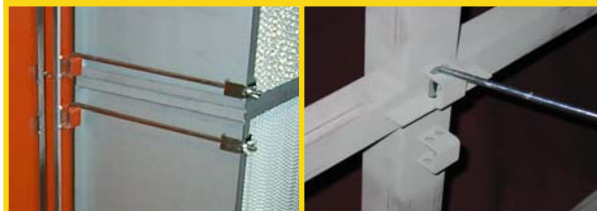


# magna-grid

## Factory Fabricated Absolute Filter Bank



Factory assembled built-up absolute filter banks offer positive filter sealing integrity



Swing bolts and equi-bearing clamps ensure an airtight filter to grid seal.

Filter support flanges ensure proper filter seating and easy filter replacement.

The Camfil Farr Magna-Grid is a factory assembled Absolute filter support module designed to ensure that the system efficiency equals the filter efficiency. The Magna-Grid:

- Is constructed of all-welded 3.5" deep 11-gauge galvanized channel steel (also available in 304SS or mild steel). All sealing surfaces are ground smooth to ensure a leak free filter to grid seal.
- Incorporates swing bolt filter fastening assemblies with equi-bearing clamps to provide uniform filter sealing pressure. This method assures specified filter performance by sealing each filter to leak proof specifications (recommended 50% gasket compression).
- Includes filter support flanges for proper replacement filter alignment. Filter service is simplified to allow the technician to properly fasten swing bolts and assure proper gasket compression.
- Accommodates standard 24" by 24" and 12" by 24" absolute filters in either 6" or 12" depths.
- May be ordered in configurations from 2 filters high by 2 filters wide to 4 filters high by 5-1/2 filters high. Modules may also be combined to meet any air handling requirement.
- Is easy to install. Peripheral stitch welds to duct work, screws or bolts, and lags through the Magna-Grid's built-in curb base is all that is required.
- Is available with an optional absolute prefilter kit that allows the installation of absolute filter, ASHRAE high efficiency filter, and prefilter in one assembly. Absolute filter integrity is not compromised during prefilter service.

The Magna-Grid is guaranteed to provide a scannable seal on the downstream side, when filter elements are properly installed. Filters are available in efficiencies from 95% at 0.3 microns to 99.995%.



Camfil Farr	Product sheet
Magna-Grid	2302 - 0606
Camfil Farr—clean air solutions	

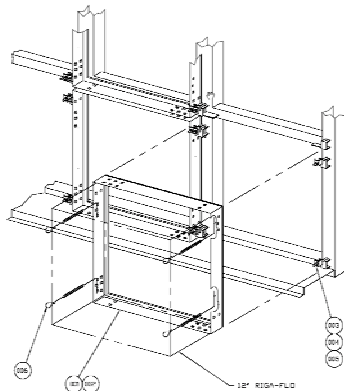
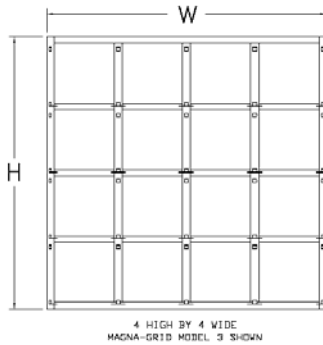
# PERFORMANCE DATA

# MAGNA-GRID

No. of Filters Wide	2	2½	3	3½	4	4½	5	5½	6	
Width (inches) ▶	53.50	67.12	79.12	92.75	104.75	118.38	130.38	144.00	156.00	
No. of Filters High	Height (inches) ▼	Airflow Capacities (cfm) <sup>1</sup> (Based upon using high capacity HEPA filters.)								
2	52.62	8,000	10,000	12,000	14,000	16,000	18,000	20,000	22,000	24,000
2½	65.38	10,000	-	15,000	-	20,000	-	25,000	-	30,000
3	77.38	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
3½	90.12	14,000	-	21,000	-	28,000	-	35,000	-	42,000
4	102.12	16,000	20,000	24,000	28,000	32,000	36,000	40,000	44,000	48,000

**DATA NOTES:**

<sup>1</sup> Airflow capacity based upon 2000 cfm for full size, and 1000 cfm for half size, high capacity HEPA filters. For standard capacity HEPA filters reduce listed cfm values by 45%. Values are provided for reference only as system velocities may have wide design variations. Swing bolts and filters must be ordered separately. Optional absolute prefilter kit includes extended swing bolts, frame clamps, and a Camfil Farr Type 8 Holding Frame. Filters and additional fasteners must be ordered separately.



- Optional Prefilter Kit  
See drawing number 110200
- 001 24" by 24" holding frame
  - 002 12" by 24" holding frame
  - 003 Swing bolt
  - 004 Fastener hook
  - 005 Hex nut (5/16-18)
  - 006 C-80 Fastener

## SPECIFICATIONS

### 1.0 General

- 1.1 - One-piece factory fabricated absolute filter bank module shall be manufactured of 3.5" deep 11-gauge channel steel (304SST) and include filter service flanges, swing bolt filter fastener assemblies, and curb base to secure unit upon installation. An appropriate number of swing bolt assemblies shall be provided with each module.
- 1.2 - Sizes shall be as noted on drawings or other supporting materials.

### 2.0 Construction

- 2.1 - One-piece factory fabricated filter bank shall be manufactured of 11-gauge galvanized steel (304SST). All filter sealing surfaces shall be ground smooth to ensure a leak free filter to module seal.

- 2.2 - Filter mounting flanges shall be an integral component of the module for filter support during filter service.
- 2.3 - Flanges shall include integral swing bolt filter fastener assemblies with equi-bearing clamps to secure filters to the grid. The assembly shall include four 5/16" zinc electroplated steel (304SST) swing bolts per filter in length appropriate to filter depth.
- (2.4 - Include an absolute prefilter kit consisting of four extended swing bolts, frame clamps, and an ASHRAE grade holding frame shall be included.)

### 3.0 Performance

- 3.1 - The sealing assembly shall be capable of sealing each element with 30 inch/lbs. of torque to 50% filter gasket compression.
- 3.2 - Manufacturer shall provide evidence of facility certification to ISO 9001:2000.

\* Items in parentheses ( ) denote optional construction selection.

Camfil Farr has a policy of uninterrupted research, development and product improvement. We reserve the right to change designs and specifications without notice.

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