridge Type
Box Canopy Hood

General Description
The MJ Perimeter Defense hood is NFPA-96 Type 1 listed for use with all temperature ranges on single row, island cooking equipment lineups. The hood is ceiling hung with a maximum mounting height of 87" (2209 mm) from the lower edge of the canopy to the floor. The MJ Perimeter Defense hood box canopy can be tapered to 11" (279 mm) at the front. The hood is finished with a No. 4 finish on exposed sides and is available with fluorescent, incandescent or recessed incandescent lights wired to a J-box.

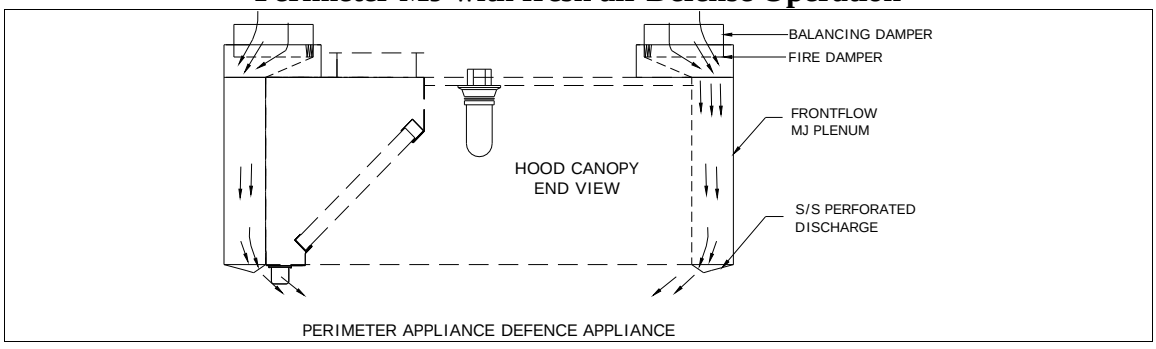
Efficiency
The MJ Perimeter Defense hood is equipped with UL/ULC listed baffle grease filters or cartridges. Five extraction methods are available with *MJ*.
VE – Value Engineered – standard grease extraction efficiency Stainless steel baffles.
CA – Medium grease extraction efficiency cartridges with adjustable flow baffles.
HE – High grease extraction Efficiency Cascade baffles for Enviro applications and reducing grease discharge from buildings.
EC – Easy Clean Teflon – standard grease extraction efficiency baffles for hot, heavy grease laden appliances.
SA – Spark Arrestor – standard grease extraction efficiency, for solid fuel appliances.

Exhaust and Supply
The MJ Perimeter Defense design exhaust volume is based on the appliances under the hood. It's a simple calculation to determine your best exhaust volume for any commercial kitchen lineup. The MJ Perimeter Defense hood can be fine-tuned to provide excellent smoke capture with maximum grease extraction.

