

**Date:** May 13, 2013

**To:** Daikin Sales, Service and Distribution  
**Subject:** The Daikin ENVi Thermostat kit DACA-TS1-1

Daikin AC is pleased to announce the Daikin ENVi Thermostat kit. The Daikin ENVi can be used with the Single-Split system, Multi-Split system (2-8 port), and SkyAir FXTS indoor unit. Applicable indoor unit models are:

CTXS, FTXS, FTXN (KRP980B1 interface adapter required for 09/12 J(K)EVJU), CDXS, FDXS

The Daikin ENVi Thermostats are now available for ordering and shipping will start July 2013.

Sales support documents are available on TRL FTP site.

- Installation Manual and User Manual
- Sales Preso
- Quick User Reference Guide (available by end of May)
- Installation Guide (available by end of May)



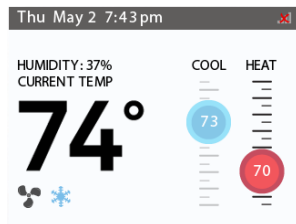
Training Classes will cover the Daikin ENVi starting June 2013.

See [www.daikinuniversity.com](http://www.daikinuniversity.com)

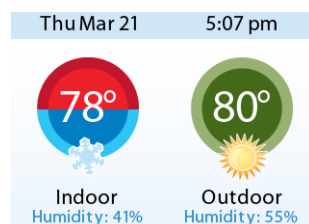
- RLC Product and Application (Sales training)
- RLC Install and Commissioning (Commission training)

## Daikin ENVi Thermostat Overview

The Daikin ENVi Thermostat is the newest addition to Daikins residential/light commercial controls offerings. The Daikin ENVi has an easy-to-read backlit color LCD screen that displays all the information you need. Use the navigation buttons to quickly change the temperature, access features, and configure settings.



Temperature Setting



Ambient Display

Monday			
	Time	Heat	Cool
Awake at	6:00 am	70°	73°
Away at	8:00 am	65°	80°
Home at	12:00 pm	70°	73°
Sleep at	10:00 pm	65°	80°

Add New  
Save and Continue

Weekly Schedule

4 Day Weather Forecast			
Fri	Sat	Sun	Mon
H96° L87°	H90° L85°	H88° L85°	H81° L75°
Mainly Sunny	Thunder Storm	Sunny	Partly Cloudy
POP 20% HUM 60%	POP 80% HUM 90%	POP 0% HUM 60%	POP 20% HUM 70%

24 Hour Forecast

Weather Forecast

Daikin AC (Americas), Inc.  
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The Daikin ENVI Thermostat calls for cooling / heating based on the room temperature sensed by the thermostat, and controls the Daikin indoor unit to maximize the inverter capabilities.

The following features are available:

- Cool, Heat, and Auto mode with dual setpoints
  - Adjustable changeover band in Auto mode
- Fan On/Auto
  - Minimum Fan On time for improved air circulation
  - Fan speed, and Louver direction
- Weekly setback scheduling
  - Optimum start
  - Hold, Quick save, and Vacation settings
- AUX heater control
  - Supplemental heat for Heat Pump, Aux Heater Only, and Primary Heat for Cooling Only system
- High/Low Temperature Alerts (On screen/Web/Email)
  - Good for server/mechanical room application
- System Error Alerts (On screen/Web/Email)
  - Error code with plain text explanation



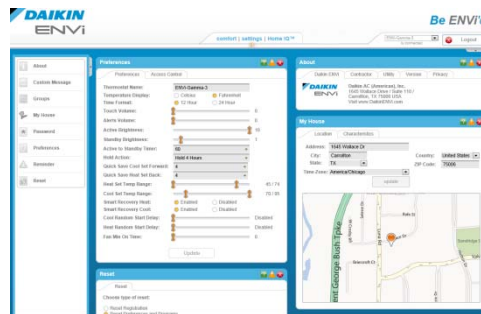
### User Web Portal / Mobile Apps

The Daikin ENVI supports Wi-Fi connectivity that can be used to monitor and control the Daikin indoor units from the customers PC, smart phone, and/or tablet with internet access. This will provide our customer with the ability to monitor and control their Daikin system from where ever they are.

