

General

EA Series Replacement Air Filters are pre-formed, extended surface deep-pleated cartridges for use with existing hardware in commercial and industrial HVAC systems. EA Series filters are available in average efficiency ranges of 25-30%, 50-55%, 80-85% and 90-95% when tested according to ASHRAE Standard 52.1 methods. EA Series filters are UL 900 listed Class 2.

Construction

EA filter media is a non-woven cotton and synthetic blend (25% efficient) or moisture-resistant micro-fine lofted glass fiber (55%, 85% or 95% efficient). The media is reinforced with a non-woven remay backing and formed into a "pack" which is then hot-melt bonded top and bottom to 1/16 inch thick stiff moisture-resistant fiberboard panels. Alignment of the pleats in the media pack is carefully controlled during the bonding operation to facilitate insertion of the cartridge into the wire media retainer during installation. The completed filter is folded before being boxed to minimize shipping and storage volume.

Application

EA Series cartridge filters are designed to be used only in existing hardware as pictured below. This hardware consists of metal holding frames, sealer frames and wire basket-type retainers that may be used in either front or rear-loading built-up filter banks or side access housings.

EA Cartridge Disposable Replacement Air Filters are fully interchangeable with other manufacturers' cartridge filters and hardware. Units of one efficiency may be replaced in the same system hardware with similar size and depth units of another efficiency. When upgrading efficiencies, be sure to check the capability of the fan to overcome the increased pressure drop.

Physical Data

Media: Non-woven cotton and synthetic blend or moisture-resistant micro-fine lofted glass fiber reinforced with remay backing

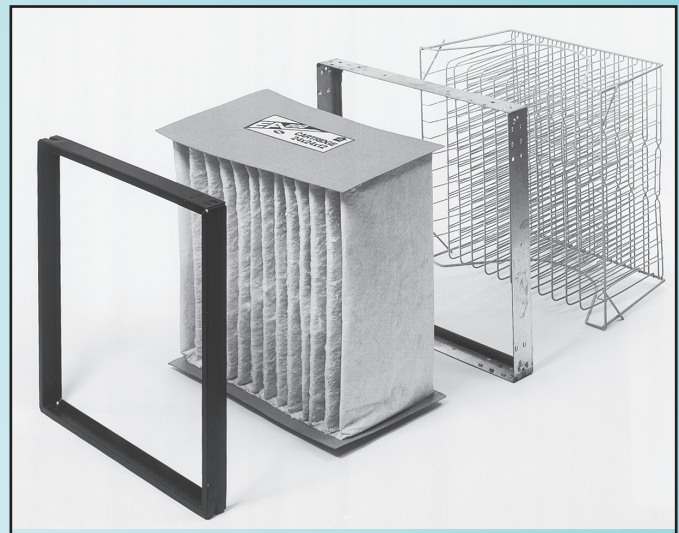
Panels: Top and bottom; 1/16 inch thick fiber board

Adhesive: Hot-melt thermoplastic

Operating Limits: 180° F.

Important Features

- Fully interchangeable with other manufacturer's hardware.
- Heavy-duty fiberboard side panels.
- Filters are UL 900 Class 2 listed.



