



# REFRIGERATION

**RANCO**



ETC-111000-000

## ELECTRONIC CONTROLS

### ETC Series

The Ranco® ETC Series Electronic Temperature Control offers a full-featured electronic replacement for electrical-mechanical temperature controls used in many commercial refrigeration applications. With its wide temperature range, one and two stage capability, selectable heating/cooling modes and multi-voltage input, the ETC is designed to provide application flexibility. Models available include 120/208/240V AC and 24V AC.

### Features and Benefits

- Wide temperature range -30°F to 220°F (-34,4°C to 104,4°C)
- Wide differential adjustment 1°F to 30°F (-17°C to -1°C)
- LCD read-out for sensor temperature, control settings, and relay status
- High Amp output relay (FLA 16 Amps @ 120V AC and 8 Amps @ 208/240V AC) single stage
- EEPROM memory retains control settings during power outages
- Keypad lockout to prevent end-user alteration of settings
- 8 foot lead with sensor is extendable up to 400 feet using 18 or 22-gauge thermostat wire
- Easy 4-step set-up
- Heavy-duty relay is 1 HP rated
- Selectable °F or °C heating/cooling modes
- Single and two stage models
- NEMA 1 case and cover
- NEMA 4X models available
- White backlight on display
- Sensor rated IP67 for dust and water (<1m) resistance





## Specifications

| Part Numbers   | Description  | Number of Stages | Enclosure Type | Temperature Range                  | Differential Range           | Electrical Rating | 0 to 10 Volt Output |
|----------------|--|------------------|----------------|------------------------------------|------------------------------|-------------------|---------------------|
| ETC-111000-000 | Electronic Temperature Control                                   | One              | NEMA 1         | -30°F to 220°F<br>(-34°C to 104°C) | 1°F to 30°F<br>(1°C to 16°C) | 120/208/240V AC   | No                  |
| ETC-111100-000 | Electronic Temperature Control                                   | One              | NEMA 1         | -30°F to 220°F<br>(-34°C to 104°C) | 1°F to 30°F<br>(1°C to 16°C) | 120/208/240 V AC  | No                  |
| ETC-112000-000 | Electronic Temperature Control                                   | One              | NEMA 1         | -30°F to 220°F<br>(-34°C to 104°C) | 1°F to 30°F<br>(1°C to 16°C) | 24V AC            | No                  |
| ETC-141000-000 | Electronic Temperature Control                                   | One              | NEMA 4X        | -30°F to 220°F<br>(-34°C to 104°C) | 1°F to 30°F<br>(1°C to 16°C) | 120/208/240 V AC  | No                  |
| ETC-211000-000 | Electronic Temperature Control                                   | Two              | NEMA 1         | -30°F to 220°F<br>(-34°C to 104°C) | 1°F to 30°F<br>(1°C to 16°C) | 120/208/240 V AC  | No                  |
| ETC-212000-000 | Electronic Temperature Control                                   | Two              | NEMA 1         | -30°F to 220°F<br>(-34°C to 104°C) | 1°F to 30°F<br>(1°C to 16°C) | 24V AC            | No                  |
| ETC-241000-000 | Electronic Temperature Control                                   | Two              | NEMA 4X        | -30°F to 220°F<br>(-34°C to 104°C) | 1°F to 30°F<br>(1°C to 16°C) | 120/208/240 V AC  | No                  |
| 1309007-044    | Thermistor Sensor, 2" long x 1/4" diameter with 8' #22 AWG cable | NA               | NA             | NA                                 | NA                           | NA                | NA                  |

## Relay Electrical Ratings

| Single Stage Models |             |                   | Two Stage Models |             |
|---------------------|-------------|-------------------|------------------|-------------|
| 120V AC             | 208/240V AC | NO Contact        | 120V AC          | 208/240V AC |
| 16 Amps             | 8 Amps      | Full-load Amps    | 9.8 Amps         | 4.9 Amps    |
| 96 Amps             | 48 Amps     | Locked Rotor Amps | 58.8 Amps        | 29.4 Amps   |
| 15 Amps             | 8 Amps      | Resistive Amps    | 9.8 Amps         | 4.9 Amps    |
| 1 HP                | 1 HP        | Horsepower        | 1/2 HP           | 1/2 HP      |
| 120V AC             | 208/240V AC | NC Contact        | 120V AC          | 208/240V AC |
| 5.8 Amps            | 2.9 Amps    | Full-load Amps    | 5.8 Amps         | 2.9 Amps    |
| 34.8 Amps           | 17.4 Amps   | Locked Rotor Amps | 34.8 Amps        | 17.4 Amps   |
| 5.8 Amps            | 2.9 Amps    | Resistive Amps    | 5.8 Amps         | 2.9 Amps    |
| 1/4 HP              | 1/4 HP      | Horsepower        | 1/4 HP           | 1/4 HP      |

**1** Year Limited Warranty



## REFRIGERATION MERCHANDISING KIT

### Ranco Universal Parts Center Merchandising Display Series

The Ranco® Universal Parts Center Merchandising Display is a high-quality, semi-permanent, two-sided display designed to maximize floor space and entice additional purchases. Each kit comes fully loaded with popular refrigeration products, helpful literature and full-color graphics.

#### Features and Benefits

- Eye-catching display ships fully loaded and ready to roll on to the showroom floor
- Quick and simple way to increase your floor space
- High quality, semi-permanent, two sided floor display features casters for easy movement
- Display features colorful signage, all new Ranco packaging and helpful tools for contractors
- Merchandiser will stimulate interest and entice additional purchases
- Minimal floor space with maximum sales opportunities



### Specifications

| Part Numbers     | Description  |
|------------------|--|
| UPC-RC-C<br>(NA) | Ranco Universal Parts Center Merchandising Display |

### UPC-RC-C Kit includes the following products:

- |  |   |
|--|---|
| 2 Single Low Pressure Controls O10-1483              | 1 Constant Differential Temperature Control A30-301               |
| 1 Single Low Pressure Control O10-1402               | 1 Refrigerant Hose 1290132-A24                                    |
| 2 Single High Pressure Controls O10-2054             | 1 Reversing Valve V2-408060-170                                   |
| 1 Single High Pressure Control O16-108               | 1 Reversing Valve 24V Solenoid Coil LDK-110000-070                |
| 1 Dual Pressure Control O12-4834                     | 1 Solenoid Valve 1068UL/3S  |
| 1 Dual Pressure Control O12-1549                     | 1 Solenoid Valve Coil - 120V 9105/RA4                             |
| 1 Lube Oil Protection Control P30-5826               | 1 Solenoid Valve Connector 9150UL/R02                             |
| 2 Electronic Temperature Controls ETC-111000-000     | 1 Moisture Indicator 3940/3                                       |
| 1 Wide Range Temperature Control O10-1409            | 1 Solid Core Filter Drier 4303/3S                                 |
| 2 Constant Cut-in Temperature Controls A12-701       | 25 Literature pieces - Ranco Pressure Temperature Chart 150-2428C |
| 2 Constant Cut-in Temperature Controls A12-700       |   |
| 1 Constant Cut-in Temperature Control A12-1560       |   |
| 1 Constant Differential Temperature Control A30-2210 |   |
| 1 Constant Differential Temperature Control A30-261  |   |