

	Cincinnati Fire Department Fire Training Supplement DRILL BOOK	SECTION #5 Tools and Equipment
Date: January 2006 Section #: 5	TOPIC TITLE: Electric Ventilating Fan	Total Pages: 1 Topic #: 7

ELECTRIC VENTILATING FAN

Use and Description:



- Each Ladder Company is issued an electric fan which is used primarily as a negative pressure ventilating fan.
- The fan is equipped with an explosion-proof motor to allow its use in potentially explosive atmospheres. Remember that connections with extension cords should be made prior to making connection with the power source, so that sparks during those connections are eliminated.
- This fan will move approximately 5200 cubic feet of air per minute (CFM). This is the amount of air in a room approximately 20' X 25' with a 10' ceiling.
- If a generator is to be used to power the fan, the initial draw is 30 to 35 amps (1500 to 2000 watts). After starting, the fan requires 6.6 amps (621 watts) to run. This will determine the amount of other electrical equipment that can be powered by the generator, depending of its specifications.

Maintenance:

- Immediately following its use and before turning off, hose the fan down.
- Products of combustion will still be relatively easy to remove at this time. If these products are allowed to cool, they will be harder to clean.
- The fan blades and fan guards are to be kept clean. They may be scrubbed with a brush using detergent and water. If necessary, use a solvent to clean the blades.
- Do not use sharp tools such as knives or screwdrivers to scrape the blades. This can score the blades and can cause the fan to be out of balance. Fan guards are not interchangeable. Replace fan guards with the rings out and the spot welds on the rings in.