

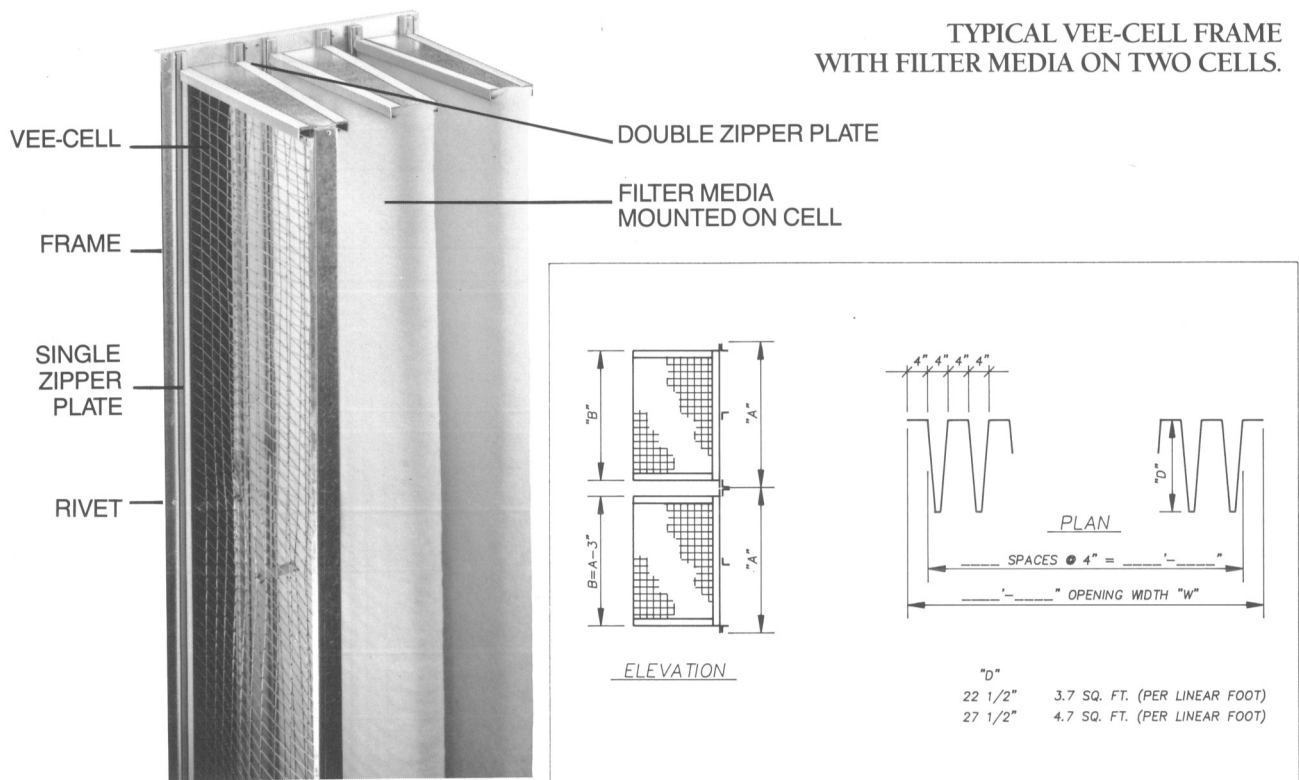
# VEE CELL FILTERS

AN EXTENDED SURFACE FILTER SYSTEM USED TO MEET A VARIETY OF FILTRATION REQUIREMENTS

The frame is made of strong V-shaped metal support grids. These are interlocked by extruded vinyl zippers. The frames are sealed into an accordion-like arrangement, forming a high capacity, low velocity air filter

system. The initial pressure drop at 100 feet per minute media velocity, is 0.25"wg. Vee Cell frames are available with 22<sup>1</sup>/<sub>2</sub>" and 27<sup>1</sup>/<sub>2</sub>" cell depths. They are also available in a wide variety of heights up to a

maximum of 12'-0". As indicated in the diagram below, Vee Cells may be stacked for greater opening heights. PROCLEAN filter media are available for applications to remove dust, oil mist, or lint.



After you choose the PROCLEAN filter media you need, these examples will help you design your Vee-Cell frames

### EXAMPLE 1

Assume: 46,000 CFM, 100 FPM through the media and an opening 10 ft high  
 Filter Area = 46,000 CFM / 100 FPM = 460 ft<sup>2</sup>  
 Number of Vee Cells = 460 ft<sup>2</sup> / (10 ft x 3.7 ft<sup>2</sup> per linear ft) = 12.43 Cells  
 Actual Velocity = 46,000 CFM / 13 Cells x 3.7 ft<sup>2</sup> per linear ft) = 95.6 FPM

### EXAMPLE 2

Assume: 60,000 CFM, 90 FPM through the media, 10 ft high x 10 ft wide opening  
 Filter Area = 60,000 CFM / 90 FPM = 667 ft<sup>2</sup>  
 Number of Vee Cells = 10 ft x 12 in/ft / 8 in = 15 Cells  
 Depth of Cells = 667 ft<sup>2</sup> / (10 ft high x 15 Cells) = 4.44 ft<sup>2</sup>  
 Actual Velocity = 60,000 CFM / (15 Cells x 10 ft high x 4.7 ft<sup>2</sup> per linear ft) = 85.1 FPM



**industrial air, inc.**

Greensboro, NC (336) 292-1030 [www.industrialairinc.com](http://www.industrialairinc.com)