Tempco’s Control Panels are built using NEMA 12 manufactured enclosures. Tempco can also design and manufacture panels to other standard NEMA ratings as described below.

The Standard NEMA Enclosure Definitions are listed for your convenience. Also included are comparison charts for indoor and outdoor enclosures.

Include the NEMA Enclosure Rating required on your Request for Quote.

### Type 1 General Purpose
Enclosures are intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment in locations where unusual service conditions do not exist.

### Type 3 Weather Resistant & Windblown Dust Resistant
Enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust, rain, and sleet; and to be undamaged by the formation of ice on the enclosure.

### Type 3R Weather Resistant
Enclosures are intended for outdoor use primarily to provide a degree of protection against falling rain and sleet, and to be undamaged by the formation of ice on the enclosure.

### Type 4 Moisture & Windblown Dust Resistant
Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, and hose-directed water; and to be undamaged by the formation of ice on the enclosure.

### Type 4X Moisture & Corrosion Resistant
Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, and hose-directed water; and to be undamaged by the formation of ice on the enclosure.

### Type 7 Explosion Resistant
Enclosures are capable of withstanding the pressures resulting from an internal explosion of specified gas, and containing such an explosion sufficiently that an explosive gas-air mixture existing in the atmosphere surrounding the enclosure will not be ignited.

### Type 12 Resistant to Dirt & Dripping Non-Corrosive Liquids
Enclosures are intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping non-corrosive liquids.

### Standard Supplied Enclosure: Type 12
Five-stage heater control panel with PC controlled SCR for Class 8 truck wind tunnel testing.