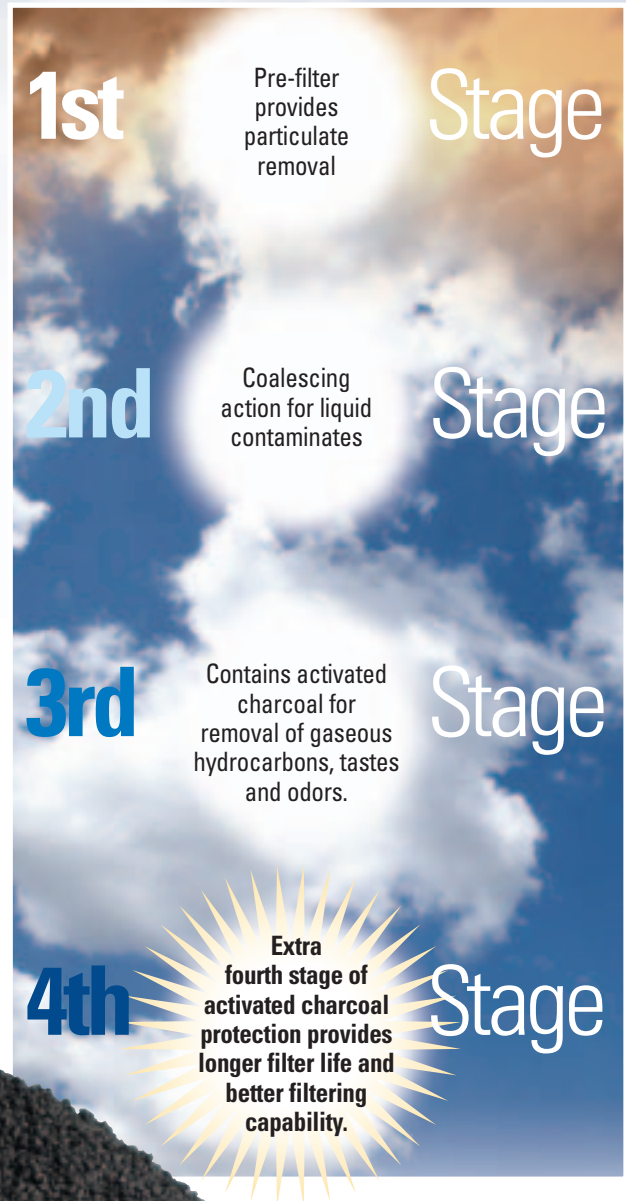# Air Filtration Systems (Non-Catalyst)

Here's Why Our Breathing Air Panels are the Best Available

For applications where CO removal is not desired, MST offers a complete line of Breathing Air Panels and airline monitor packages.

Like our CO removal equipment, our non-CO panels have significant advantages over competitive filtration systems. With a charcoal volume twice to eight times greater than other major suppliers, MST's Breathing Air Panels provide superior removal capability for hydrocarbon tastes and odors.

Our unique air distribution baffle design maximizes charcoal absorption efficiency by providing even air distribution throughout the cartridges.

Removes water, particulates, hydrocarbons, oil smell and taste

1st Stage — Pre-filter provides particulate removal

2nd Stage — Coalescing action for liquid contaminates

3rd Stage — Contains activated charcoal for removal of gaseous hydrocarbons, tastes and odors.

