

*Braeburn*<sup>®</sup>



**Thermostats  
Zoning Systems**

## Thermostats

### Thermostats

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## Zoning Systems



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## BUILDER SERIES Value Models

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Heat Pump Systems (1200NC, 2200NC)
- Multistage Conventional Systems (1200NC, 2200NC)
- 2-Wire Hydronic Zone Systems
- Millivolt Systems

### Features

- Adjustable Temperature Limits for Multi-Family Housing
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Low Battery Indicator
- Front Access Reset Button
- Front Loading Battery Door
- Compressor Short Cycle Protection
- Fahrenheit or Celsius Display Mode
- Adjustable Temperature Differential
- ESD Guard™ Electronic Circuitry
- Trilingual Packaging and Instructions

### Additional Features (2000NC/2200NC)

- 5-2 Day Programmable
- Temporary Program Override
- Programmable Extended Hold Mode
- Filter Check Monitor
- Adaptive Recovery Mode (ARM™)

\*Complete Thermostat Feature Comparison on Page 24.

### Mechanical Thermostats



**500**  
1 Heat / 1 Cool

**505**  
Heat Only



FREE Contractor Branding Available. See page 14.



**Bright  
Blue  
Display**

### Non-Programmable Thermostats

**1000NC - 1 Heat / 1 Cool**  
(Discontinued - Use 1020NC)

**1200NC - 2 Heat / 1 Cool**  
(Discontinued - Use 1220NC)



**Bright  
Blue  
Display**

### Programmable Thermostats

**2000NC - 1 Heat / 1 Cool**  
(Discontinued - Use 2020NC)

**2200NC - 2 Heat / 1 Cool**  
(Discontinued - Use 2220NC)



## BUILDER SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Heat Pump Systems (1220NC, 2220NC)
- Multistage Conventional Systems (1220NC, 2220NC)
- 2-Wire Hydronic Zone Systems
- Millivolt Systems

### Features

- Large Display with Bright Blue Backlight
- Adjustable Temperature Limits for Multi-Family Housing
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Low Battery Indicator
- Front Access Reset Button
- Compressor Short Cycle Protection
- Fahrenheit or Celsius Display Mode
- Adjustable Temperature Differential
- ESD Guard™ Electronic Circuitry
- Trilingual Packaging and Instructions

### Additional Features (2020NC/2220NC)

- 7 Day, 5-2 Day or Non-Programmable
- Temporary Program Override
- Programmable Extended Hold Mode
- Filter Check Monitor
- Adaptive Recovery Mode (ARM™)

\*Complete Thermostat Feature Comparison on Page 24.



### Non-Programmable Thermostats

**1020NC - 1 Heat / 1 Cool**

**1025NC - Heat Only**

**1220NC - 2 Heat / 1 Cool**



### Programmable Thermostats

**2020NC - 1 Heat / 1 Cool**

**2220NC - 2 Heat / 1 Cool**



FREE Color Contractor Branding on Quick Reference Instruction Card. See page 14.

## ECONOMY SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Heat Pump Systems (1220, 2220)
- Multistage Conventional Systems (1220, 2220)
- 2-Wire Hydronic Zone Systems
- Millivolt Systems

### Features

- Large Display with Bright Blue Backlight
- Adjustable Temperature Limits for Multi-Family Housing
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Low Battery Indicator
- Front Access Reset Button
- Compressor Short Cycle Protection
- Fahrenheit or Celsius Display Mode
- Adjustable Temperature Differential
- ESD Guard™ Electronic Circuitry
- Trilingual Packaging and Instructions

### Additional Features (2020/2220)

- 7 Day, 5-2 Day or Non-Programmable
- Temporary Program Override
- Programmable Extended Hold Mode
- Filter Check Monitor
- Adaptive Recovery Mode (ARM™)

\*Complete Thermostat Feature Comparison on Page 24.



### Non-Programmable Thermostats

1020 - 1 Heat / 1 Cool

1220 - 2 Heat / 2 Cool



### Universal Programmable Thermostats

2020 - 1 Heat / 1 Cool

2220 - 2 Heat / 2 Cool



FREE Color Contractor Branding on Quick Reference Instruction Card. See page 14.



**4**  
Sq. In.  
Display

## Non-Programmable Thermostats

**3020 - 2 Heat / 1 Cool**  
*(Discontinued - Use 5020)*

**3220 - 3 Heat / 2 Cool**  
*(Discontinued - Use 5220)*



**5**  
Sq. In.  
Display

## Universal Programmable Thermostats

**5020 - 2 Heat / 1 Cool**

**5025 - 2 Heat / 1 Cool**  
with Humidity Control

**5220 - 3 Heat / 2 Cool**



## PREMIER SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Heat Pump Systems
- Multistage Conventional Systems (3220, 5220)
- 2 or 3-Wire Hydronic Zone Systems
- Millivolt Systems

### Features

- Large Display with Bright Blue Backlight
- Auto or Manual Changeover
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Circulating Fan Mode
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Indoor or Outdoor Remote Sensing
- Multi-Level Keypad Lockout
- Heat Pump Balance Points
- Trilingual Packaging and Instructions

### Additional Features (5020/5025/5220)

- 7 Day, 5-2 Day or Non-Programmable
- Residential or Commercial Modes
- Programmable Extended Hold Mode
- Programmable Fan Mode
- Adaptive Recovery Mode (ARM™)
- Dehumidification Control with Overcooling (5025)
- Humidification Control (5025)

\*Complete Thermostat Feature Comparison on Page 24.

**Contractors! Buy a Premier Series thermostat and get a FREE Braeburn thermostat guard or remote sensor.**

See Accessories - page 13.



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## PREMIER SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Heat Pump Systems (5320)
- Multistage Conventional Systems (5320)
- 2-Wire Hydronic Zone Systems
- Millivolt Systems

### Features

- 7 Day, 5-2 Day or Non-Programmable
- Auto or Manual Changeover
- Residential and Commercial Modes
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Circulating and Programmable Fan Modes
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Indoor or Outdoor Remote Sensing
- Multi-Level Keypad Lockout
- Temporary Program Override
- Programmable Extended Hold Mode
- Adaptive Recovery Mode (ARM™)
- Trilingual Packaging and Instructions

### Additional Features (5320)

- Heat Pump Balance Points
- Auxiliary Fresh Air Terminal
- Auxiliary Heat Fossil Fuel Option

\*Complete Thermostat Feature Comparison on Page 24.

**Contractors! Buy a Premier Series thermostat and get a FREE Braeburn thermostat guard or remote sensor.**

See Accessories - page 13.



FREE Color Contractor Branding on Quick Reference Instruction Card. See page 14.



