

PRODUCT DATA

**FILTER-LINE™
SERIES ESR
PD-FLESR-03A
JANUARY 2003**

**AIR
FILTERS**

FILTER-LINE™

SERIES ESR — 65-75-85-95-98/12
EXTENDED SURFACE RIGID CELL FILTERS — CLASS 2
65%, 75%, 85%, 95% AND 98% EFFICIENT — 12" DEEP

Description

The FILTER-LINE™ Series ESR - Extended Surface Rigid Cell Filters (Class 2) are designed to offer maximum filter area. ESR Cells utilize a dual density microglass paper media with a moisture resistant binder. Media is mini-pleated and pleat configuration is maintained by adhesive separators. Mini-pleat packs are arranged in a "V" configuration for low pressure drop, maximum surface area and high dust holding capacity. Media packs are sealed into a high impact plastic filter frame. Media pack retainers ensure a leak-free seal between mini-pleat packs. Extended Surface Rigid Cell Filters can be used in frame banks or side-access housings and are available in 65%, 75%, 85%, 95% and 98% efficiencies.

Construction**DUAL DENSITY MICROGLASS PAPER MEDIA**

Filter-Line ESR Filters are manufactured from microglass paper media. The dual density of the filter media offers coarser fibers on the air-entering side and finer fibers on the air-leaving side.

ADHESIVE SEPARATORS

ESR Cell Filters are constructed using adhesive separators to maintain pleat configuration. Uniform pleat spacing allows even air flow across the filter and helps to strengthen the media pack.

HIGH IMPACT PLASTIC FILTER FRAME

ESR Cell Filters are manufactured using a high impact plastic filter frame to retain and seal individual mini-pleat packs. All areas of the frame interior and media packs are potted and sealed.

MINI-PLEAT PACK RETAINERS

Filter-Line ESR Filters are supplied with mini-pleat pack retainers. The vertical pack retainers provide overall filter rigidity and seal the joint where mini-pleat packs meet. No leakage can occur.

MAXIMUM SURFACE AREA/LOW PRESSURE DROP

ESR Cell Filters offer the highest surface area of a Rigid Cell type filter. The "V" configuration provides 35% more filter area than a standard Rigid Cell, resulting in a lower pressure drop.

FIVE DIFFERENT ASHRAE EFFICIENCY RATINGS

Filter-Line ESR Filters are available in (5) different ASHRAE efficiency ratings of 65%, 75%, 85%, 95% and 98%. ESR Cell Filters are tested in accordance with current ASHRAE Standards.

Dimensional Data**SERIES ESR - EXTENDED SURFACE RIGID CELL FILTERS**

65%, 75%, 85%, 95% AND 98% EFFICIENCY RANGE

MODEL NUMBER	NOMINAL SIZE	ACTUAL SIZE	SQUARE FOOTAGE OF MEDIA
FLESR**/121224	12 x 24 x 12	11 3/8 x 23 3/8 x 11 1/2	97.0
FLESR**/122424	24 x 24 x 12	23 3/8 x 23 3/8 x 11 1/2	194.0

**Insert 65 for 65%, 75 for 75%, 85 for 85%, 95 for 95% and 98 for 98% efficient ESR Cell Filters.
Extended Surface Rigid Cells may be used in built-up holding frame bank assemblies or in side-access housing applications.

Performance Data

SERIES ESR	INITIAL RESISTANCE		RECOMMENDED FINAL RESISTANCE	ARRESTANCE VALUE
	@ 300 FPM	@ 500 FPM		
65/12	.11	.24	2.0	98%
75/12	.15	.26	2.0	99%
85/12	.15	.30	2.0	99%
95/12	.21	.35	2.0	100%
98/12	.36	.58	2.0	100%

MODEL NUMBER KEY

FLESR95/12**24**24

Insert model number extension to complete model number.

FL- FILTER-LINE™
ESR- Extended Surface Rigid Cell Filter
95/12- 95% Efficiency - 12" Depth
24- Unit Width
24- Unit Height

Note: Other special sizes are available, please contact factory.

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We reserve the right to make changes in product design and product specifications without prior notice or obligation.

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