

# Generator Usage with Unifire Electric Blowers

## WARNING

It is important to use the proper sized generator when powering a blower. Using an undersized generator may cause damage to the blower motor. Please refer to the following formula as a guideline for choosing a generator and/or contact the generator manufacturer for further information.

## CAUTION

MOTORS MISAPPLIED IN HAZARDOUS ENVIRONMENTS CAN CAUSE A FIRE OR EXPLOSION RESULTING IN DISTRUCTION OF PROPERTY, SERIOUS INJURY OR DEATH.

WATTS = VOLTS x AMPS	AMPS = WATTS ÷ VOLTS	VOLTS = WATTS ÷ AMPS
Blower H.P. x .746 = KW	3 x KW = KW required to startup and run the motor.	

- Always size up to the next size generator, i.e. if final calculation comes out to 1.6 KW use a 1.75 KW vs. a 1.5 KW.
- Always use the largest available power cords.
  - Please note that the longer your hose the more the power will degrade before it gets to the end. This can be overcome by using heavier gauge extension cords. Below is a table for recommended extension cords.
- Avoid connecting other components / tools to the generator.
  - If other tools or such are used always start up the unit that requires the most power first.

## RECOMMENDED EXTENSION CORDS

FANS		STARTING WATTAGE REQUIRED	WIRE GAUGE FEET	MAXIMUM CABLE EXTENSION LENGTHS						
HP	QTY			50	100	150	200	250	300	350
1/3	1	2000	14 GA	50	100	150	200	250	300	350
			12 GA	50	100	150	200	250	300	350
			10 GA	50	100	150	200	250	300	350
1/2	1	2000	14 GA	50	100	150	200	250	300	350
			12 GA	50	100	150	200	250	300	350
			10 GA	50	100	150	200	250	300	350
	2	4000	12 GA	50	100	150	200	250	300	350
			10 GA	50	100	150	200	250	300	350
			8 GA	50	100	150	200	250	300	350
	3	6000	10 GA	50	100	150	200	250	300	350
			8 GA	50	100	150	200	250	300	350
			6 GA	50	100	150	200	250	300	350
1	1	4000	12 GA	50	100	150	200	250	300	350
			10 GA	50	100	150	200	250	300	350
			8 GA	50	100	150	200	250	300	350
	2	8000	10 GA	50	100	150	200	250	300	350
			8 GA	50	100	150	200	250	300	350
			6 GA	50	100	150	200	250	300	350
1 1/2	1	6000	10 GA	50	100	150	200	250	300	350
			8 GA	50	100	150	200	250	300	350
			6 GA	50	100	150	200	250	300	350
	2	12000	8 GA	50	100	150	200	250	300	350
			6 GA	50	100	150	200	250	300	350
			4 GA	50	100	150	200	250	300	350

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

\*\*IT IS STRONGLY RECOMMENDED THAT 10 GAUGE EXTENSION CORD IS USED AS A MINIMUM.