**6.5**  
Sq. In.  
Display

## Universal Touchscreen Thermostat

**5310 - 1 Heat / 1 Cool**

**5320 - 4 Heat / 2 Cool**

*(5320 is Discontinued - Use 6425)*

### SpeedBar® Multi-Function Button

Simplifies programming and set-up

### Large 6.5 Sq. In. Touchscreen with Oversized Characters

Easier to view and change settings

### SpeedSet® Programming Mode

Quickly program all 7 days

### Quick Reference Instruction Card

User instructions with FREE Color Contractor Branding







**12**  
Sq. In.  
Display

## Universal Touchscreen Thermostat

**6100 - 1 Heat / 1 Cool**

**6300 - 4 Heat / 2 Cool**

*(6300 is Discontinued - Use 6425)*

**6425 - 4 Heat / 2 Cool**  
with Humidity Control 

**SpeedBar® Multi-Function Button**  
Simplifies programming and set-up

**Large 12 Sq. In. Touchscreen**  
with **Oversized Characters**  
Easier to view and change settings

**SpeedSet® Programming Mode**  
Quickly program all 7 days

**Quick Reference Instruction Card**  
User instructions with **FREE Color**  
Contractor Branding

## DELUXE SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Heat Pump Systems
- Multistage Conventional Systems (6300, 6425)
- 2-Wire Hydronic Zone Systems
- Millivolt Systems

### Features

- 7 Day, 5-2 Day or Non-Programmable
- Auto or Manual Changeover
- Residential and Commercial Modes
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Circulating and Programmable Fan Modes
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Indoor or Outdoor Remote Sensing
- Multi-Level Keypad Lockout
- Temporary Program Override
- Programmable Extended Hold Mode
- Adaptive Recovery Mode (ARM™)
- Trilingual Packaging and Instructions

### Additional Features (6300/6425)

- Heat Pump Balance Points
- Auxiliary Fresh Air Terminal
- Auxiliary Heat Fossil Fuel Option
- Dehumidification Control with Overcooling (6425)
- Humidification Control (6425)

\*Complete Thermostat Feature Comparison on Page 24.

**Contractors! Buy a Deluxe Series thermostat and get a FREE Braeburn thermostat guard or remote sensor.**

See Accessories - page 13.



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# BlueLink Smart Wi-Fi Thermostats

**Wi-Fi** Remote Access from Smartphone, Tablet or PC



## 7205 3H / 2C Economical Smart Wi-Fi Solution

- 7 Day, 5-2 Day or Non-Programmable
- Large 3 sq. in. Backlit Display
- Auto or Manual Changeover
- User and Installer Lock Modes
- SmartLimit™ Temperature Limits
- Circulating Fan Mode

**No Common (C) Wire Required for Wi-Fi on most systems\***

\* Wi-Fi works without common (C) wire on most systems. Requires common (C) wire on all Heat Pump, Heat Only or Cool Only Systems



## 7300 2H / 1C<sup>1</sup> 7305 3H / 2C Affordable Smart Wi-Fi Solution

- 7 Day, 5-2 Day or Non-Programmable
- Large 5 sq. in. Backlit Display
- Auto or Manual Changeover
- Residential or Commercial Modes
- Programmable and Circulating Fan Modes
- Auxiliary Fresh Air Terminal
- Wired Remote Sensing (see page 13)
- Wi-Fi Requires Common (C) Wire

*7300 is Discontinued - Use 7305*



## 7320 3H / 2C Flexible Smart Wi-Fi Solution

- 7 Day, 5-2 Day or Non-Programmable
- Large 6.5 sq. in. Touchscreen Display
- Auto or Manual Changeover
- Residential or Commercial Modes
- Programmable and Circulating Fan Modes
- Auxiliary Fresh Air Terminal
- Wireless or Wired Remote Sensing ))) (see page 13)
- Wi-Fi Requires Common (C) Wire

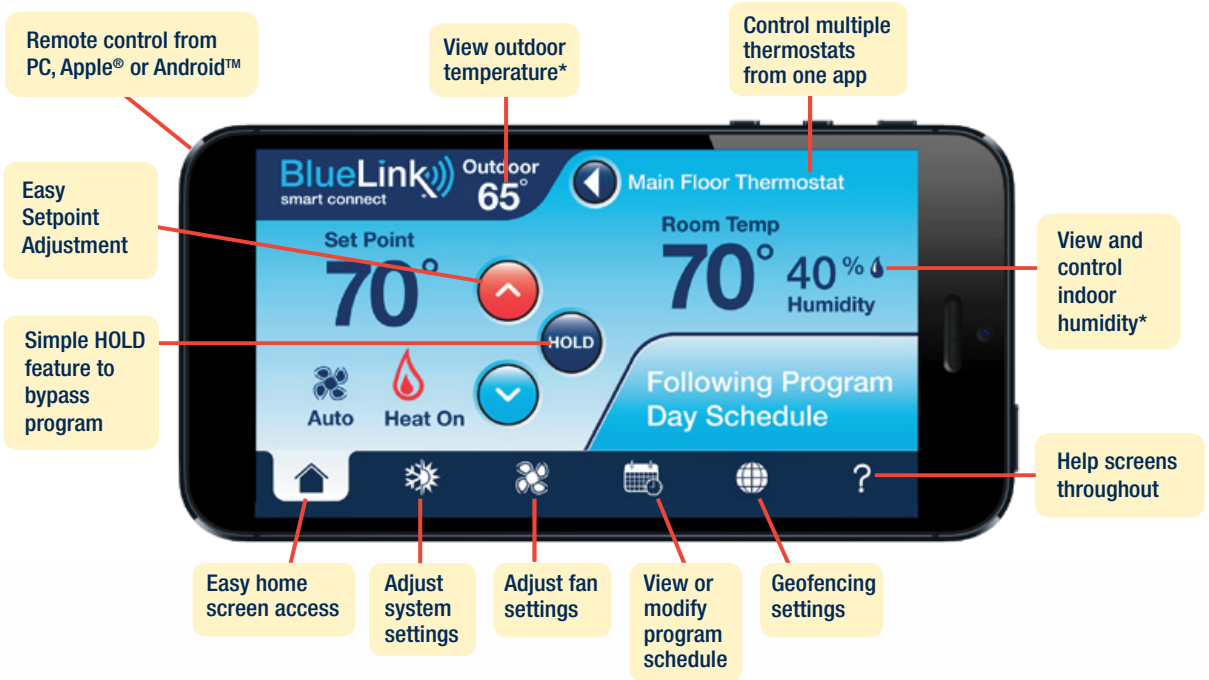
**RVHS**  
COMPLIANT

**5 YEAR**  
LIMITED  
WARRANTY

Phone not included.



FREE Color Contractor  
Branding on Quick Reference  
Instruction Card. See page 14.



## Multi-Color Program Groups with QuickEdit®

Simplifies program scheduling by allowing the user to group days.



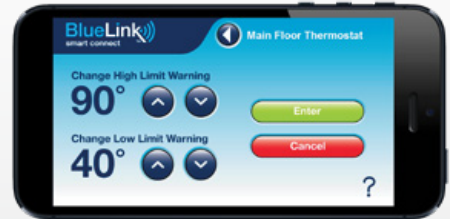
## Geofencing



## BlueLink QuickCopy® Feature



## Service & Temp Alerts



## BlueLink SmartData® Reports

Generate usage reports for your thermostat. Compatible with virtually all smartphones, tablets or PC's!



**Compatible with Amazon Alexa**  
Amazon Alexa is a trademark of Amazon.com, Inc.



\*Feature only available on certain models.



