

Minimum Recommended Wire and Conduit Sizes

Typical Power Unit Installations

For reference purposes only. Always check local and national codes. PSI Waste is not responsible for the use of this information. Remember- the inspector is the BOSS! To report inaccuracies, please e-mail to kevin@psiwaste.com . Thanks!

| Motor | Voltage | Length of Run | | | | |
|-------------|---------|---------------|-----------------|----------|----------|----------|
| | | 20 Feet | | 100 Feet | 200 Feet | 300 Feet |
| | | Gauge | Minimum Conduit | Gauge | Gauge | Gauge |
| 3 Hp, 1 Ph | 208 | 10 | 1/2" | 6 | 4 | 2 |
| | Ground | 12 | | 6 | 4 | 2 |
| | 230 | 10 | 1/2" | 10 | 6 | 4 |
| | Ground | 12 | | 10 | 6 | 4 |
| 3 Hp, 3 Ph | 208 | 12 | 1/2" | 10 | 6 | 6 |
| | Ground | 12 | | 12 | 10 | 8 |
| | 230 | 12 | 1/2" | 12 | 10 | 8 |
| | Ground | 12 | | 12 | 12 | 6 |
| | 460 | 12 | 1/2" | 12 | 12 | 12 |
| | Ground | 12 | | 12 | 12 | 12 |
| 5 Hp, 1 Ph | 208 | 8 | 3/4" | 6 | 2 | 1 |
| | Ground | 10 | | 8 | 4 | 3 |
| | 230 | 8 | 3/4" | 8 | 4 | 3 |
| | Ground | 10 | | 10 | 6 | 4 |
| 5 Hp, 3 Ph | 208 | 12 | 1/2" | 8 | 4 | 3 |
| | Ground | 12 | | 8 | 4 | 3 |
| | 230 | 12 | 1/2" | 12 | 8 | 6 |
| | Ground | 12 | | 12 | 8 | 6 |
| | 460 | 12 | 1/2" | 12 | 12 | 12 |
| | Ground | 12 | | 12 | 12 | 12 |
| 10 Hp, 1 Ph | 208 | 4 | 1" | 3 | 1/0 | 3/0 |
| | Ground | 8 | | 8 | 6 | 4 |
| | 230 | 6 | 1" | 4 | 3 | 1 |
| | Ground | 8 | | 8 | 6 | 4 |
| 10 Hp, 3 Ph | 208 | 8 | 3/4" | 6 | 2 | 1/0 |
| | Ground | 10 | | 8 | 4 | 2 |
| | 230 | 8 | 3/4" | 8 | 6 | 4 |
| | Ground | 10 | | 10 | 8 | 6 |
| | 460 | 12 | 1/2" | 12 | 10 | 10 |
| | Ground | 12 | | 12 | 10 | 10 |
| 15 Hp, 3 Ph | 208 | 6 | 3/4" | 3 | 1/0 | 3/0 |
| | Ground | 8 | | 6 | 4 | 2 |
| | 230 | 6 | 1" | 6 | 4 | 2 |
| | Ground | 8 | | 10 | 8 | 6 |
| | 460 | 10 | 1/2" | 10 | 10 | 8 |
| | Ground | 10 | | 10 | 10 | 8 |
| 20 Hp, 3 Ph | 208 | 4 | 1" | 3 | 1/0 | 3/0 |
| | Ground | 8 | | 8 | 6 | 4 |
| | 230 | 6 | 1" | 6 | 3 | 2 |
| | Ground | 8 | | 10 | 6 | 6 |
| | 460 | 10 | 1/2" | 10 | 8 | 8 |
| | Ground | 10 | | 10 | 8 | 8 |

For easier installation on longer runs, use larger conduit size.