

General

PrecisionCell HT filters are designed for high temperature applications up to 900°F. They feature the same rugged construction as the Gas Turbine PrecisionCell. The HT version is manufactured of specially selected components to meet high temperature requirements.

They are ideal for paint drying ovens or any application requiring high efficiency filtration at high temperatures. PrecisionCell HT filters are offered in two high temperature operating ranges; 750°F and 900°F and efficiency ranges of 65%, 85% and 95% per ASHRAE Standard 52.1. Offered as a MERV 11-14 according to ASHRAE 52.2.

Construction

The enclosing frame is manufactured of aluminized steel, which is designed to eliminate spalling of corrosion inhibitors at elevated temperatures.

The media pack is stabilized by a media pack retaining bar and captured by faceguards upstream and downstream. Grid strap bracing on the air entering and leaving sides maintain the rigidity and integrity of the PrecisionCell HT.

The media is designed for operation in high temperature applications and manufactured from one continuous sheet of wet-laid micro-fine fiberglass, which provides the required tensile strength and operating pressure drop for these stringent applications.

Physical Data

Frame: 24 ga. aluminized steel

Media: Dual layer microfine fiberglass

Separators: Hemmed-edge corrugated aluminum

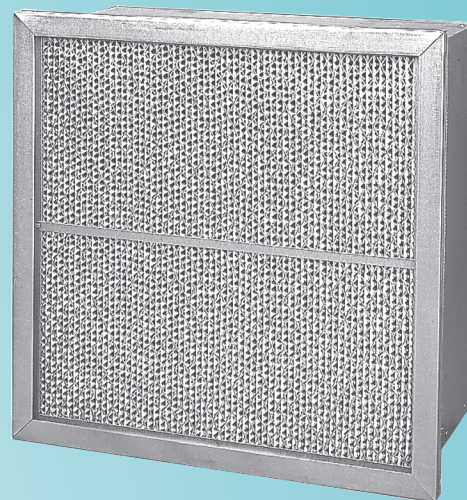
Header Frame: 13/16" wide aluminized steel

Faceguards: Aluminized steel expanded

Cross Bracing: 1/2" "T" strap downstream and horizontal strap upstream

Important Features

- Continuous duty up to 900°F
- Aluminized steel construction
- 65%, 85%, 95% efficiencies
- Faceguards and grid straps
- MERV 11 to 14



Efficiency	Operating Limit °F	Nominal Size H x W x D (inch)	500 fpm Rating		Media Area (sq. ft.)	Weight Each (lbs)
			cfm	pd		
60-65%	750	24 x 24 x 12	2000	.45	140	26
		24 x 12 x 12	1000		69	21
	900	24 x 24 x 12	2000	.50	175	28
		24 x 12 x 12	1000		90	22
80-85%	750	24 x 24 x 12	2000	.55	140	26
		24 x 12 x 12	1000		69	21
	900	24 x 24 x 12	2000	.60	175	28
		24 x 12 x 12	1000		90	22
90-95%	750	24 x 24 x 12	2000	.65	140	26
		24 x 12 x 12	1000		69	21
	900	24 x 24 x 12	2000	.70	175	28
		24 x 12 x 12	1000		90	22

Notes:

1. PD represents clean pressure drop in inches w.g. The recommended final pressure drop is 2.5 inch w.g.
2. Operation down to zero velocity is satisfactory for all models.
3. Efficiencies are average and are based on ASHRAE Standard 52.1 and 52.2 dust spot test methods. Performance values stated may be averages typical of the products listed. Contact factory for actual performance test reports on specific products.
4. Performance values shown in this publication may be averages or estimates intended to generally represent product styles. Always contact factory for latest actual test data on specific Flanders Corporation models.

Guide Specifications

1.0 General

- 1.1 High temperature rigid filters shall be PrecisionCell HT separator type as manufactured by Flanders.
- 1.2 Filter sizes and temperature ranges shall be as scheduled on the drawings.

2.0 Filter Construction

- 2.1 Filters shall be constructed by pleating a continuous sheet of wet-laid micro-fine glass media into closely spaced pleats with hemmed-edge corrugated aluminum separators.
- 2.2 The filter pack shall be sealed into a 24 ga. aluminized steel frame with fire-retardant sealant.

2.3 Expanded metal aluminized steel faceguards shall be installed on the air entering and air leaving sides.

2.4 A 1/2" "T" strap shall be installed on the downstream side and 1/2" horizontal strap on the air entering side.

3.0 Performance

- 3.1 Initial and final resistance shall not exceed the scheduled values.
- 3.2 Media area shall equal that of the scheduled high temperature filter.
- 3.3 The manufacturer shall guarantee performance as outlined in section 7.4 of ARI Standard 800.



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