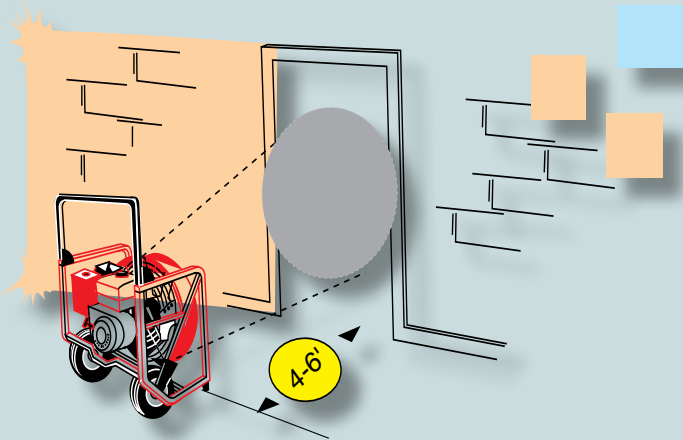


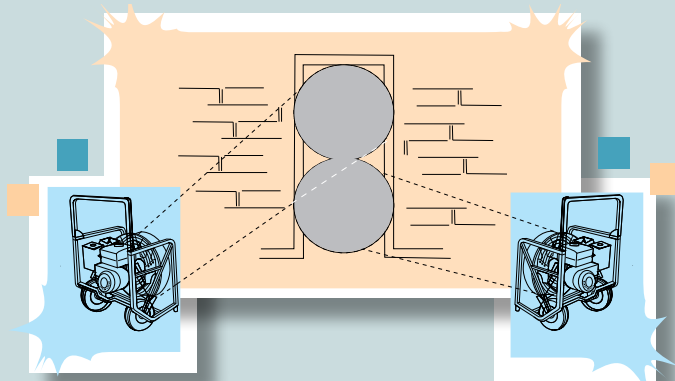
# POSITIVE PRESSURE VENTILATION

## FAN PLACEMENT

Following are guidelines as to the placement of fans for positive pressure applications. As with all such guidelines, one should follow these based on practice and experience.

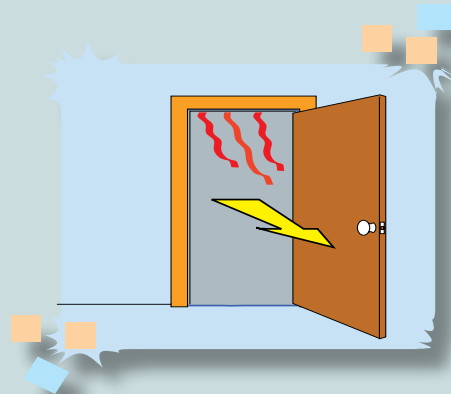


The design of the V-Attack is such that the door is sealed top to bottom with the units at 45° angles. This leaves a straight shot for attack lines.

