

Wire Sizing

Wire sizing is important to the operation of the unit. Use the following check list when selecting the appropriate wire size for your unit.

- Wire size must carry Minimum Circuit Ampacity (MCA)
- Wire sized for no more than 2% voltage drop from the building breaker/fuse panel to the unit.

Refer to the latest edition of the National Electric Code or in Canada, the Canadian Electric Code when determining the correct wire size. The following table shows the current carrying capabilities of copper conductors rated at 75°C with a 2% voltage drop. Use Table 2 to determine the voltage drop per foot of various conductors.

Table 2

Wire Size (AWG)	Maximum allowable length in feet to Limit Voltage Drop to 2%							
	Minimum Circuit Ampacity (MCA)							
	10	15	20	25	30	35	40	45
14	75	50	37	NR	NR	NR	NR	NR
12	118	79	59	47	NR	NR	NR	NR
10	188	125	95	75	63	54	NR	NR
8	301	201	150	120	100	86	75	68
6	471	314	235	188	157	134	118	110

* Reference NEC 1996