BlueLink Application Help Available:  
[www.bluelinksmartconnect.com](http://www.bluelinksmartconnect.com)  
Requires iOS or Android™ to connect





## 7500 3 Heat / 2 Cool Universal Wireless Thermostat Kit

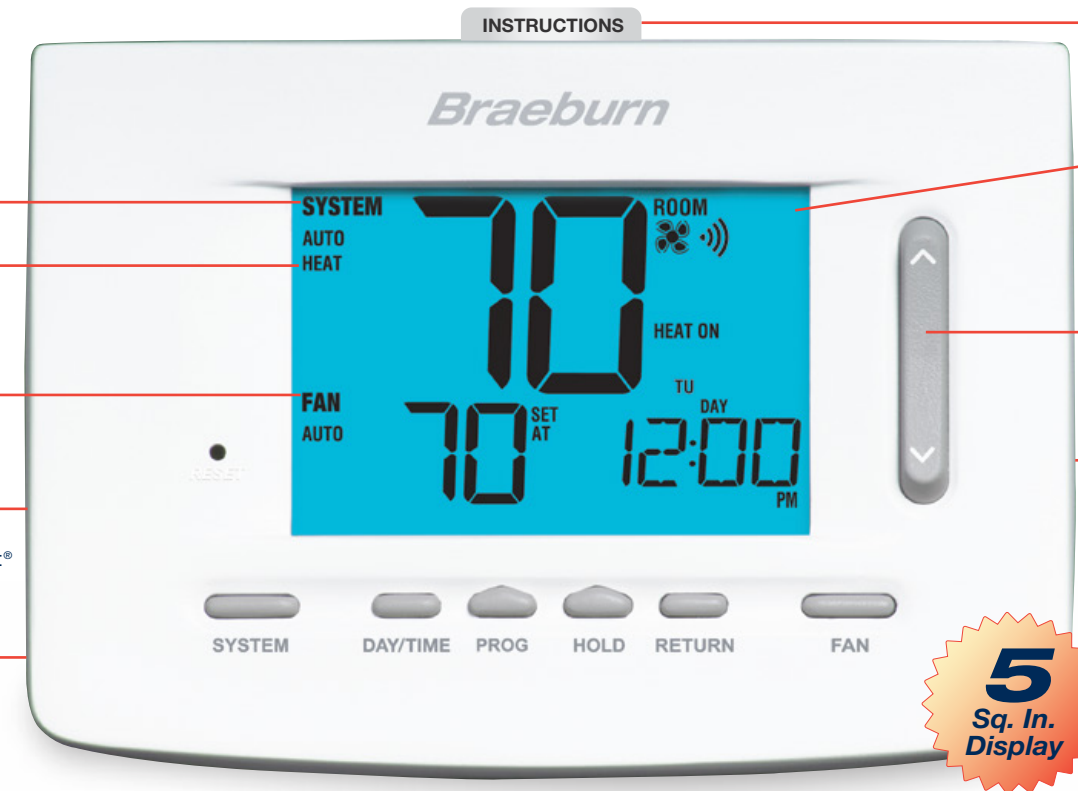
Compatible with Conventional and Heat Pump Systems, Up to 3H and 2C

Auto Changeover Selects Between Heating or Cooling

Auto, On and Programmable Fan Modes

7 Day, 5-2 Day or Non-Programmable Modes with SpeedSet®

Optional Wired Remote Indoor or Outdoor Sensing



Quick Reference Instruction Card with FREE Color Contractor Branding

Large 5 sq. in. Display with Bright Blue Backlight

SpeedBar® Simplifies Programming and Setup

Optional Wireless Remote Indoor, Outdoor and Humidity Sensing

ACTUAL SIZE

## Complete Kit to Add or Relocate a Thermostat

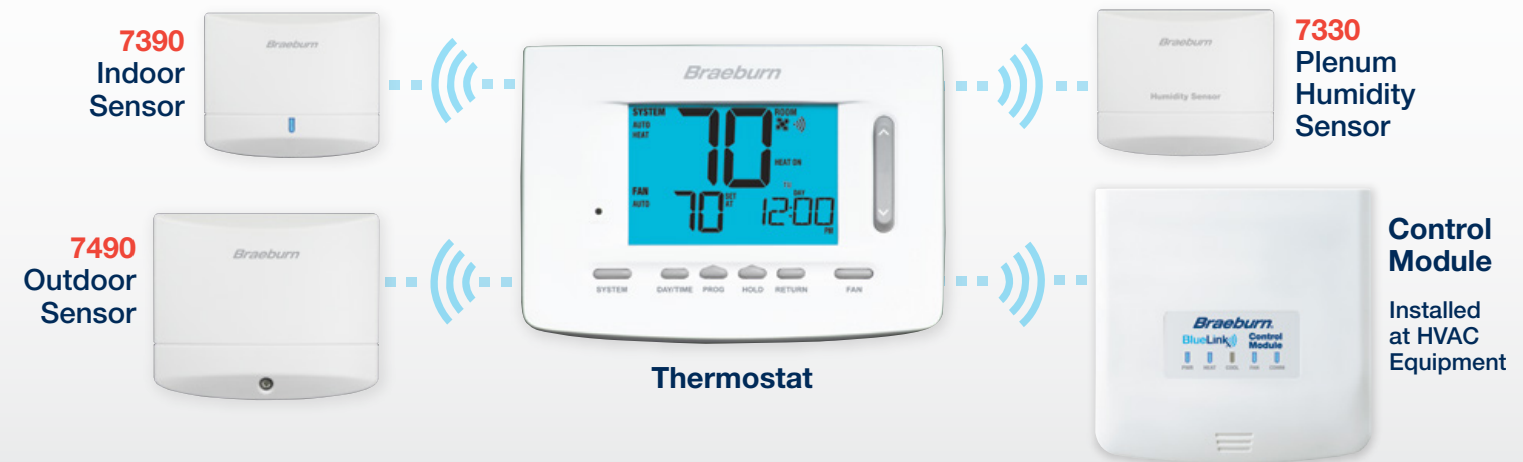
### Thermostat Features

- 7 Day, 5-2 Day or Non-Programmable
- Large 5 Sq. In. Backlit Display
- Auto or Manual Changeover
- Residential or Commercial Modes
- Battery Operated for Total Installation Flexibility
- Compatible with 2 or 3-Wire Hydronic Systems
- Heat Pump Balance Points
- Auxiliary Heat Fossil Fuel Option
- Programmable Fan Mode
- R and C Terminals for Optional 24 Volt Operation
- Adjustable Temperature Limits
- Multi-Level Keypad Lockout

### Wireless Features

- Superior Wireless Range
- Battery Life Exceeds Virtually All Competitive Models
- Includes Return Air Sensor for Default Temperature Control Even if Batteries are Drained
- Connect up to 4 Optional Wireless Indoor Sensors for Remote Temperature Sensing\*
- Optional Wireless Outdoor Sensing for Outdoor Temperature Display or Balance Point Control\*
- Optional Wireless Humidity Plenum Sensor for Whole-House Humidification Control\*
- Affordable Solution for Most Thermostat Applications

## Total Installation Flexibility



FREE Color Contractor Branding on Quick Reference Instruction Card. See page 14.



