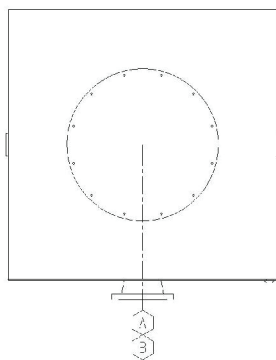
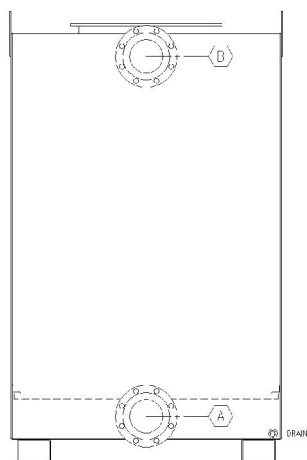


## V3 SERIES FILTERS



V3 series filters are designed to treat vapor streams in a wide variety of ad-sorption applications. The modular design enables the units to easily fit into a wide variety of installations. Standard features include steel construction with epoxy internal coating, efficient internal distributor array, forklift skid and lifting eyes.

A wide variety of options and contact medias are available, contact our sales and engineering team to assist in your application.



A - Process Inlet  
B - Process Outlet (on vessel top V3-108 thru V3-720)  
C - Drain  
Manway standard size 20" Round. Quantity 2 each for V3-108 and V3-180. Quantity 4 each for V3-360 and V3-720.



Standard Model Shown - Detailed Submittal Drawings Available

### V3 SERIES STANDARD SPECIFICATIONS

Model Number	V3-18	V3-36	V3-72	V3-108	V3-180	V3-360	V3-720
Overall Height	3'11"	5'3"	6'5"	7'7"	7'10"	9'0"	9'4"
Footprint	3'x3'	4'x4'	4'x4'	4'x6'	6'x8'	8'x10'	8'x20'
Process Connection	4" ANSI	6" ANSI	6" ANSI	8" ANSI	10" ANSI	12" ANSI	18" ANSI
Typical GAC Fill (28#/FT <sup>3</sup> )	500 Lbs	1,000 Lbs	2,000 Lbs	3,000 Lbs	5,000 Lbs	10,000 Lbs	20,000 Lbs
Shipping Weight (empty)	400 Lbs	450 Lbs	650 Lbs	1,500 Lbs	2,100 Lbs	4,500 Lbs	8,350 Lbs
Operational Weight	1,020 Lbs	1,750 Lbs	3,250 Lbs	5,400 Lbs	8,600 Lbs	17,500 Lbs	34,850 Lbs
Cross Sectional Bed Area	9 FT <sup>2</sup>	12 FT <sup>2</sup>	12 FT <sup>2</sup>	24 FT <sup>2</sup>	48 FT <sup>2</sup>	80 FT <sup>2</sup>	160 FT <sup>2</sup>
Available Bed Volume	18 FT <sup>3</sup>	36 FT <sup>3</sup>	72 FT <sup>3</sup>	108 FT <sup>3</sup>	180 FT <sup>3</sup>	360 FT <sup>3</sup>	720 FT <sup>3</sup>
Maximum Pressure	3 PSIG	2 PSIG	2 PSIG	1 PSIG	1 PSIG	1 PSIG	1 PSIG
Maximum Vacuum	8" Hg	6" Hg	4" Hg	2" Hg	1" Hg	NR	NR

