

# magna-frame II

## Absolute Holding Frame for Built-up Bank Installations



Positive sealing integrity in an easy to install built-up system frame



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

Pre-drilled filter bank assembly holes and annular dimples for ease of frame installation and filter replacement.

The Camfil Farr Magna-Frame II is an individual holding frame designed to ensure that the system efficiency equals the filter efficiency. The Magna-Frame II:

- Is constructed of all-welded 14-gauge galvanized steel (also available in 304SST). The frame will withstand 30 inch/lb. of sealing torque on the filter element at differentials greater than 10" w.g. without distortion. Sealing integrity is further ensured through the use of welded mitered corners.
- Includes a 1" absolute sealing flange to ensure an airtight filter gasket to frame seal.
- Includes annular-based dimples for proper filter alignment. Filter changes are simplified as the filter is centered within the holding frame.
- Includes pre-punched assembly holes for quick and easy assembly. The holes are within the annular dimples to recess assembly bolts or rivets.
- Incorporates swing bolt assemblies with equi-bearing clamps to provide uniform filter sealing pressure. The assemblies are offset to allow easy filter change regardless of filter bank width.
- Is dimensionally compatible with HVAC system configurations (24" by 24" and 12" by 24"). Four additional sizes are available to meet any application requirement.
- 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-Frame II is guaranteed to provide a scannable seal on the downstream side when filter elements are properly installed. It is the perfect hardware companion to Camfil Farr Absolute filters. Filters are available in efficiencies from 95% at 0.3 microns to 99.995%.



Camfil Farr	Product sheet
Magna-Frame II	2303B - 0606
Camfil Farr—clean air solutions	

# PERFORMANCE DATA

# MAGNA-FRAME II

Magna-Frame II (H x W, inches)	Holds Gasket Seal Absolute Filter Size (H x W, inches, 12" or 6" nominal depth)	Per Carton*		Airflow <sup>1</sup> Standard/High Capacity	Swing Bolts Required per Frame**
		Weight (lbs)	Cube (ft <sup>3</sup> )		
24.00 x 24.00	23.38 x 23.38	20.5	2.78	1100/2000	4
24.00 x 12.00	23.38 x 11.38	13.5	1.50	460/850	4
12.00 x 24.00	11.38 x 23.38	13.5	1.50	460/850	2
24.62 x 24.62	24.00 x 24.00	21.0	2.78	1100/2000	4
24.62 x 12.62	24.00 x 12.00	14.0	1.50	460/850	4
12.62 x 24.62	12.00 x 24.00	14.0	1.50	460/850	2

**DATA NOTES:**

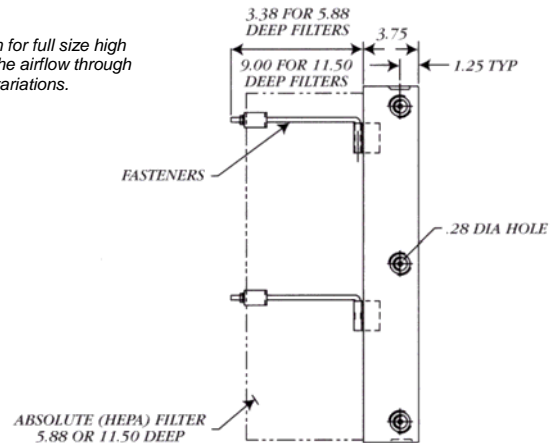
<sup>1</sup> Airflow capacity based upon 1100 cfm for full size standard capacity HEPA filters and 2000 cfm for full size high capacity HEPA filters. System pressure drop and energy savings may be achieved by derating the airflow through the system. Values are provided for reference only as system velocities may have wide design variations.

\*\* Swing bolts and filters must be ordered separately.

**Camfil Farr Absolute References:**

- |                                      |                       |
|--------------------------------------|-----------------------|
| XS Absolute (standard capacity)      | Bulletin # 1801-0302  |
| XH Absolute (high capacity)          | Bulletin # 1801H-0302 |
| Filtra 2000 (V-style high capacity)* | Bulletin # 1823-0302  |
| LS Absolute (standard capacity)      | Bulletin # 1803-0302  |
| LH Absolute (high capacity)          | Bulletin # 1803H-0302 |
| Micretain 95% @ 0.3 micron           | Bulletin # 1821-0302  |

\* Filtra 2000 rated at 2400 cfm for a full size filter.  
Contact factory for additional filter options.



## SPECIFICATIONS

### 1.0 General

**1.1** - Holding frames shall be constructed of 14-gauge galvanized steel (304 SST)\*. Frames shall be welded and include centering dimples, pre-drilled mounting holes, filter sealing flange and swing bolt assemblies. An appropriate number of swing bolts to match air filters shall also be included.

**1.2** - Sizes shall be as noted on drawings or other supporting materials.

### 2.0 Construction

**2.1** - Filter frame shall be all-welded construction of 14-gauge galvanized steel (304 SST)\*. The frame shall include pre-drilled mounting holes to align frame-to-frame and ensure built-up bank support.

**2.2** - Annular based centering dimples shall be an integral component to assist in proper seating of filter gasket to filter sealing flange. Assembly holes shall be within dimples to recess assembly bolts.

**2.3** - Filter securing swing bolt assemblies, of the same construction as the frame, shall be offset to facilitate multiple filter installations. The assembly shall include appropriate swing bolts to match filter depth and equi-bearing clamps to allow uniform filter gasket sealing. **(2.4** - Include an absolute prefilter kit consisting of four extended swing bolts, frame clamps, and an ASHRAE grade holding frame.)

### 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.

\* Items in parentheses ( ) denote optional selections.

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

**Camfil Farr, Inc.**

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