\* Up to 4 wireless Sensors can be connected - see Installer Guide.

# Thermostat Accessories

**Contractors! Buy a Premier or Deluxe series thermostat and get a FREE thermostat guard or wired remote sensor!<sup>1</sup>**



### 5390 Wired Remote Indoor Sensor

- Contemporary style for any decor
- For use with compatible Braeburn thermostats
- Sense range of 40° to 99°F

### 5490 Wired Remote Outdoor Sensor

- Mounts outdoors up to 200 feet away
- Enables outdoor control functions on compatible Braeburn thermostats
- Sense range of -40° to 120°F

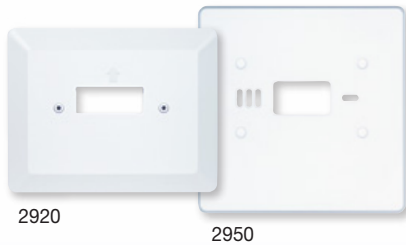


### 5970 Thermostat Guard

- Universal—fits virtually all thermostats
- Replaces over 100 competitive models
- Tamper resistant design
- Two keys Included
- Fits thermostats up to 7.3"W x 5.25"H x 1.8"D

### 165 Construction Thermostat

- Install in place of standard 24 Volt AC thermostat during construction
- Maintains fixed temperature set point of 65° heat
- Sturdy enclosure protects switch from drywall dust, paint and mudding



### 2920 Vertical Wall Plate

- Adapts vertical J box to horizontal mount
- Sturdy two piece construction
- 6.5"W x 5 1/8"H

### 2950 Universal Wall Plate

- Covers mounting marks from old thermostats
- Use with all Braeburn digital thermostats
- 6.5"W x 6.5"H

## BlueLink<sup>®</sup> Wi-Fi and Wireless Accessories



### 7390 Wireless Remote Indoor Sensor<sup>2</sup>

- Sense temperature at remote location or average with thermostat
- Up to 4 wireless remote indoor sensors can be connected
- Front LED light shows sensor status
- Requires 2 "AA" Alkaline batteries (included)



### 7490 Wireless Remote Outdoor Sensor<sup>2</sup>

- Display outdoor temperature
- Use for heat pump balance point control
- 1 wireless remote outdoor sensor can be connected
- Requires 2 "AA" Lithium batteries (included)



### 7330 Wireless Remote Humidity Sensor<sup>2</sup>

- Controls humidifier or dehumidifier
- Mounts directly to return air plenum
- 1 wireless remote humidity sensor can be connected
- 24 VAC Powered



### 7340 Share-a-Wire<sup>®</sup> Module

- For use with BlueLink<sup>®</sup> Wi-Fi Thermostats
- Provides a common "C wire" connection on a 4-wire system
- Install near system control board

<sup>1</sup>Visit [www.braeburnonline.com](http://www.braeburnonline.com) for details. <sup>2</sup>For use with models 7320 and 7500 - a maximum of 4 wireless remote sensors can be connected.

# FREE Contractor Branding - in Color!

## Send us your color logo and we'll promote your brand for FREE

With Braeburn, there are no minimum purchase requirements for the contractor to advertise 24 hours a day in customers' homes. Your logo and contact information will be readily available when it is time for maintenance or equipment repair.

Non-branded Quick Reference cards are already included with our thermostats. For custom branded cards, simply send us your logo and we will ship you custom printed cards absolutely FREE.

## Easy Ordering

### FREE Quick Reference Cards with Color Logo

- Visit [www.braeburnonline.com/contractorbranding](http://www.braeburnonline.com/contractorbranding)
- Upload your high resolution logo in TIF, JPG or EPS format
- Contractors will receive 50 full color Contractor Branded Quick Reference Cards for FREE, with no set-up fees or branding charges.
- Please allow 2-3 weeks for delivery

### FREE Battery Doors or Labels

- Visit [www.braeburnonline.com/contractorbranding](http://www.braeburnonline.com/contractorbranding)
- Provide 3 lines of text (no logos) - 30 characters per line
- Contractors will receive 50 doors or labels for FREE, with no set-up fees or branding charges.
- Please allow 2-3 weeks for delivery



## ECONOMY SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Conventional or Heat Pump Systems
- Single Stage Conventional Thermostats - For Lower Cost
- Power Open, Power Close or Spring Return Dampers

### Features

- Sleek, Low Profile Design
- Quick Connect Terminals Speed Installation
- On-Board Emergency Heat Switch
- Ability to Connect External Emergency Heat Switch
- Selectable Zone Priority
- Fan Purge Into Last Calling Zone
- Easy-Set Dip Switches
- Heavy Duty 10-Amp Relays
- Short Cycle Protection Jumper
- Zone Calling Status LED's

### Additional Features (140303)

- On-Board LED Display
- Supply Air Sensor Included
- Adjustable Purge Control
- Thermostat Status LED's
- Equipment Status LED's
- 2-Stage Fan Control
- Advanced Staging

\*Complete Zoning Feature Comparison on Page 25.



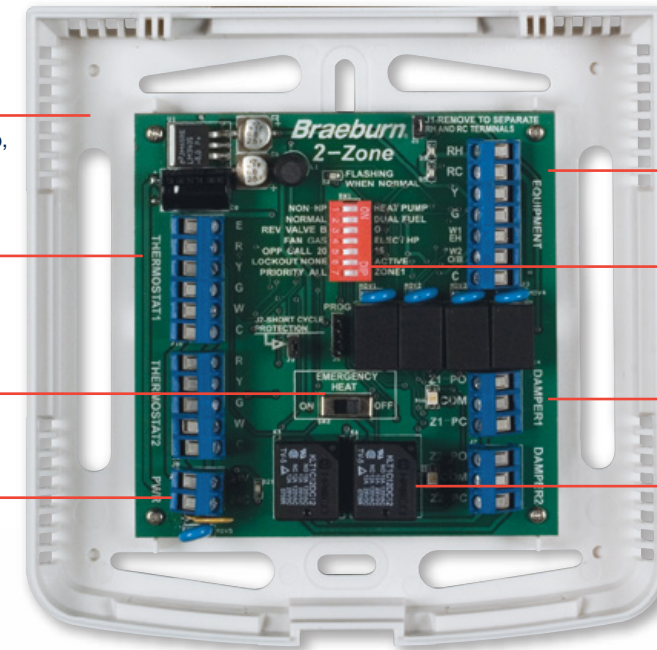
**2-Zone Control Panel**  
**140202**  
**2 Heat / 1 Cool**



**3-Zone Control Panel**  
**140303**  
**3 Heat / 2 Cool**



## 140202



### Flexible System Options

Controls conventional, heat pump, electric, and dual fuel systems

### Thermostat Terminals

Use with conventional 4 or 5 wire thermostats

### Emergency Heat Switch

With remote terminals

### Power Terminals

Accepts standard 24 VAC power from transformer. Built in self-resetting fuse helps protect panel