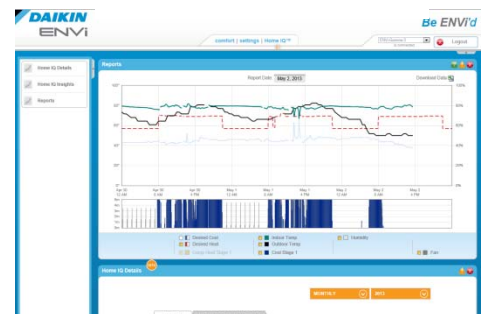
- User Web Portal access via [www.DaikinENVI.com](http://www.DaikinENVI.com) free of charge
- Daikin ENVI apps available for Apple, Android, and Blackberry devices free of charge



Comfort / Schedule Settings



Preference Settings



HVAC Operation Report

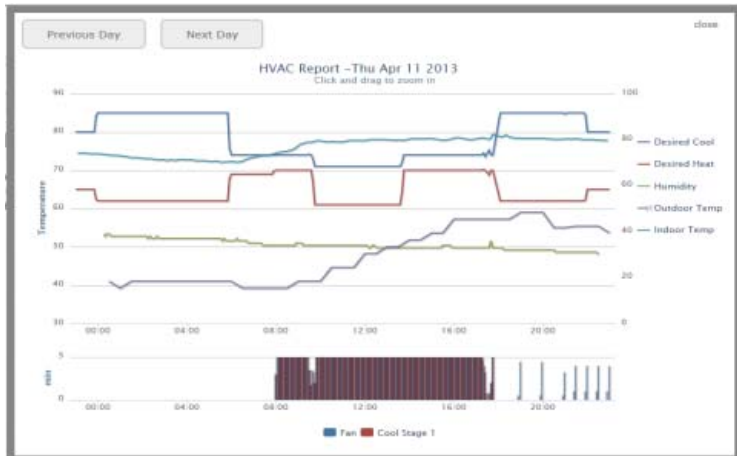


Mobile App –  
Apple/Android/Blackberry

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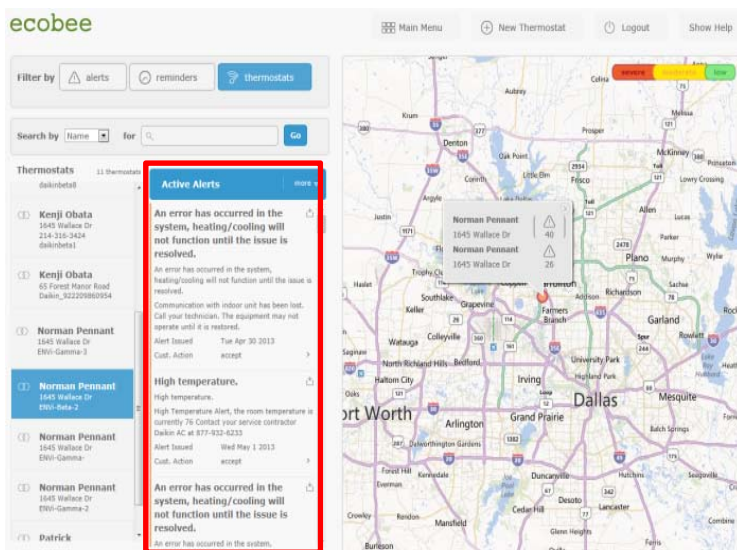
## Contractor Web Portal

The Daikin ENVi also provides Dealers with a Contractor Web Portal free of charge. This is an online tool that makes it even easier for Dealers to provide proactive support to their customers, which in turn will deepen their relationship with their customers, and grow their business! Our dealers will be able to easily register their customers on the portal with the serial number sticker provided in the Daikin ENVi Thermostat kit. The Dealers will have access to:



- HVAC Reports

- Access customer's HVAC Reports for remote troubleshooting and diagnostics
- Items shown on the report are:
  - Cool and heat setpoints
  - Room temp and humidity
  - Outdoor temp
  - Operation time