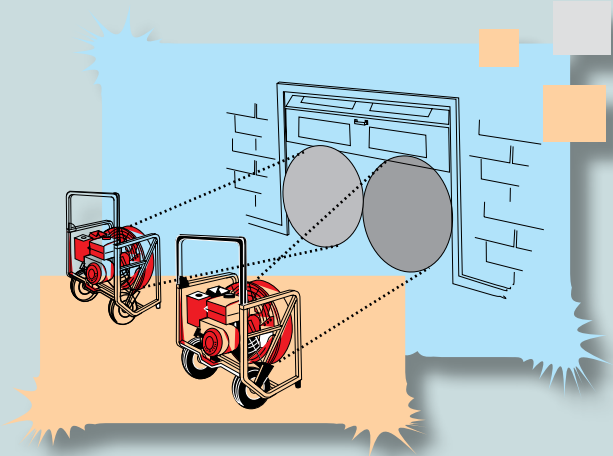


## USE OF DOORS

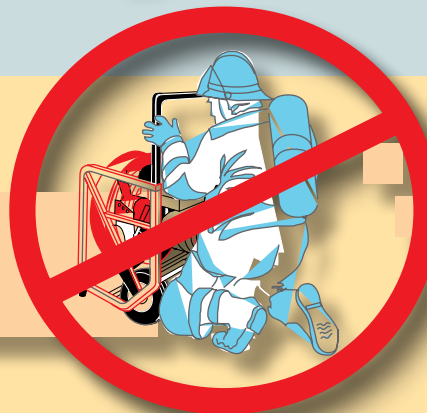
Because fans are not located directly in the doorway for positive pressure operations, the ingress/egress route is not blocked by the fan. Because fans are not in the doorway, fire fighters entering the building should be aware not to stand in the doorway as that will block the incoming air. Streamers can be hung in the doorway to indicate that it is a positive pressure ventilation inlet.



When using a garage door, open it only partway. Then using two fans, seal the doorway with the cones of air.



Do not block the air supply by standing or stooping in back of the fan.



# USE INSTRUCTIONS

## EXTENSION CORDS

Extension cords work in much the same way as fire hoses. More pressure is required for 100 G.P.M. at the end of a 400 foot 1 1/2" hose than for 100 G.P.M. at the end of a 50 foot 1 1/2" hose. The longer the extension cord, the less voltage there is at the workable end. This problem can be overcome by using extension cords with heavier wires which conduct more electricity and result in a lower voltage drop. The voltage drop caused by undersized extension cords usually cuts the performance of the smoke ejector to below the motor name plate specifications.

EXTENSION CORD REQUIREMENTS

SUPER VAC HP	QTY	STARTING WATTAGE REQUIRED	MAXIMUM CABLE EXTENSION LENGTHS						
			Meters Feet	25 50	50 100	75 150	100 200	150 300	200 350
1/3*	1	2000	14 GA						
			12 GA						
			10 GA						
1/2*	1	2000	14 GA						
			12 GA						
			10 GA						
	2	4000	10 GA						
			8 GA						
			10 GA						
	3	6000	8 GA						
			6 GA						
			12 GA						
1*	1	4000	10 GA						
			8 GA						
			10 GA						
	2	8000	8 GA						
			6 GA						
			10 GA						
1 1/2	1	6000	10 GA						
			8 GA						
			6 GA						
	2	12000	8 GA						
			6 GA						
			4 GA						

\*FOR 220 VOLT-FANS, DOUBLE THE MAXIMUM LENGTH CABLE EXTENSIONS SHOWN ABOVE.

**WARNING:** Never exceed cable extension lengths. Always use required wire gauge. Never use reeled or coiled cable. Power supply must handle wattage requirements.

## CORD REELS

Care must be taken when using cord reels to power any portable electric equipment. If the cord is not completely unrolled the unrolled part of the cord produces a counter EMF (electromotive force). The counter EMF in effect reduces the current carrying ability of the cord. If the cord size and length are near the limits recommended above, either pull the entire length of cord off the reel when using portable equipment or replace the cord with a larger cord.



## SUPER VAC'S SMOKE VENTILATION TRAINING MANUAL

*Free to Fire Departments and Training Institutions*



The Training Manual comes complete with Chapters on Ventilation Theory, Negative Pressure Ventilation, Positive Pressure Ventilation, Special Situations (High Rise Buildings, Heavier than Air gases, Confined Space Ventilation, etc.) and General Use Instructions. It is designed to help you understand how ventilation can best work in various situations and to help you set up training scenarios that teach proper ventilation concepts. With over 50 years experience supplying quality products to the fire and rescue market, we pack real world knowledge of emergency ventilation into every page.

Super Vac fans are warranted for 5 years from date of purchase. Electric motors and gasoline engines have separate manufacturer's warranty. Super Vacuum Manufacturing Co., Inc. reserves the right to make changes in specifications without notice.



**SUPER VAC**  
THE VENTILATION SPECIALISTS

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