### Equipment Terminals

Simple equipment connections

### Easy-Set Dip Switches

Select system preferences

### Damper Terminals

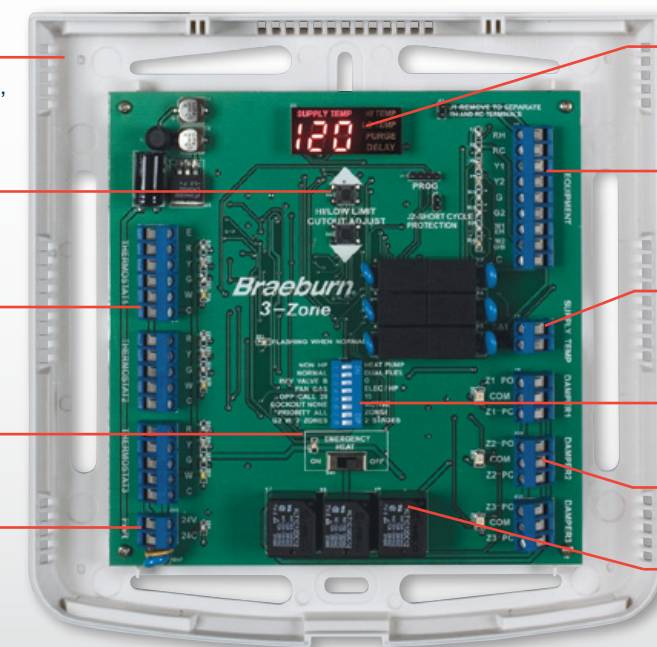
With LED indicators

### Heavy Duty Relays

10-Amp capacity for extra durability

Compact 6" x 6" Housing

## 140303



### Flexible System Options

Controls conventional, heat pump, electric, and dual fuel systems

### Adjustable Purge Control

Maximizes economy and occupant comfort

### Thermostat Terminals

Use with conventional 4 or 5 wire thermostats

### Emergency Heat Switch

With remote terminals

### Power Terminals

Accepts standard 24 VAC power from transformer. Built in self-resetting fuse helps protect panel

### LED Display

Easy to read LED display shows system temperature and purge status

### Equipment Terminals

Simple equipment connections with LED status indicators

### Supply Air Sensor

Monitors plenum temperature and provides adaptive staging

### Easy-Set Dip Switches

Select system preferences

### Damper Terminals

With LED indicators

### Heavy Duty Relays

10-Amp capacity for extra durability

Compact 8" x 8" Housing



**2-Zone Control Panel**  
**140221 - 2 Heat / 1 Cool**



**3-Zone Control Panel**  
**140311 / 140332**  
**3 Heat / 2 Cool**

## PREMIER SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Conventional or Heat Pump Systems
- Single Stage or Multistage Thermostats
- Power Open, Power Close or Spring Return Dampers

### Features

- Large Display with Bright Blue Backlight
- Push-In Terminals For Easy Wiring
- On-Board Emergency Heat Switch<sup>1</sup>
- Ability to Select Emergency Heat From Thermostat<sup>1</sup>
- Selectable Zone Priority
- Adjustable Purge Control
- Built-In Test Mode
- Easy Setup and Configuration
- Heavy Duty 10-Amp Relays
- Flexible Staging Controlled by Panel or Thermostats<sup>1</sup>
- Dual Fuel Control with Optional Outdoor Sensor<sup>1</sup>
- System Reset Button
- Thermostat Status LED's
- Equipment Status LED's
- Zone Calling Status LED's

### Additional Features (140311/140332)

- Optional Supply Air Sensor For Limit Protection
- 2-Stage Fan Control

\*Complete Zoning Feature Comparison on Page 25.

<sup>1</sup>Not available on 140311

### Flexible System Options

Controls conventional, heat pump, electric, and dual fuel systems

### Flexible Thermostat Options

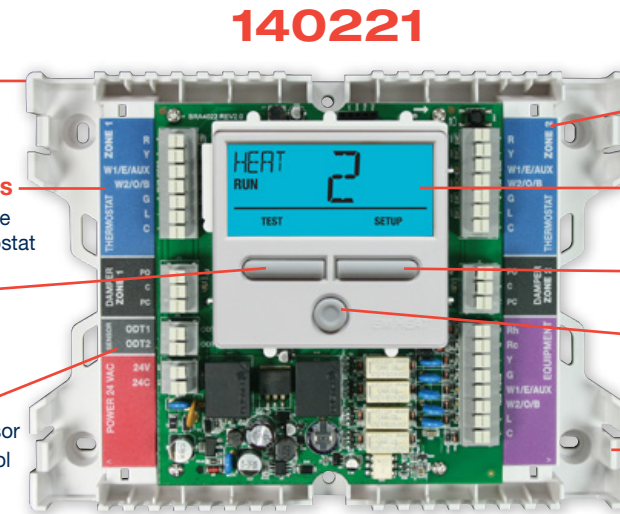
Works with virtually any low voltage heat pump or conventional thermostat

### Built In Test Mode

Test all dampers and equipment from panel

### Outdoor Sensor Terminals

Connect to Braeburn outdoor sensor for heat pump balance point control



**Compact 8" x 6" Housing**

### Thermostat Terminals

Push-in wiring terminals with LED status indicators

### Large Display

3 sq. in. backlit display

### Easy 2 Button Setup

Set up and test from main display

### Emergency Heat Button

Panel mounted button and selectable thermostat emergency heat control

### Professional Appearance

Wire along side and underneath with multiple wire tie points

## 140311 / 140332

### Flexible System Options

Controls conventional, heat pump, electric, and dual fuel systems

### Built In Test Mode

Test all dampers and equipment from panel

### Damper Terminals

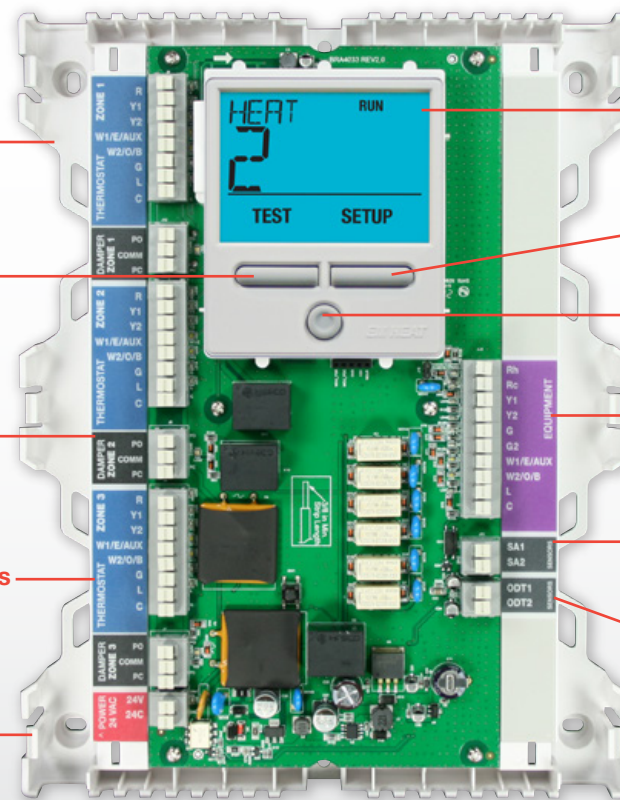
Push-in wiring terminals with LED status indicators

