

# ELECTRICAL CALCULATIONS

| SINGLE POINT POWER QUALIFICATIONS |               |
|-----------------------------------|---------------|
| ELECTRIC HEAT VOLTAGE             | MOTOR VOLTAGE |
| 115/1/60                          | 115/1/60      |
| 208/1/60                          | 208/1/60      |
| 230/1/60                          | 230/1/60      |
| 277/1/60                          | 277/1/60      |

| HEATER AMP CALCULATION |             |
|------------------------|-------------|
| VOLTAGE                | AMPS PER KW |
| 115/1/60               | 8.70        |
| 208/1/60               | 4.81        |
| 230/1/60               | 4.35        |
| 277/1/60               | 3.61        |

| MOTOR AMPERAGE |      |     |      |      |      |      |
|----------------|------|-----|------|------|------|------|
| Unit Size      | HP   | QTY | 115V | 208V | 230V | 277V |
| 20             | 1/30 | 1   | 0.8  | 0.6  | 0.6  | 0.3  |
| 25             | 1/15 | 1   | 1.1  | 0.5  | 0.5  | 0.5  |
| 30             | 1/10 | 1   | 1.9  | 0.8  | 0.8  | 0.8  |
| 40             | 1/6  | 1   | 2.5  | 1.4  | 1.4  | 1.0  |
| 50             | 1/8  | 1   | 1.7  | 0.9  | 0.9  | 0.8  |
|                | 1/6  | 1   | 2.5  | 1.4  | 1.4  | 1.0  |
| 60             | 1/6  | 2   | 5.0  | 2.8  | 2.8  | 2.0  |

**NOTE:** Size 60 amperage data is total Amps for two motors.

## NOTES:

1. Refer to MCA / MOP Calculator for MCA and/or MOP calculations.
2. Non-Fused Door Interlock Disconnect Switch shall be sized according to MCA.
3. Fused Door Interlock Disconnect Switch and Main Fusing shall be sized according to MOP.