- Alerts / Reminders

- Notifies Dealer when Alerts/Errors are generated on customer's equipment. Map shows customer location and Alert/Error Count.
- The HVAC Service (maintenance) reminder generates an alert telling the dealer that a regularly scheduled maintenance is required.
- Send branded Service Reminders to their customers based upon their preferred service schedule

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**ENVi Thermostat****Setpoint Range**

Heat Setpoint Range	45 - 80°F (7 - 26.5°C)
Cool Setpoint Range	65 - 95°F (18.5 - 35°C)

**Display Range**

Temperature	40 - 100°F (5 - 37°C)
Sensitivity	± 1°F (0.5°C)

Humidity	20 to 90% RH
Sensitivity	± 5% RH

**Specifications**

Maximum Indoor Units	1
Temperature Operating Range	32 - 130°F (0 - 55°C)
Humidity Operating Range	5 - 95% R.H (non-condensing)
Aux Heater Relay	1
Electrical Rating	30VAC, Max Current 3A
Power	24 VAC (3VA maximum) (provided from the DPCA)
Battery Backup	CR2032 - 3V lithium coin cell

Display	2.5" full-color LCD 320 x 240 pixel resolution
Wi-Fi	802.11 b,g,n wireless routers WEP 64, WEP 128, WPA, and WPA 2 encryption methods DHCP (dynamic) or Static IP addressing 168 bit SSL encryption
Dimensions (W x H x D)	5.5 x 3.25 x 1 inches (139.5 x 82.5 x 25 mm)

**Wiring**

Wire Specification	18 AWG	20 AWG	22 AWG
Thermostat to DPCA	1250 ft. (380 m)	800 ft. (240 m)	500 ft. (150 m)

Regulatory	FCC Part 15 Class B / FCC ID: XF6-RS91-10N1102 / IC: 8407A-91101102
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**DPCA**

Temperature Operating Range	20 - 140 °F (-7 - 60°C)
Humidity Operating Range	5 to 95% R.H (non-condensing)
Power	208/230 VAC (provided from Indoor Unit)

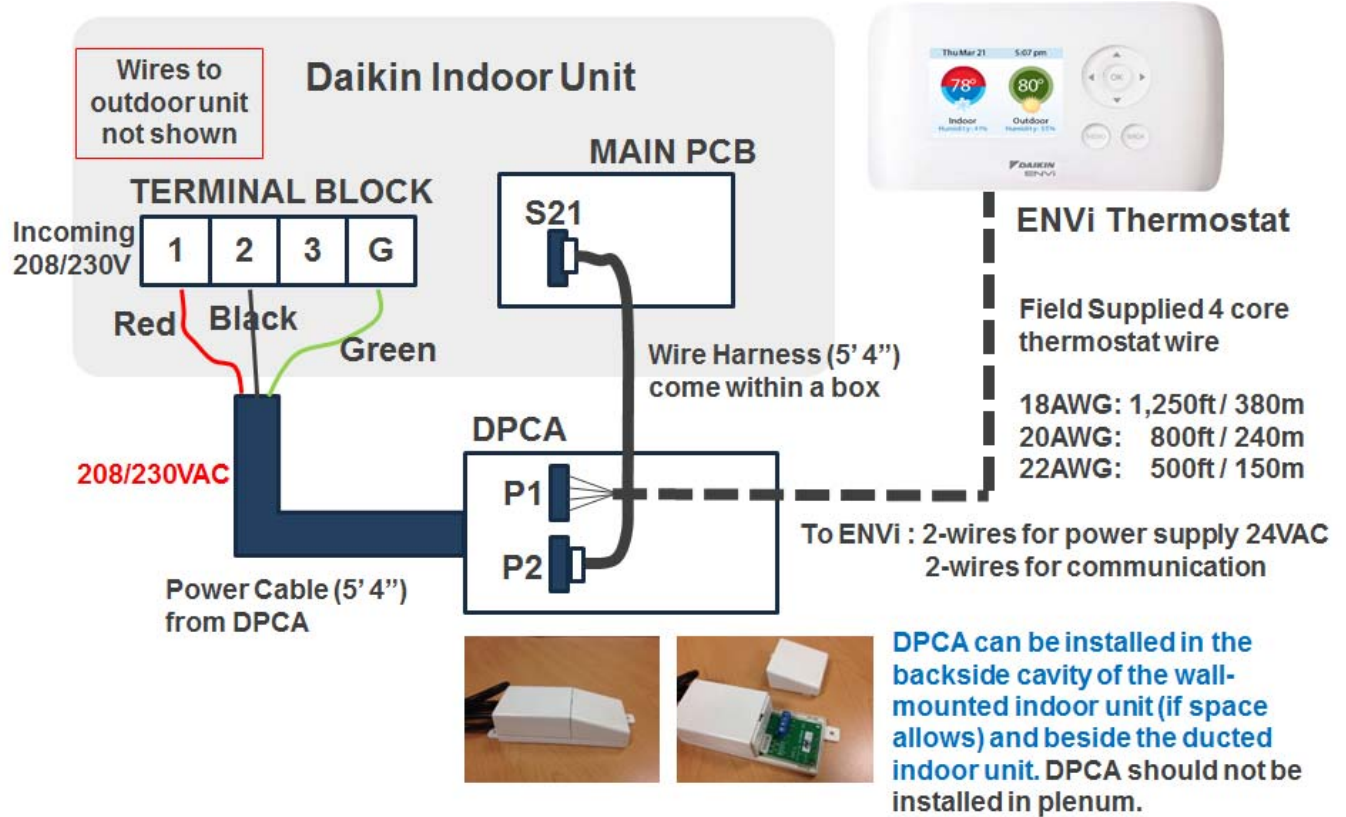
Dimensions (W x H x D)	4.7 x 2.0 x 1.3 inches (120 x 50 x 32.5 mm)
Regulatory	Fire retardant ABS Plastic (CYCOLOY Resin C6200) UL 873 certified