4th Stage — Extra fourth stage of activated charcoal protection provides longer filter life and better filtering capability.
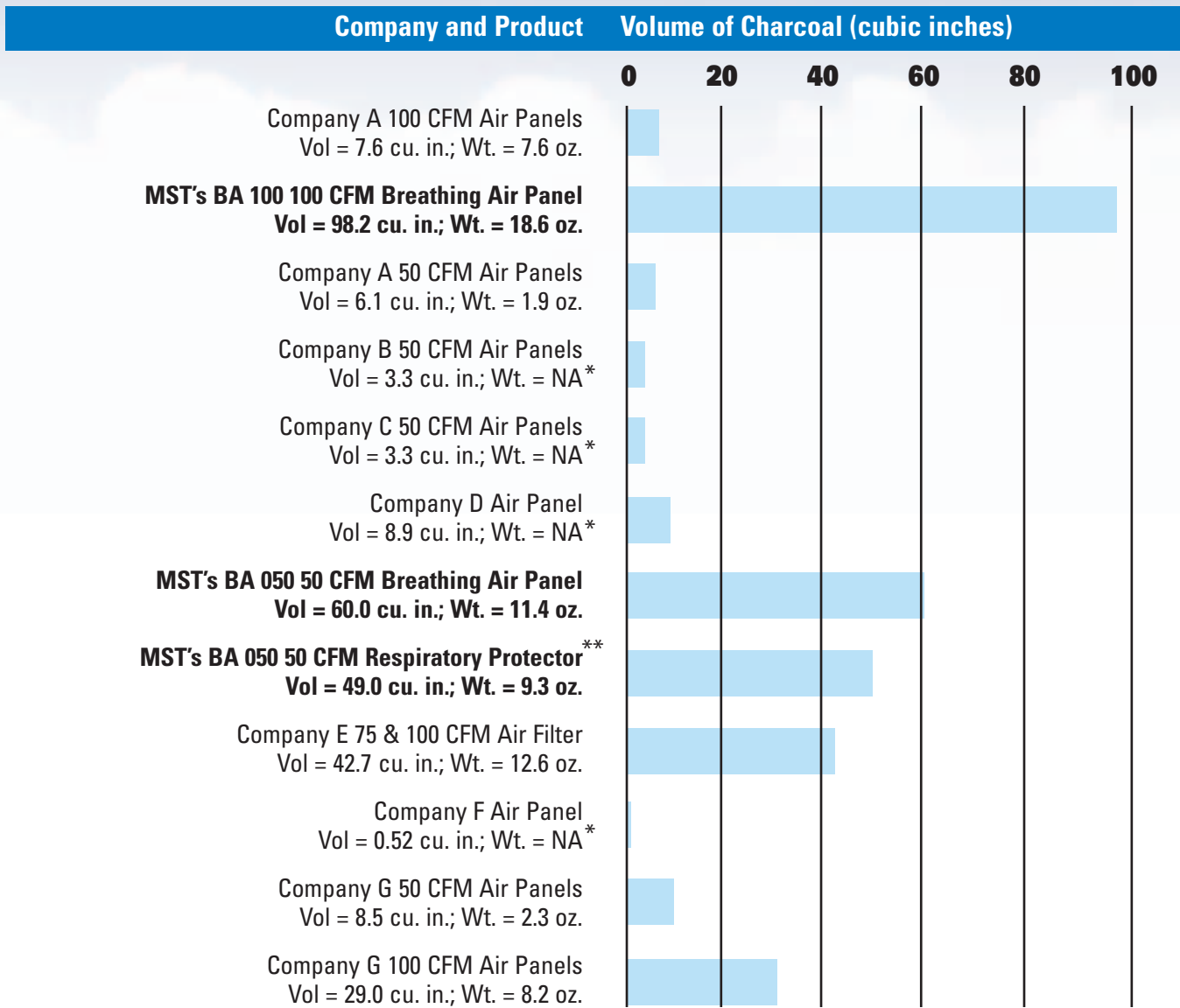
"Save your breath with **MST**® *"*

MODERN SAFETY TECHNIQUES

Charcoal Comparison Chart

The following chart is an indication of the hydrocarbon (tastes and odors) removal capability of various breathing filtration and purification systems.

