

# MJ PERIMETER DEFENSE

**Filter/Cartridge Type**  
**Double Row, Double Island**  
**Box Canopy**



**MJ Perimeter Defense**  
**UL/ULC listed for 87" mounting height**

## FN-DB-MJ

### General Description

The hood is NFPA-96 Type 1 listed for use with all temperature ranges on double row, island cooking equipment lineups. The hood has a full length "V" bank filter /cartridge 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 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 number 4 finish on exposed sides. The hood 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.*

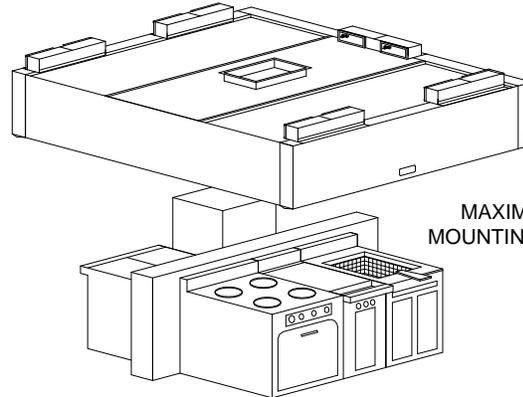
*HE – High grease extraction Efficiency Cascade baffles for Enviro applications and reducing grease discharge from buildings.*

*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

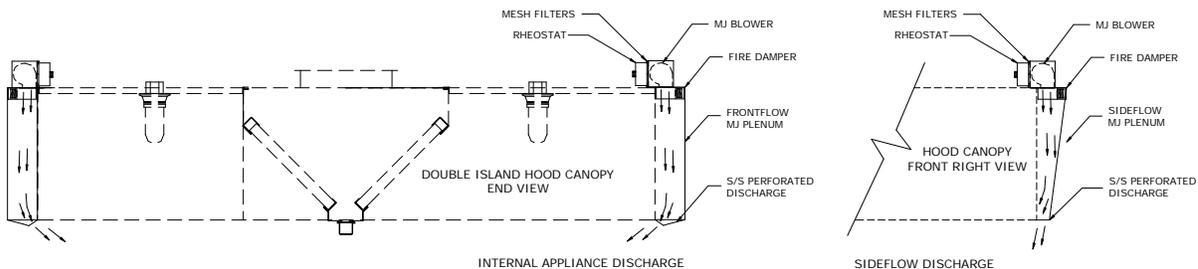


**MAXIMUM 87" MOUNTING HEIGHT!**

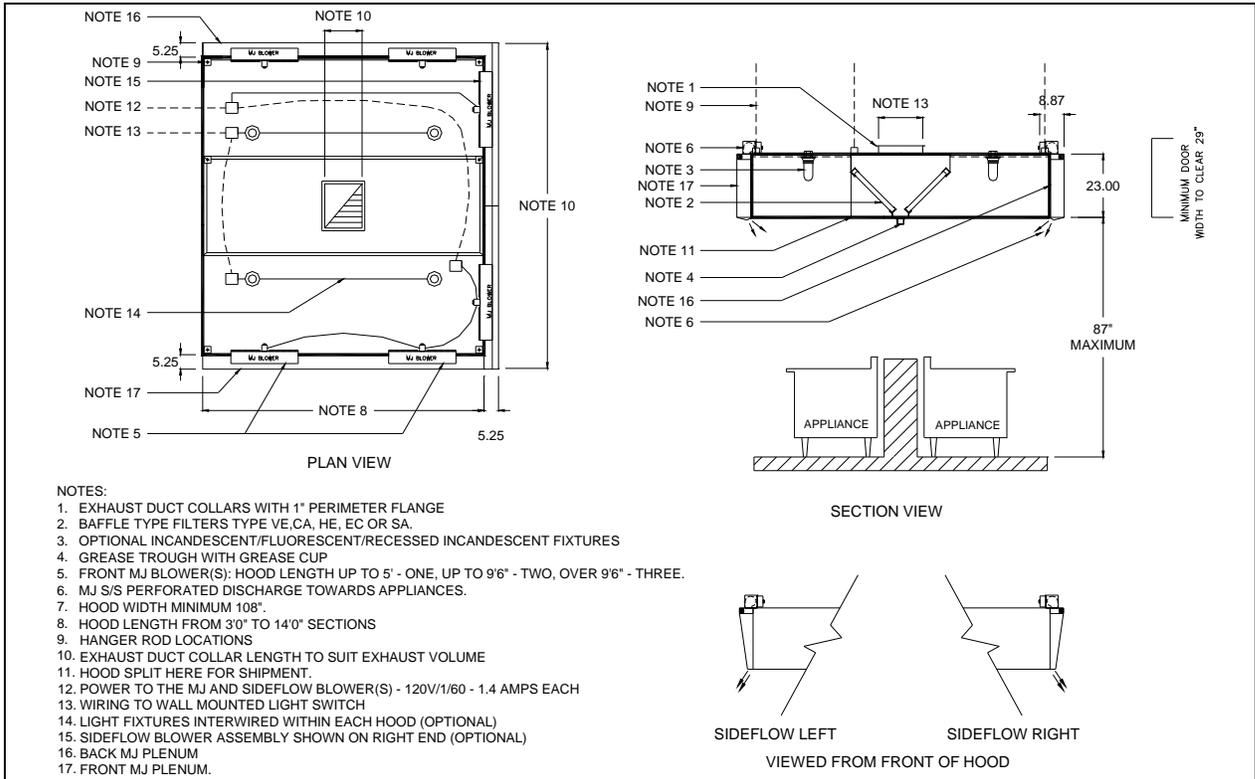
kitchen lineup. The MJ Perimeter Defense hood can be fine-tuned to provide excellent smoke capture with maximum grease extraction.

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*.

## MJ Perimeter Defense Operation



### Model FNDBMJ



### Spring Air Systems Model No. FN-DB-MJ Hood Specification

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

The baffle extractors shall be one of the following types:

- VE – Stainless steel baffles.
- CA – Cartridges with adjustable flow baffles.
- HE – High Efficiency Cascade
- EC – Easy Clean Teflon baffles
- 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 double row island hood shall be complete with two MJ plenums with top mounted MJ blowers to provide ceiling return air to the MJ plenum. The return air discharges out the bottom of the plenum through a s/s perforated plate along the length of the hood. The return air is directed through the bottom of the front and back MJ plenum towards the

appliances under the hood. MJ blower(s) mounted on top of the plenums are complete with adjustable Triacs, washable filters and wired to a common J-box on top of the hood. A fusible link fire damper is located below each MJ blower.

The hood shall have \_\_\_\_\_ incandescent/fluorescent/recessed incandescent lights evenly spaced along the length of the hood.

- Optional Sideflow right blower
- Optional Sideflow left blower

### Engineering Data

Item Number: \_\_\_\_\_  
 Model Number: FNDBMJ \_\_\_\_\_  
 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: \_\_\_\_\_  
 SideFlow LEFT: \_\_\_\_\_  
 SideFlow RIGHT: \_\_\_\_\_