

# ETC Application Note

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Application Note #

**110**

ETC Application Notes are designed to provide specific helpful information regarding ETC's technology or about solving a problem using ETC equipment.

If you need further assistance or information on this subject or any other, please contact ETC at 1-800-688-4116 or visit our web site at [www.etconnect.com](http://www.etconnect.com).

## Unison ERn Control Enclosure BTU Information

With growing concern for energy conservation and energy codes, properly calculating heating and cooling requirements for electrical room equipment becomes important for many new installations. Included in this document are typical Unison ERn enclosure worst case BTU outputs. **All calculations are worst case based on full load of all included components.**

### Typical 120 Volt ERn Enclosures (ERn2 or ERn4) including:

- One (1) Paradigm Architectural Control Processor (P-ACP)
- One (1) Paradigm Station Power Module (P-SPM)

**Typical BTU = 173**

*Note: Adding an Ethernet Switch (ERn-NET) or Redundant Power Supply (ERn-RPS) option module to the option slot will increase the BTU output to **215***

### Typical 120 Volt ERn4 Enclosures including:

- Two (2) Paradigm Architectural Control Processors (P-ACP)
- Two (2) Paradigm Station Power Modules (P-SPM)

**Typical BTU = 299**

*Note: Adding an Ethernet Switch (ERn-NET) or Redundant Power Supply (ERn-RPS) option module to the option slot will increase the BTU output to **341***

### Typical 240 Volt ERn Enclosures (ERn2 or ERn4) including:

- One (1) Paradigm Architectural Control Processor (P-ACP)
- One (1) Paradigm Station Power Module (P-SPM)

**Typical BTU = 225**

*Note: Adding an Ethernet Switch (ERn-NET) or Redundant Power Supply (ERn-RPS) option module to the option slot will increase the BTU output to **266***

### Typical 240 Volt ERn4 Enclosures including:

- Two (2) Paradigm Architectural Control Processors (P-ACP)
- Two (2) Paradigm Station Power Modules (P-SPM)

**Typical BTU = 351**

*Note: Adding an Ethernet Switch (ERn-NET) or Redundant Power Supply (ERn-RPS) option module to the option slot will increase the BTU output to **392***

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### Typical 230 Volt CE ERn Enclosures (ERn2) including:

- One (1) Paradigm Architectural Control Processor (P-ACP)
- One (1) Paradigm Station Power Module (P-SPM)

**Typical BTU = 225**

*Note: Adding an Ethernet Switch (ERn-NET) or Redundant Power Supply (ERn-RPS) option module to the option slot will increase the BTU output to **266***

### Typical 230 Volt CE ERn4 Enclosures including:

- Two (2) Paradigm Architectural Control Processors (P-ACP)
- Two (2) Paradigm Station Power Modules (P-SPM)

**Typical BTU = 392**

*Note: 230 Volt CE ERn enclosures do not support the addition of an Ethernet Switch (ERn-NET) or Redundant Power Supply (ERn-RPS) option module.*