| Efficiency % | Model Number | Actual HxWxD (in.) | Cfm Capacity | | Pressure Drop (in. w.g.) | | Media Area (sq. ft.) | Wt per Carton (lbs.) | Quantity per Carton |
|--------------|--------------|--------------------|--------------|------|--------------------------|----------|----------------------|----------------------|---------------------|
| | | | Low | High | Low cfm | High cfm | | | |
| 25-30 | EA-30C8 | 12 x 24 x 8 | 600 | 1000 | .10 | .20 | 14.5 | 15 | 20 |
| | EA-30K8 | 16 x 20 x 8 | 750 | 1250 | .10 | .20 | 15.8 | 12 | 10 |
| | EA-30D8 | 20 x 20 x 8 | 900 | 1500 | .10 | .20 | 19.8 | 14 | 10 |
| | EA-30H8 | 20 x 25 x 8 | 950 | 1750 | .10 | .20 | 25.6 | 19 | 10 |
| | EA-30A8 | 24 x 24 x 8 | 1000 | 2000 | .10 | .20 | 29.0 | 18 | 10 |
| | EA-30C12 | 12 x 24 x 12 | 800 | 1200 | .10 | .20 | 21.0 | 25 | 20 |
| | EA-30A12 | 24 x 24 x 12 | 1500 | 2500 | .10 | .20 | 42.0 | 26 | 10 |
| 50-55 | EA-55C8 | 12 x 24 x 8 | 550 | 800 | .12 | .30 | 14.5 | 11 | 10 |
| | EA-55K8 | 16 x 20 x 8 | 600 | 1000 | .12 | .30 | 15.8 | 7 | 5 |
| | EA-55D8 | 20 x 20 x 8 | 700 | 1100 | .12 | .30 | 19.8 | 8 | 5 |
| | EA-55H8 | 20 x 25 x 8 | 800 | 1250 | .12 | .30 | 25.6 | 10 | 5 |
| | EA-55A8 | 24 x 24 x 8 | 900 | 1500 | .12 | .30 | 29.0 | 11 | 5 |
| | EA-55C12 | 12 x 24 x 12 | 600 | 1000 | .12 | .30 | 21.0 | 15 | 10 |
| | EA-55A12 | 24 x 24 x 12 | 1000 | 2000 | .12 | .30 | 42.0 | 14 | 5 |
| 80-85 | EA-85C8 | 12 x 24 x 8 | 400 | 600 | .25 | .45 | 14.5 | 10 | 10 |
| | EA-85K8 | 16 x 20 x 8 | 400 | 700 | .25 | .45 | 15.8 | 6 | 5 |
| | EA-85D8 | 20 x 20 x 8 | 400 | 800 | .25 | .45 | 19.8 | 7 | 5 |
| | EA-85H8 | 20 x 25 x 8 | 500 | 1000 | .25 | .45 | 25.6 | 9 | 5 |
| | EA-85A8 | 24 x 24 x 8 | 600 | 1200 | .25 | .45 | 29.0 | 10 | 5 |
| | EA-85C12 | 12 x 24 x 12 | 600 | 1000 | .25 | .45 | 21.0 | 14 | 10 |
| | EA-85A12 | 24 x 24 x 12 | 1000 | 2000 | .25 | .45 | 42.0 | 14 | 5 |
| 90-95 | EA-95C8 | 12 x 24 x 8 | 350 | 500 | .30 | .55 | 14.5 | 10 | 10 |
| | EA-95K8 | 16 x 20 x 8 | 400 | 600 | .30 | .55 | 15.8 | 6 | 5 |
| | EA-95D8 | 20 x 20 x 8 | 400 | 800 | .30 | .55 | 19.8 | 8 | 5 |
| | EA-95H8 | 20 x 25 x 8 | 450 | 850 | .30 | .55 | 25.6 | 10 | 5 |
| | EA-95A8 | 24 x 24 x 8 | 500 | 1000 | .30 | .55 | 29.0 | 11 | 5 |
| | EA-95C12 | 12 x 24 x 12 | 450 | 750 | .30 | .55 | 21.0 | 14 | 10 |
| | EA-95A12 | 24 x 24 x 12 | 900 | 1500 | .30 | .55 | 42.0 | 14 | 5 |

1. Efficiency is average when tested per ASHRAE Standard 52.1 methods.
2. Listed pressure drop is for a clean filter. Recommended final pressure drop is 1.0 in. w.g. for all models.
3. Performance tolerances conform to Section 7.4 of ARI Standard 850.
4. Special sizes are not available.
5. EA cartridge hardware is not available.
6. Performance values stated may be averages typical of the products listed. Contact factory for actual performance test reports on specific products.

Guide Specifications

1.0 General

- 1.1 Filters shall be Model EA Series replacement filters as manufactured by Flanders.
- 1.2 Filters shall be UL 900 Class 2 listed.

2.0 Filter Construction

- 2.1 Filters with an efficiency of 25%-30% shall be constructed of a non-woven cotton and synthetic blend bonded to 1/16 in. thick moisture-resistant fiberboard panels.

- 2.2 Filters with an efficiency of 50-55% , 80-85% and 90-95% shall be constructed of lofted synthetic media with moisture-resistant fiberboard panels.

3.0 Performance

- 3.1 The manufacturer shall guarantee performance as stated in its literature within tolerances as outlined in Section 7.4 ARI Standard 850.