## AIRGUARD

## Variflow ${ }^{\text {TM }}$ Compact Series

Rigid Cell Extended Surface Filters

## Introduction

Variflow Compact Series offers many of the performance advantages of the Variflow product line in a thinner and lighter filter, only 2 " or 4 " $\operatorname{deep}\left(4^{\prime \prime}\right.$ shown). They can be used in a wide variety of applications for heating, ventilating and airconditioning and can be installed in existing systems with little or no modification. Variflow Compact Series can be used in high temperature applications up to $750^{\circ} \mathrm{F}$.

## Features

- High efficiency microglass paper media
- Available in three efficiencies ( $90 \%$ MERV 14, $80 \%$ MERV 13, and $60 \%$ MERV 11)
- Low profile (2" and 4" deep)
- Completely rigid, all metal design
- Aluminized steel cell sides
- Corrugated aluminum separators
- Expanded metal faceguards on both sides
- Moisture resistant
- Classified UL Class 1
- Maximum Operating temperature: $750^{\circ} \mathrm{F}$
- Optional high temperature gaskets available


Offered in 2" and 4" Deep (2" deep filter shown)

| Nominal Size <br> (In.) <br> (WxHxD) | Air Flow <br> Capacity (CFM) <br> @500 FPM - 4" <br> @250 FPM - 2" | Initial Resistance @ Rated AirFlow (In. W.G.) |  |  | Recommended <br> Final Resistance (In. W.G.) | Media Area $\left(\mathrm{Ft}^{2}\right)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $24 \times 24 \times 4$ | 2000 | . 65 | . 55 | . 40 | 1.5 | 94 |
| $20 \times 25 \times 4$ | 1750 | . 65 | . 55 | . 40 | 1.5 | 84 |
| $20 \times 24 \times 4$ | 1650 | . 65 | . 55 | . 40 | 1.5 | 82 |
| $20 \times 20 \times 4$ | 1400 | . 65 | . 55 | . 40 | 1.5 | 65 |
| $18 \times 24 \times 4$ | 1500 | . 65 | . 55 | . 40 | 1.5 | 70 |
| $16 \times 25 \times 4$ | 1400 | . 65 | . 55 | . 40 | 1.5 | 65 |
| $16 \times 20 \times 4$ | 1100 | . 65 | . 55 | . 40 | 1.5 | 52 |
| $12 \times 24 \times 4$ | 1000 | . 65 | . 55 | . 40 | 1.5 | 46 |
| $24 \times 24 \times 2$ | 1000 | . 46 | . 43 | . 28 | 1.5 | 42 |
| $20 \times 25 \times 2$ | 875 | . 46 | . 43 | . 28 | 1.5 | 37 |
| $20 \times 24 \times 2$ | 825 | . 46 | . 43 | . 28 | 1.5 | 35 |
| $20 \times 20 \times 2$ | 700 | . 46 | . 43 | . 28 | 1.5 | 29 |
| $18 \times 24 \times 2$ | 750 | . 46 | . 43 | . 28 | 1.5 | 32 |
| $16 \times 25 \times 2$ | 700 | . 46 | . 43 | . 28 | 1.5 | 29 |
| $16 \times 20 \times 2$ | 550 | . 46 | . 43 | . 28 | 1.5 | 29 |
| $12 \times 24 \times 2$ | 500 | . 46 | . 43 | . 28 | 1.5 | 21 |

1. Actual dimensions are $5 / 8^{\prime \prime}$ less than nominal ( $24^{\prime \prime} \times 24^{\prime \prime}$ is $\left.23-3 / 8^{\prime \prime} \times 23-3 / 8^{\prime \prime}\right)$. Actual depth: $4^{\prime \prime}$ is $3-3 / 4^{\prime \prime} ; 2^{\prime \prime}$ is $1-3 / 4^{\prime \prime}$.
2. Variflow CS filters should be installed with the pleats vertical.
3. Filters can be operated up to $125 \%$ of rated velocity. Do not exceed rated velocity if temperature exceeds $350^{\circ} \mathrm{F}$.
4. All performance data is based on the ASHRAE 52.2-2007 Test Methods, at a test velocity of 246 FPM for $24 \times 24 \times 2$ and 496 FPM for $24 \times 24 \times 4$ nominal size filters.

## Operating Data:

Initial Resistance - 4" Deep


## Efficiency by Particle Size



Particle Size (Microns)

Initial Resistance - 2" Deep


## Underwriters Laboratories, Inc. Classification

Variflow CS filters are classified Class 1 per U.L.
Standard 900.

## Operating Temperature Limit (Continuous)

 $750^{\circ} \mathrm{F}\left(399^{\circ} \mathrm{C}\right)$.For applications where the temperature exceeds $350^{\circ} \mathrm{F}$, do not exceed filter rated velocity and final resistance of 1.2" W.G.

## AIRGUARD

®