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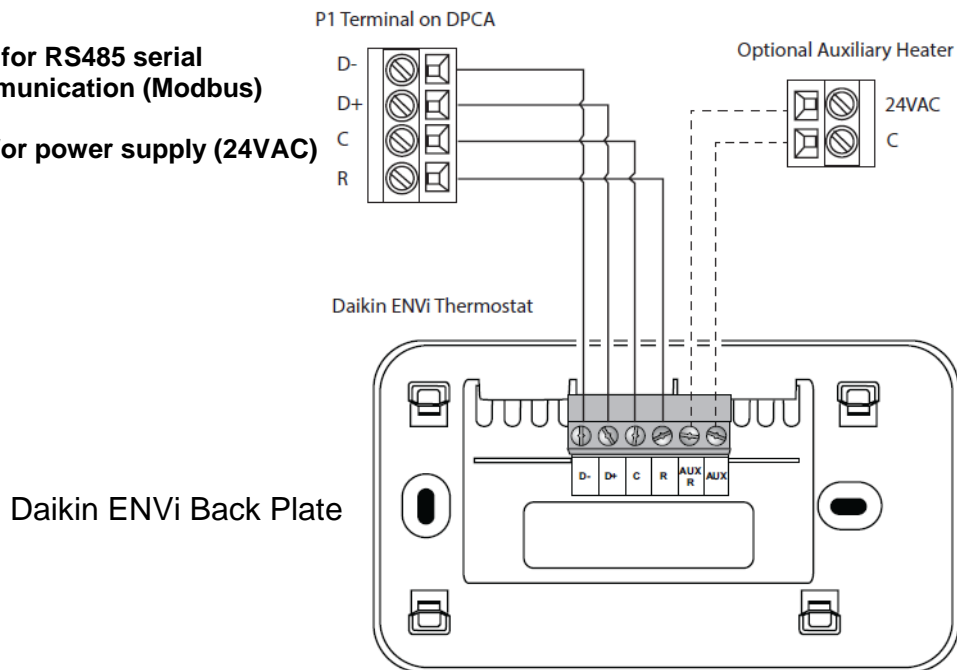
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## Wiring



**D-, D+ : 2 wire for RS485 serial communication (Modbus)**

**C, R : 2 wire for power supply (24VAC)**



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