

# ACiQ Condenser Amperage Chart

Condenser Model	MCA	MOCP	Recommended Circuit Protection	Recommended Wire AWG	Kit Recommended
ACiQ-18Z-HP230B	15	20	20 Amps	10	MSK001
ACiQ-18ZPL-HP230B	20	25	20 Amps	10	MSK001
ACiQ-24-HPB	20.5	35	30 Amps	10	MSK001
ACiQ-24Z-HP230B	19	30	30 Amps	10	MSK001
ACiQ-24ZPL-HP230B	25	35	30 Amps	10	MSK001
ACiQ-27Z-HH-M3B	25	40	30 Amps	10	MSK001
ACiQ-36-HPB	41	50	50 Amps	6	None Currently
ACiQ-36Z-HH-M4B	40	60	40 Amps	8	None Currently
ACiQ-36Z-HP230B	28	35	30 Amps	10	MSK001
ACiQ-48-HPB	42	50	50 Amps	6	None Currently
ACiQ-48Z-HH-M5B	42	50	50 Amps	6	None Currently

Wire Size (AWG)	Temperature Rating of Conductor		
	60°C	75°C	90°C
14	15 Amps	20 Amps	25 Amps
12	20 Amps	25 Amps	30 Amps
10	30 Amps	35 Amps	40 Amps
8	40 Amps	50 Amps	55 Amps
6	55 Amps	65 Amps	75 Amps

The above information is from the 2023 version of the NFPA-70 Table 310.16

Units Highlighted Cannot Use 10 AWG

## Important Notes

Recommended Wire AWG is based off of the system's Minimum Circuit Ampacity. It assumes the wire being used is copper wire run in non-metallic cabling with a maximum of three current-carrying conductors and an ambient temperature of 86 °F. Table 310.16 of the 2023 NFPA-70 was referenced for data.

Please reference Table 310.15(C)(1) of the 2023 NFPA-70 if there are more than three current-carrying conductors in the cable or raceway. This will be unlikely for this application.

Please reference Table 310.15(B)(1)(1) of the 2023 NFPA-70 for ambient temperatures other than 86 °F.

When using non-metallic cabling (i.e. a plastic whip) you must use the 60°C table for amperage in accordance with Article 334.80 of the 2023 NFPA-70.

Wires must be sized by the minimum temperature rating of any conductor in the circuit. For example even if a wire rated at 75°C is used it cannot be assumed that the 75°C table can be used for amperage. If the breaker, disconnect lugs, or any part of the circuit is rated at 60°C than that table must be used.

If you cannot find any marking on a wire or termination stating the temperature rating you must assume it is the lowest rating, which is 60°C.

## WARNING

Always check your local jurisdiction's laws before attempting to do electrical work. The law in your local jurisdiction may be different than what is presented here. Only allow a licensed professional to perform electrical work on equipment.