**ACCHEMICALS, LLC - 401 N Velasco Houston, TX 77003 - 713-899-8269**

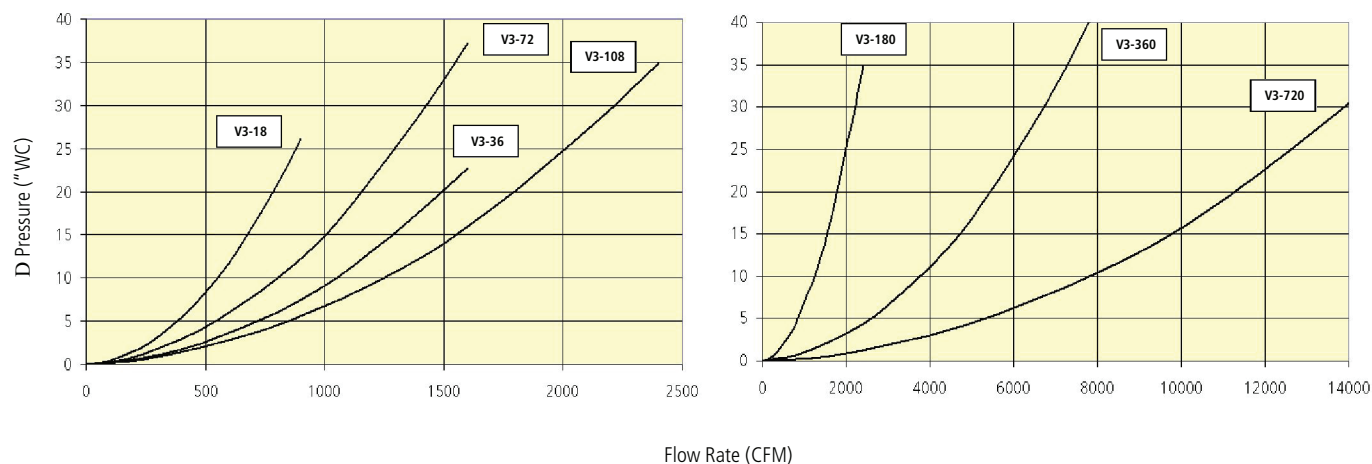
# V3 SERIES FILTERS

## 4x10 BITUMINOUS ACTIVATED CARBON

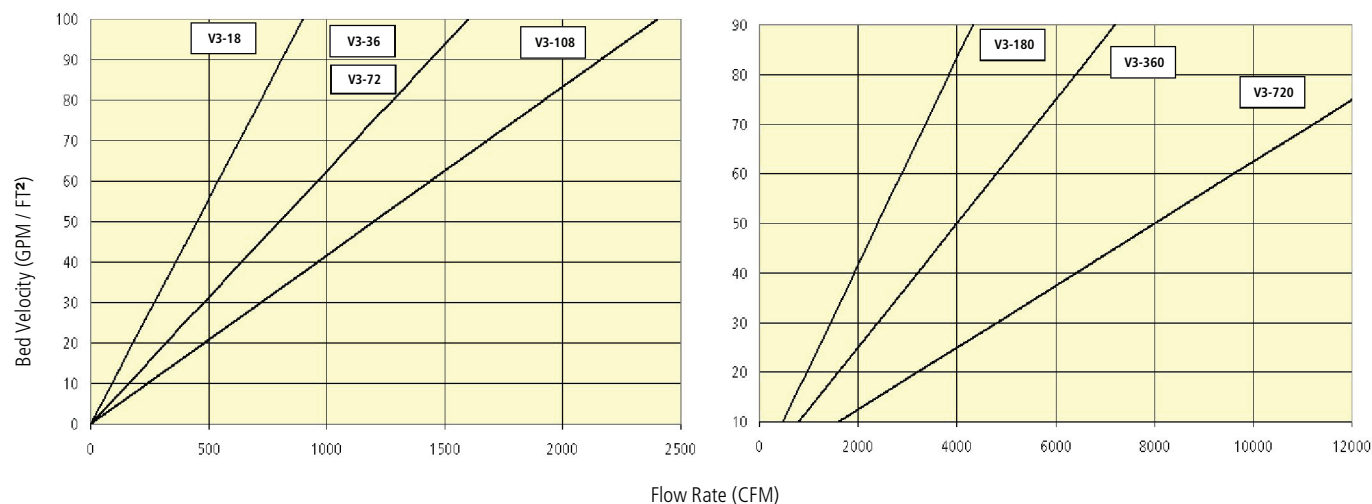


The following pressure drop graphs can be used for assistance in sizing blowers, etc. When utilizing pressure drop graphs it is important to consider the resultant figures represent typical start up conditions for a single unit. Pressure drop is measured from inlet nozzle to discharge nozzle. Certain conditions can cause extreme pressure drop increases over time.

Pressure Drop Graph for V3 Series Vessels



Bed Velocity Graph



The above bed velocity charts should be used when selecting the proper bed area related to flow-rate. This concern is primarily mechanical. Other factors should be considered when selecting the proper adsorber size. Bed velocities below 20 CFM/FT² increase the chances of unequal bed usage or "channeling". Bed velocities for up-flow configured adsorbers above 60 CFM/FT² can lead to bed fluidization causing loss of media.