### Flexible Thermostat Options

Works with virtually any low voltage heat pump or conventional thermostat

### Professional Appearance

Wire along side and underneath with multiple wire tie points



**Compact 8" x 10" Housing**

### Large Display

5.5 sq. in. backlit display

### Easy 2 Button Setup

Set up and test from main display

### Emergency Heat Button<sup>1</sup>

Panel mounted button and selectable thermostat emergency heat control

### Equipment Terminals

Simple push-in wiring terminals with LED status indicators

### Supply Air Sensor (optional)

Stainless steel sensor controls high and low temperature cutout

### Outdoor Sensor Terminals<sup>1</sup>

Connect to Braeburn outdoor sensor for heat pump balance point control

<sup>1</sup>Not available on 140311







## 4-Zone Expandable Control Panel

**140404 - 4 Heat / 2 Cool**

Use with 140404 Zone Panel



## 2-Zone Expander Panel

**140424 - 4 Heat / 2 Cool**

## PREMIER SERIES

### Compatibility

- Single Stage Conventional or Heat Pump Systems
- Multistage Conventional or Heat Pump Systems
- Single Stage or Multistage Thermostats
- Power Open, Power Close or Spring Return Dampers

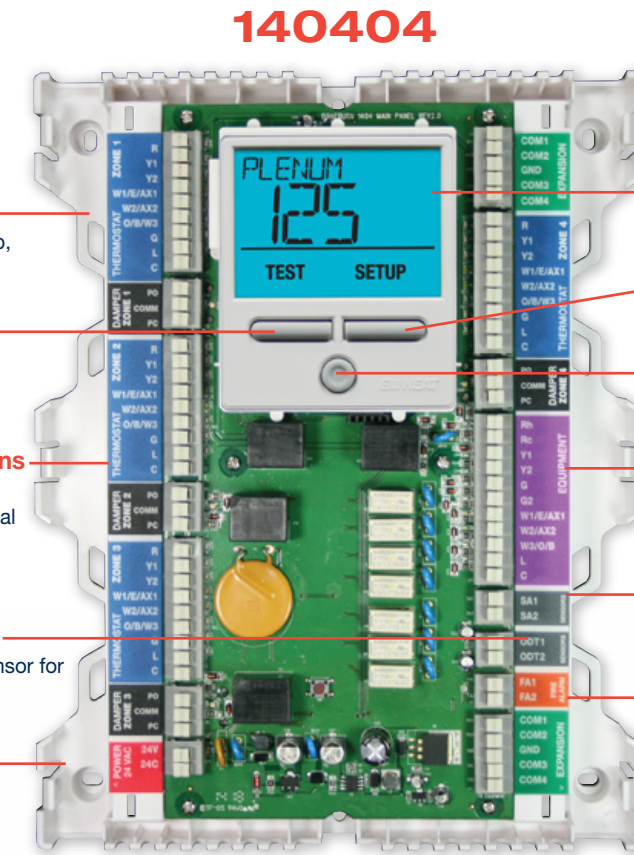
### Features

- Expandable up to 32 Zones
- Large Display with Bright Blue Backlight
- Includes Supply Air Sensor for Staging and Limit Protection
- Push-In Terminals For Easy Wiring
- On-Board Emergency Heat Switch
- Ability to Select Emergency Heat From Thermostat
- Selectable Zone Priority
- Adjustable Purge Control
- Built-In Test Mode
- Easy Setup and Configuration
- Heavy Duty 10-Amp Relays
- Flexible Staging Controlled by Panel or Thermostats
- Dual Fuel Control with Optional Outdoor Sensor
- System Reset Button
- Fire Alarm Terminals
- 2-Stage Fan Control
- Thermostat Status LED's
- Equipment Status LED's
- Zone Calling Status LED's

### Additional Features (140424)

- Add Zones in Affordable 2-Zone Increments
- Installs Up to 500 Ft. from Main Panel
- Stacks Neatly with Main Panel

\*Complete Zoning Feature Comparison on Page 25.



**Compact 8" x 10" Housing**

### Flexible System Options

Controls conventional, heat pump, electric, and dual fuel systems

### Built In Test Mode

Test all dampers and equipment from main panel

### Flexible Thermostat Options

Works with virtually any low voltage heat pump or conventional thermostat

### Outdoor Sensor Terminals

Connect to Braeburn outdoor sensor for heat pump balance point control

### Professional Appearance

Wire along side and underneath with multiple wire tie points

### Large Display

5.5 sq. in. backlit display

### Easy 2 Button Setup

Set up and test from main display

### Emergency Heat Button

Panel mounted button and selectable thermostat emergency heat control

### Equipment Terminals

Simple push-in wiring terminals with LED status indicators

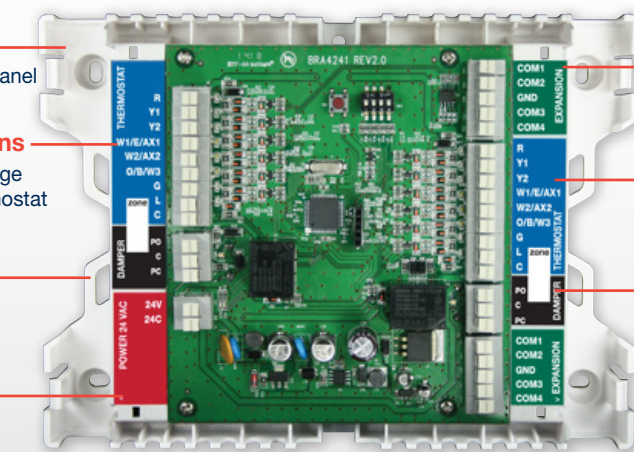
### Supply Air Sensor Included

Stainless steel sensor helps control staging and high / low temperature cutout

### Fire Alarm Terminals

Selectable for normally open or closed

## 140424



**Compact 8" x 6" Housing**

### Flexible System Options

Install up to 500 feet from main panel

### Flexible Thermostat Options

Works with virtually any low voltage heat pump or conventional thermostat

### Professional Appearance

Wire along side and underneath with multiple wire tie points

### Power Terminals

Accepts standard 24 VAC power from transformer. Built in self-resetting fuse helps protect panel

### Easy to Wire

Use standard 5-wire thermostat wire from panel to panel

### Thermostat Terminals

Push-in wiring terminals with LED status indicators

### Damper Terminals

Push-in wiring terminals with LED status indicators

### Easy Setup

Set zone number on main panel



## Round Zone Dampers

### Power Open / Power Close

24 VAC 4 VA 3-wire universal operation



Power Open / Power Close

Power Open Power Close	Diameter (Inches)	Length (Inches)	Power Open Power Close	Diameter (Inches)	Length (Inches)
109005	5	11.25	109012	12	11.75
109006	6	11.25	109014	14	13.75
109007	7	11.25	109016	16	15.75
109008	8	11.25	109018	18	17.75
109009	9	11.25	109020	20	19.75
109010	10	11.25	—	—	—



