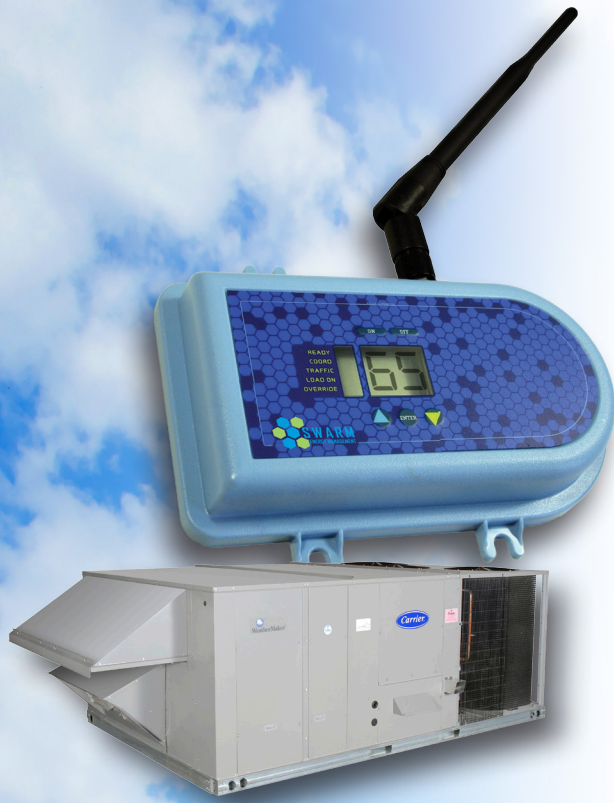


# Carrier Energy Demand System

## Automated Energy Management

### Specification Sheet



The Energy Demand System is as easy to install as thermostats, and requires no special training. Every controller has a built-in self-configuring wireless network. The controllers work together to establish a wireless network, eliminating the need for expensive wiring. The secure web portal allows property managers to easily access multiple sites from any internet connection to monitor building performance and reconfigure controllers for demand response or the scheduling of loads.

#### Installation

- Inclusive kit contains all necessary parts for installation
- Screw-mount using screw tabs
- Pre-kitted with 4 feet of 12 individual leads for easy connection
- 2 Clamp-on current sensors

#### Communications

- 2.4 GHz band (2405MHz – 2480MHz) channel selectable
- Microchip MRF24J40 transceiver
- External modem capability to send monitoring data or receive control requests
- Antenna allows up to 875 yards (800 metres) communication distance between controllers
- Repeater functionality to extend range of network
- Magnetic mount extension for antenna

#### Enclosure

- Weatherproof, flame retardant plastic
- Dimensions (in inches/cm – see figure)
  - A: 4.27/10.85
  - B: 6.25/15.89
  - C: 1.17/2.98

#### Power Supply

- 208/230/460V or 575V to 24VAC transformer
- 50 VA capacity
- Primary/Secondary wire leads

#### Control

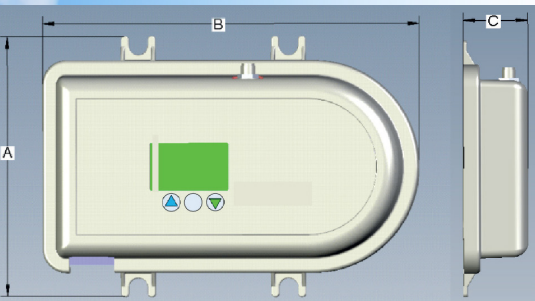
- Microchip PIC18LF8723 microcontroller
- 2 dry contact relays:
  - Internal relay (30VAC) controls indoor fan signal.  
(Note: Gateway controllers do not allow use of this relay)
  - Externally mounted 4 pole double throw (4PDT) relay (10A/825VA) controls cooling and heating signals
- 0 – 100 percent duty cycle settings

#### Sensors

- 2 split core current transformers (0.6" diameter opening)
- Up to 600VAC monitoring
- 0 – 60 Amps per phase current monitoring

#### Certification

- FCC and IC Certified
- UL and C-UL Certified



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