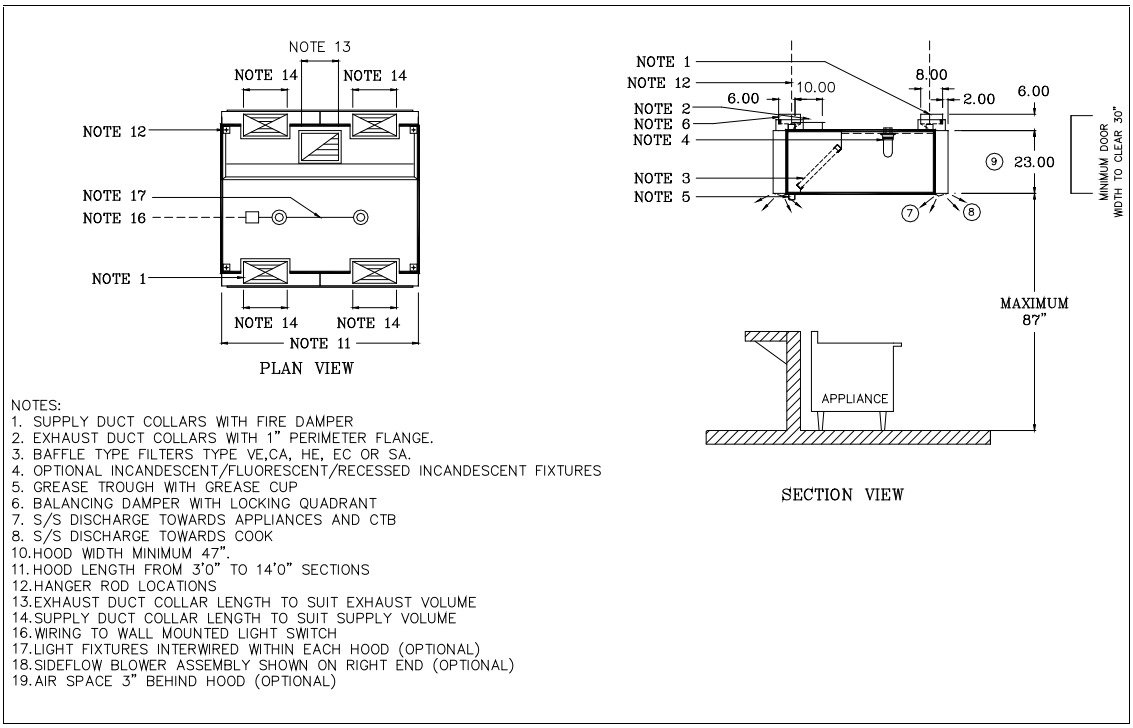


Introducing supply air back into the kitchen is good engineering practice. An adequate supply of fresh air eliminates cold drafts, and hot spots, enhances the capture capability of the hood and results in a more comfortable kitchen environment. A supply air volume of at least 80% of the total exhaust is recommended. The fresh air should be tempered to between 55 and 75F (13 to 24C). Direct the fresh air to separate diffusers surrounding the hood located in the finished ceiling. The diffusers must be located to eliminate short circuiting the exhaust and drafting. Consult with factory for recommended kitchen diffuser locations. If the hood is required to supply the fresh air directly refer to the Spring Air *MB DYNAFLOW specification sheet...*

Perimeter MJ with fresh air Defense Operation



Model FNBMJI with fresh air



NOTES:
1. SUPPLY DUCT COLLARS WITH FIRE DAMPER
2. EXHAUST DUCT COLLARS WITH 1" PERIMETER FLANGE.
3. BAFFLE TYPE FILTERS TYPE VE,CA, HE, EC OR SA.
4. OPTIONAL INCANDESCENT/FLUORESCENT/RECESSED INCANDESCENT FIXTURES
5. GREASE TROUGH WITH GREASE CUP
6. BALANCING DAMPER WITH LOCKING QUADRANT
7. S/S DISCHARGE TOWARDS APPLIANCES AND CTB
8. S/S DISCHARGE TOWARDS COOK
10. HOOD WIDTH MINIMUM 47".
11. HOOD LENGTH FROM 3'0" TO 14'0" SECTIONS
12. HANGER ROD LOCATIONS
13. EXHAUST DUCT COLLAR LENGTH TO SUIT EXHAUST VOLUME
14. SUPPLY DUCT COLLAR LENGTH TO SUIT SUPPLY VOLUME
16. WIRING TO WALL MOUNTED LIGHT SWITCH
17. LIGHT FIXTURES INTERWIRED WITHIN EACH HOOD (OPTIONAL)
18. SIDEFLOW BLOWER ASSEMBLY SHOWN ON RIGHT END (OPTIONAL)
19. AIR SPACE 3" BEHIND HOOD (OPTIONAL)

Spring Air Systems Model No. FN-B-MJ-I with fresh air Hood Specification

The MJ *Dynaflow* Perimeter Defense hood shall be a Spring Air Systems model no. FN-BI-MJ-I with fresh air, single row, island, box canopy, baffle extractor hood, with exhaust fire damper, "MJ" air plenum, UL/ULC listed, NSF certified and built in accordance with the NFPA-96.

The baffle extractors shall be one of the following types:

1. VE – Stainless steel baffles.
2. CA – Cartridges with adjustable flow baffles.
3. HE – High Efficiency Cascade
4. EC – Easy Clean Teflon baffles
5. SA – Spark Arrestor for sold fuel appliances.

The unit casing shall be a minimum 18 GA. stainless steel, with No. 4 finish on all exposed surfaces. The hood shall include UL/ULC listed 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 single row island hood shall be complete with two MJ plenums with supply duct collars complete with balancing damper and fire damper. The fresh air discharges out the bottom of the plenum through a s/s perforated plate along the length of the hood. The fresh air is directed through the bottom of the front and back MJ plenum towards the appliances under the hood. The hood shall have _____incandescent/fluorescent/recessed incandescent lights evenly spaced along the length of the hood.

Engineering Data

Item Number:	_____
Model Number:	FNBMJI with fresh air
Number of Sections:	_____
Hood Length:	_____
Hood Width:	_____
Lights:	_____
Exhaust Volume:	_____
No. of Exhaust Duct Collars:	_____
Size of Exhaust Duct Collar	_____
Exhaust Static Pressure:	_____
No. of MJ blower:	_____
Total FLA – 120V MJ blowers:	_____

Fnbmji with fresh air