Spring Return

### Spring Return

- 24 VAC 8 VA 2-wire universal operation
- Available in Power Close / Spring Return and Power Open / Spring Return

### Static Bypass

- Vertical or horizontal mounting
- Reversible control for flexible mounting

Power Close Spring Return	Power Open Spring Return	Static Bypass	Diameter (Inches)	Length (Inches)
119004	129004	-	4	9.75
119005	129005	-	5	9.75
119006	129006	-	6	9.75
119007	129007	119107	7	9.75
119008	129008	119108	8	9.75
119009	129009	119109	9	9.75
119010	129010	119110	10	9.75
119012	129012	119112	12	11.75
119014	129014	119114	14	13.75
119016	129016	119116	16	15.75
119018	129018	119118	18	17.75
119020	129020	119120	20	19.75



Round Bypass

### Retrofit (PO/PC)

24 VAC 4 VA 3-wire universal operation



Retrofit

Round Retrofit (PO / PC)	Diameter (Inches)	Round Retrofit (PO / PC)	Diameter (Inches)
128004	4	128007	7
128005	5	128008	8
128006	6	128010	10



## Rectangular Zone Dampers

### Power Open / Power Close

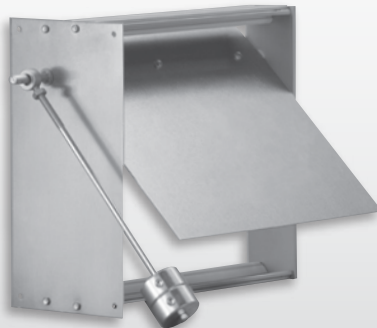
- For use as zone or bypass damper
- 24 VAC 4 VA universal operation



Power Open /  
Power Close



Power Close /  
Spring Return



Rectangular  
Bypass

#### Height in Inches\*

	8	10	12	14	16
8	100808	—	—	—	—
10	101008	101010	101012	101014	—
12	101208	101210	101212	101214	—
14	101408	101410	101412	101414	—
16	101608	101610	101612	101614	101616
18	101808	101810	101812	101814	101816
20	102008	102010	102012	102014	102016
22	102208	102210	102212	102214	102216
24	102408	102410	102412	102414	102416
26	102608	102610	102612	102614	102616
28	—	—	—	102814	102816
30	—	—	—	103014	103016

Width in Inches

All motors are mounted on the Height Dimension

\* Larger heights available. Contact factory for availability.

### Power Close / Spring Return

- 2 wire installation
- 24 VAC 8 VA universal operation

#### Height in Inches\*

	8	10	12	14	16
8	110808	—	—	—	—
10	111008	111010	111012	111014	—
12	111208	111210	111212	111214	—
14	111408	111410	111412	111414	—
16	111608	111610	111612	111614	111616
18	111808	111810	111812	111814	111816
20	112008	112010	112012	112014	112016
22	112208	112210	112212	112214	112216
24	112408	112410	112412	112414	112416
26	112608	112610	112612	112614	112616
28	—	—	—	112814	112816
30	—	—	—	113014	113016

Width in Inches

All motors are mounted on the Height Dimension

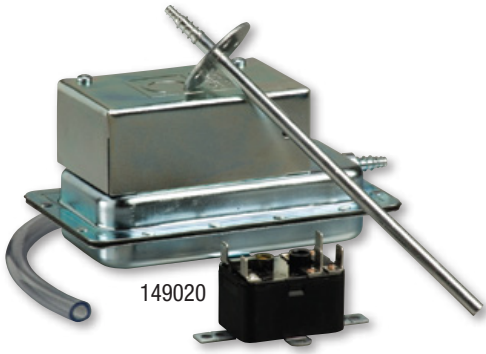
\* Larger heights available. Contact factory for availability.

### Rectangular Static Bypass

#### Height in Inches

Width in Inches	8	10	12
12	131208	131210	131212
20	132008	132010	





## Zoning Systems Accessories

Braeburn Zoning Accessories are designed to give years of performance in demanding zoning applications. Complete the HVAC installation with the full line of Braeburn thermostats and guards.

### 149020 Static Pressure Control

The Braeburn static pressure control is designed to mount on vertical surfaces. Powered from the zone panel transformer, this unit automatically controls the plenum bypass damper by monitoring system pressure as zones close and open.

#### Features

- Used to control plenum bypass air volume
- Reduces bypass problems in mismatched zones
- Includes relay and measuring pitot tube

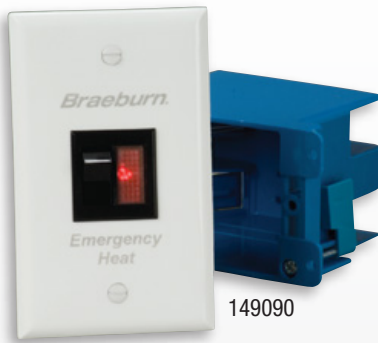


### 149040 Zoning System Transformer

Braeburn zoning transformers have 120 VAC input and 24 VAC output. UL listed and convenient mounting features for easy installation.

#### Features

- 40 VA, 120 VAC
- Includes mounting plate

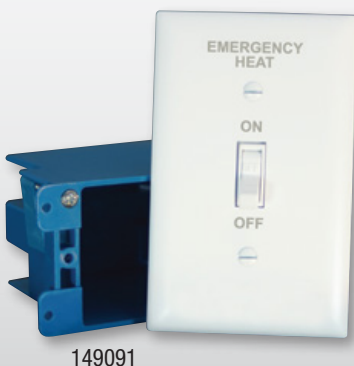


### Emergency Heat Switch Kit

These kits are the finishing touch to any zoning system installation. More convenient than the remote switch on the zone panel, both kits include a laser engraved wall plate and handy box.

#### Features

- 149090 features a commercial quality lighted rocker switch
- 149091 features a standard switch