Company and Product	Volume of Charcoal (cubic inches)
	0 20 40 60 80 100
Company A 100 CFM Air Panels Vol = 7.6 cu. in.; Wt. = 7.6 oz.	
MST's BA 100 100 CFM Breathing Air Panel **Vol = 98.2 cu. in.; Wt. = 18.6 oz.**	
Company A 50 CFM Air Panels Vol = 6.1 cu. in.; Wt. = 1.9 oz.	
Company B 50 CFM Air Panels Vol = 3.3 cu. in.; Wt. = NA*	
Company C 50 CFM Air Panels Vol = 3.3 cu. in.; Wt. = NA*	
Company D Air Panel Vol = 8.9 cu. in.; Wt. = NA*	
MST's BA 050 50 CFM Breathing Air Panel **Vol = 60.0 cu. in.; Wt. = 11.4 oz.**	
MST's BA 050 50 CFM Respiratory Protector[**] **Vol = 49.0 cu. in.; Wt. = 9.3 oz.**	
Company E 75 & 100 CFM Air Filter Vol = 42.7 cu. in.; Wt. = 12.6 oz.	
Company F Air Panel Vol = 0.52 cu. in.; Wt. = NA*	
Company G 50 CFM Air Panels Vol = 8.5 cu. in.; Wt. = 2.3 oz.	
Company G 100 CFM Air Panels Vol = 29.0 cu. in.; Wt. = 8.2 oz.	

Various Manufacturer's Systems

Note: *Impregnated Charcoal Paper – Weight Not Available
** MST's Respiratory Protector Removes Carbon Monoxide (CO)
Please call MST for specific test results.

Leading Competitors

Wall Mount Breathing Air Systems (Non-CO removal)

Model BA100BA-S1

For larger capacity requirements, our wall-mount systems provide extra activated charcoal to remove particulate and coalesce liquids.

Breathing air wall-mount systems are available with four types of electrochemical carbon monoxide monitors. Our Model 2002 has a LED display for CO and comes in a heavy duty enclosure. The Model 5701 monitors both CO and oxygen. The 5700 has an LCD display for CO in ppm. The Model 5800 has green and red LED indicator lights for CO.

Model BA600AAS1

1 Inlet valve

2 Coalescent and particulate removal

3 Activated carbon

4 Extra activated carbon

5 Flow meter

6 CO monitor

7 Pressure regulator with indicating gauge

APPROVED LR 104195
(Note: 5700 monitor approved for Class 1, Div. I, Groups A, B, C & D Hazardous Locations when utilizing only 9 volt batteries.)

Specifications	Model BA020	Model BA50	Model BA100	Model BA200	Model BA600
Rated Air Flow (Max.) @ 100 PSI	20 SCFM (6.9 L/s)	50 SCFM (23.6 L/s)	100 SCFM (47.2 L/s)	200 SCFM (94.4 L/s)	600 SCFM (283.2 L/s)
Operating Pressure	100 PSIG Dynamic (6.9 bar)	100 PSIG Dynamic (6.9 bar)	100 PSIG Dynamic (6.9 bar)	100 PSIG Dynamic (6.9 bar)	100 PSIG Dynamic (6.9 bar)
Inlet Pressure (Max.)	150 PSIG Static (10.4 bar)	150 PSIG Static (10.4 bar)	150 PSIG Static (10.4 bar)	150 PSIG Static (10.4 bar)	150 PSIG Static (10.4 bar)
Outlet Pressure Range	0-125 PSIG (0-8.6 bar)	0-125 PSIG (0-8.6 bar)	0-125 PSIG (0-8.6 bar)	0-125 PSIG (0-8.6 bar)	0-125 PSIG (0-8.6 bar)
Operating Temp. Range	68-150°F (20-65°C)	68-150°F (20-65°C)	68-150°F (20-65°C)	35-150°F (2-65°C)	35-150°F (2-65°C)
Outside Dimensions	16"L x 16"W x 5"D (406mm x 406mm x 127mm)	24"L x 18"W x 5.5"D (610mm x 457mm x 140mm)	24"L x 24"W x 5.5"D (610mm x 610mm x 140mm)	36"L x 36"W x 17"D (915mm x 915mm x 432mm)	36"L x 36"W x 17"D (915mm x 915mm x 432mm)
Weight (Including Monitor)	10 lbs. (5 kg.)	18 lbs. (8.2 kg.)	25 lbs. (11.3 kg.)	72 lbs. (32.7 kg.)	87 lbs. (39.5 kg.)
Replacement Filter Set	FB020	FB050	FB100	FB200	FB600

MST makes a number of additional panels not shown. Call us for full details.