

High Temperature VariCel®

Extended Surface Supported Pleat Filters, Designed For Automotive Paint Drying Oven Filtration Systems



APPLICATIONS

High Temperature VariCels are designed for continuous operation at temperatures from 350°F to 900°F. They are widely used in automotive paint drying ovens to filter recirculated air.

OPERATING TEMPERATURES

- HT-500 For operation up to 500°F
- HT-725 For operation up to 725°F (Can be operated at 750°F)
- HT-900 For operation up to 900°F

HT VariCels performance is based on testing after exposure to the rated temperature for eight hours. The filters continued to meet rated efficiency under these grueling test conditions.

The additional media area contained in the HT-725 and HT-900 filters results in increased dust holding capacity for longer service life.

SPECIAL HIGH TEMPERATURE CONSTRUCTION

All steel components of HT VariCel filters, including the cell sides, header, faceguards, and retaining straps are aluminized. Aluminized steel resists spalling or flaking of the coating which sometimes occurs with galvanized steel at elevated temperatures.



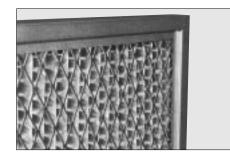
- Cell Sides and Header

The header and cell sides are mechanically interlocked, not welded, to maintain the integrity of the assembly and prevent internal thermal stresses and corrosion at high temperatures.

HT VariCel contains no adhesives, sealants or glues which can break down at high temperatures, weakening the filter and causing leakage. Sealants used on some competitive filters, such as silicone, may prevent paint from adhering if any traces were to be transmitted into the paint booth.

- Faceguards

Expanded aluminized steel faceguards are installed on both sides of the filter to retain the media pack at elevated temperatures.



- Retaining Straps

To secure the faceguards and increase overall rigidity, HT VariCel has retaining straps installed on both sides of the filter. A horizontal bar is fastened across the air entering side; two bars crossed at right angles are fastened to the air leaving side.

- Fiberglass Media

VariCel media is made from ultra-fine fiberglass formed into microglass paper with a water resistant binder. The media is pleated to provide a high ratio of media area to face area for maximum efficiency and dust holding capacity with minimum resistance. VariCel media is non-flammable.

- Aluminum Separators

Corrugated aluminum separators maintain uniform spacing between pleats to allow free flow of air into and through the filter. The separators also add rigidity to the filter construction. HT VariCels should be installed with the separators aligned vertically.

– Gaskets

The filters can be supplied with special high temperature fiberglass gaskets on the header.

OTHER AAF PRODUCTS FOR HIGH TEMPERATURE APPLICATIONS

Pleated Panel Filters

AmAir[®] HT pleated filters are designed for continuous operation up to 500°F. Ultra-fine fiberglass media, 30-35% efficiency. Aluminized steel frame. *Brochure AFP-1-165*

High Temperature Panel Filters

Special filters for installation in Delbag Universal Air Filter Housings. Designed for continuous operation up to 600°F. Continuous filament fiberglass media encased in expanded aluminum retainers. *Brochure AFP-1-270*



High Temperature VariCel®

OPERATING DATA

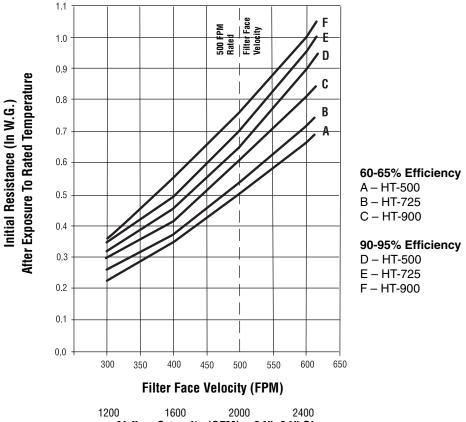
Initial Resistance vs. Filter Face Velocity

OPERATING TEMPERATURE LIMITS (CONTINUOUS)

HT-500: 500°F (260°C)

HT-725: 725°F (385°C) (Can be operated up to 750°F)

HT-900: 900°F (482°C)



Airflow Capacity (CFM) - 24"x24" Size

PRODUCT INFORMATION (STANDARD SIZES)

⁽²⁾ Rated Filter Face Velocity (FPM)	⁽¹⁾ Nominal Size (Inches) (W x H x D)	⁽¹⁾ Actual Size (Inches) (W x H x D)	⁽²⁾ Rated Airflow Capacity (CFM)		tial Resistance W.G.) 60%	⁽³⁾ Recommended Final Resistance (In. W.G.)	Gross M (Sq. 90%	edia Area Ft.) 60%	Filters Per Carton		ng Weight er carton) 60%
HT-500											
500 500	24 x 24 x 12 12 x 24 x 12	23-3/16 x 23-3/16 x 11-1/2 11-3/16 x 23-3/16 x 11-1/2		.65 .65	.50 .50	1.2 1.2	125 57	105 47	1 1	19.0 11.5	14.0 11.0
НТ-725											
500 500	24 x 24 x 12 12 x 24 x 12	23-3/16 x 23-3/16 x 11-1/2 11-3/16 x 23-3/16 x 11-1/2		.70 .70	.55 .55	1.2 1.2	140 62	140 62	1 1	20.0 12.0	20.0 12.0
HT-900											
500 500	24 x 24 x 12 12 x 24 x 12	23-3/16 x 23-3/16 x 11-1/2 11-3/16 x 23-3/16 x 11-1/2		.75 .75	.60 .60	1.2 1.2	175 79	175 79	1 1	21.3 13.1	21.3 13.1

(1) High Temperature VariCels should be installed with the separators vertical. For maximum dust holding capacity, the filters must be installed with the airflow in the direction indicated on the filter.
(2) All performance data is based on the ASHRAE 52.1 test method. Performance tolerances conform to Section 7.4 of the ARI Standard 850.93.
(3) High Temperature VariCels should not be operated beyond the recommended final resistance of 1.2" W.G.

Underwriters Laboratories Classification: All VariCels are classified by U.L. Class 1.

Testing was performed according to U.L. Standard 900.



10300 ORMSBY PARK PL STE 600 LOUISVILLE KY 40223-6169 P O BOX 35690 LOUISVILLE KY 40232-5690 www.aafintl.com

For Additional Information On AAF Products, Call The Answer Center 888.AAF.2003



