



1.1 Description of Ambient Distribution Panel

This ambient distribution panel has been specifically designed for use in freeze protection heat tracing systems operating in conjunction with a single control source. This control

source can be in the form of an ambient thermostat, snow sensing controller or any similar device. The ambient distribution panel can operate in two modes, automatically

with the use of a control device or in manual override. The panel can also be completely turned off during off-season periods.

1.2 Description of System Components

The ambient distribution panel is supplied in a NEMA 4 or 4X enclosure that can be wall or rack mounted. Standard versions are available in 12, 30 and 42 -pole options, both three-phase and single-phase. Branch breakers are bolt-on

type and available in standard trip or ground fault equipment protection devices. Main breaker and contactor combinations are selectable from 100 Amp up to a maximum of 225 Amp. The panel is supplied with a three-position selector switch; power

available indicating light and a panel energized indicating light. Options are provided for external door disconnect and integral ambient temperature sensing thermostat

1.3 Standard Features

Enclosures:

- NEMA 4 Powder Coated Steel
- NEMA 4X Stainless Steel

Voltage Options:

- 120/208 Three Phase Power
- 120/240 Single Phase Power

Branch Circuit Breakers:

- 1-Pole, 15-40A Standard
- 1-Pole, 15-30A GFEPD
- 2-Pole, 15-40A Standard
- 2-pole, 15-40A GFEPD

Main Bus Sizes:

- 12-Pole Option, 100A
- 30-Pole Option, 225A
- 42-Pole Option, 225A

NELSON TYPE AP-240VAC MAXIMUM

SPECIFICATION/APPLICATION

NELSON AMBIENT/CONTACTOR CONTROLLED DISTRIBUTION PANEL

INFORMATION

