



### Gel seal integrity in a built-up bank holding frame



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



Pre-drilled filter bank assembly holes, annular dimples, and filter receptacle guides.

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

- Is constructed of all-welded 14-gauge galvanized steel (also available in 304SST). Sealing integrity is further ensured through the use of welded mitered corners.
- Includes a knife-edge to mate to a gel seal Absolute to ensure an airtight filter to frame seal.
- Includes pre-punched assembly holes for quick and easy assembly. The holes are within the annular dimples to recess assembly bolts or rivets.
- Includes annular based dimples around assembly holes and additional filter receptacle guides are mounted on the top and bottom of the frame to ensure proper filter alignment. Filter changes are simplified as the filter is automatically centered within the holding frame.
- 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 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 III is guaranteed to provide a scan-able seal on the downstream side when filter elements are properly installed. It is the perfect hardware companion to Camfil Gel Seal Absolute filters. Filters are available in efficiencies from 95% at 0.3 microns to 99.995%.

### Performance Data

Magna-Frame III (H x W, inches)	Holds gel 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> )		
24.62 x 24.62	24.00 x 24.00	22.6	2.78	1100/2000	4
24.62 x 12.62	24.00 x 12.00	15.6	1.50	460/850	4
12.62 x 24.62	12.00 x 24.00	15.6	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.

Contact factory for gel seal 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, knife-edge filter sealing flange and swing bolt assemblies. An appropriate number of swing bolts to match air filters shall also be included.

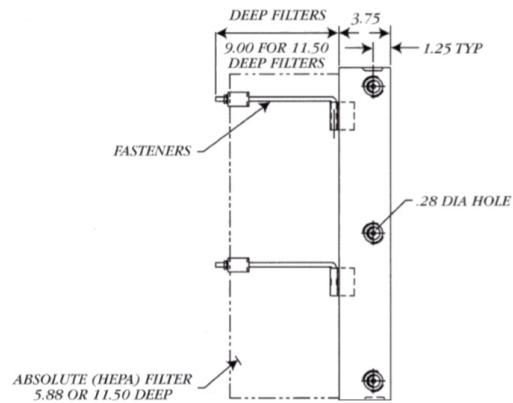
**1.2** - Sizes shall be as noted on drawings or other supporting materials.

#### 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 gel seal channel to frame sealing knife-edge. Assembly holes shall be within dimples to recess assembly fasteners. Additional filter receptacle guides on the top and bottom of the holding frame shall assist in filter alignment.

**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 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 create a scan capable filter to frame assembly seal.

\* Items in parentheses ( ) denote optional selections.

For detailed specifications please consult your local Camfil Distributor or Representative or [www.camfil.com](http://www.camfil.com).

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