### Replacement Parts

149125 Replacement Motor for PO/PC Dampers  
(Manufactured after 2012)

149126 Replacement Motor for PO/PC Dampers  
(Manufactured after June 2019)

149145 Replacement Motor for Spring Return (SR) Dampers  
(Manufactured after 2012)

149156 Replacement Supply Air Sensor

149160 Barometric Bypass Damper Counterweight



	MODEL		STAGING		PROGRAM			APPLICATION							BRAEBURN THERMOSTAT FUNCTIONS AND FEATURES																COMPETITIVE CROSS REFERENCE							
	Braeburn Model No.	Conventional	Heat Pump	Non-Prog.	5-2 Day	7 Day	Electric	Gas or Oil	Heat Pump	Millivolt	Hydronic Systems 2 or 3 Wire	Battery / Hardware	Wi-Fi	Wireless	Display Size (sq. in.)	Blue Backlight	Adjustable Differential(s)	Quick Reference Instruction Card	Permanent Memory	Reset Button (s)	Adaptive Recovery Mode	Circulating Fan	Service Monitor(s)	Auto Changeover	Keypad Lockout	Temperature Limits	Indoor / Outdoor Remote Sensing	Wireless Remote Sensing	Dual Fuel Capable	Programmable Fan	Balance Points	Economizer	Humidity Control	Residential and Commercial Modes	Warranty (Years)	Honeywell®	Emerson®	
MECHANICAL	500	1/1	1/1	•	-	-	•	•	•	•	2	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	T8034N, T834N T87N	1E56N
	505	1/0	-	•	-	-	•	•	-	•	2	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	T822K, T827K	1E30, 1E50, 1C20
NON-PROGRAMMABLE	1000NC	1/1	1/1	•	-	-	•	•	•	•	2	•	-	-	.8	•	•	-	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	2	TH1110	1F78-144, 1E78-144
	1020	1/1	1/1	•	-	-	•	•	•	•	2	•	-	-	3	•	•	•	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	5	TH3110, TH5110	1F83C-11NP, 1F86-0244
	1020NC	1/1	1/1	•	-	-	•	•	•	•	2	•	-	-	2	•	•	•	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	5	TH1110, TH3110	1F78-144, 1E78-144
	1025NC	1/0	1/0	•	-	-	•	•	-	•	2/3	•	-	-	2	•	•	•	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	5	TH1100	1E78-140
	1200NC	2/1	2/1	•	-	-	•	•	•	•	2	•	-	-	.8	•	•	-	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	2	TH1210	1F79-111
	1220	2/2	2/2	•	-	-	•	•	•	•	2	•	-	-	3	•	•	•	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	5	TH3210, TH5220	1F83H-21NP, 1F89-0211
	1220NC	2/1	2/1	•	-	-	•	•	•	•	2	•	-	-	2	•	•	•	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	5	TH1210, TH3210	1F79-111
	3020	1/1	2/1	•	-	-	•	•	•	•	2/3	•	-	-	4	•	•	•	•	•	-	•	•	•	•	•	•	-	•	-	•	-	-	-	-	5	TH5110	1F86-0471, 1F85U-22NP
	3220	2/2	3/2	•	-	-	•	•	•	•	2/3	•	-	-	4	•	•	•	•	•	-	•	•	•	•	•	•	-	•	-	•	-	-	-	-	5	TH5220, TH5320	1F85U-42NP, 1F83-0471
PROGRAMMABLE	2000NC	1/1	1/1	-	•	-	•	•	•	•	2	•	-	-	1.2	•	•	-	•	•	•	-	•	-	-	•	-	-	-	-	-	-	-	-	-	2	TH2110	1F78-151, 1E78-151
	2020	1/1	1/1	•	•	•	•	•	•	•	2	•	-	-	3	•	•	•	•	•	-	•	-	-	•	-	-	-	-	-	-	-	-	-	-	5	TH4110	1F83C-11PR, 1F80-0261 1F80-0224
	2020NC	1/1	1/1	•	•	•	•	•	•	•	2	•	-	-	2	•	•	•	•	•	-	•	-	-	•	-	-	-	-	-	-	-	-	-	-	5	TH2110, TH4110	1F78-151, 1E78-151
	2200NC	2/1	2/1	-	•	-	•	•	•	•	2	•	-	-	1.2	•	•	-	•	•	•	-	•	-	-	•	-	-	-	-	-	-	-	-	-	2	TH2210	1F72-151
	2220	2/2	2/2	•	•	•	•	•	•	•	2	•	-	-	3	•	•	•	•	•	-	•	-	-	•	-	-	-	-	-	-	-	-	-	-	5	TH4210	1F83H-21PR, 1F82-0261
	2220NC	2/1	2/1	•	•	•	•	•	•	•	2	•	-	-	2	•	•	•	•	•	-	•	-	-	•	-	-	-	-	-	-	-	-	-	-	5	TH2210, TH4210	1F82-261, 1F72-151
	5020	1/1	2/1	•	•	•	•	•	•	•	2/3	•	-	-	5	•	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	-	-	•	5	TH6110, TH6210	1F85U-22PR, 1F80-0471
	5025	1/1	2/1	•	•	•	•	•	•	•	2/3	•	-	-	5	•	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	-	•	•	5	TH8321	1F95-1291
5220	2/2	3/2	•	•	•	•	•	•	•	2/3	•	-	-	5	•	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	-	-	•	5	TH6220, TH6320	1F85U-42PR, 1F85-0471 1F85-0477, 1F85-0422	
TOUCHSCREEN	5310	1/1	1/1	•	•	•	•	•	•	•	2	•	-	-	6.5	•	•	•	•	•	•	•	•	•	•	•	-	-	•	-	-	-	-	-	5	TB7100, TH8110	1F97-1277, 1F97-0671	
	5320	3/2	4/2	•	•	•	•	•	•	•	2	•	-	-	6.5	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	•	-	-	•	5	TB7220, TH7220 TB8220, TH8320	1F95-0680, 1F95-0671 1F95-1277, 1F95-1280
	6100	1/1	1/1	•	•	•	•	•	•	•	2	•	-	-	12	•	•	•	•	•	•	•	•	•	•	•	-	-	•	-	-	-	-	-	5	TH8110	1F97-1277	
	6300	3/2	4/2	•	•	•	•	•	•	•	2	•	-	-	12	•	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	•	-	-	5	TB8220, TH8320	1F95-1277, 1F95-1280
	6425	3/2	4/2	•	•	•	•	•	•	•	2	•	-	-	12	•	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	•	-	-	5	TH8321	1F95-1291
BLUELINK®	7205	2/2	3/2	•	•	•	•	•	•	•	2	•	•	-	3	•	•	•	•	•	•	•	•	•	•	•	-	-	•	-	-	-	-	-	5	TH6320WF, TH6220WF	1F86U-42WF	
	7300	1/1	2/1	•	•	•	•	•	•	•	2/3	• <sub>1</sub>	•	-	5	•	•	•	•	•	•	•	•	•	•	•	-	-	•	-	-	-	-	-	5	TH6320WF*, TH6220WF*	1F86U-42WF*	
	7305	2/2	3/2	•	•	•	•	•	•	•	2/3	• <sub>1</sub>	•	-	5	•	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	-	-	-	5	TH6320WF, TH6220WF	1F86U-42WF	
	7320	2/2	3/2	•	•	•	•	•	•	•	2	• <sub>1</sub>	•	-	6.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• <sub>3</sub>	•	5	TH6320WF, TH9320WF TH8320WF, TH8732WF	1F86U-42WF
	7500	2/2	3/2	•	•	•	•	•	•	•	2/3	• <sub>2</sub>	-	•	5	•	•	•	•	•	•	-	•	•	•	•	•	•	•	•	•	-	• <sub>3</sub>	•	5	YTH5320R, YTH6320R	1F98EZ-1621	

<sup>1</sup>24 VAC required for Wi-Fi    <sup>2</sup>Control module requires 24 VAC    <sup>3</sup>Requires 7330 remote sensor    Verify specific application requirements. All trademarks are the property of their respective owners. Product specifications may change without notice.    \* If single stage is required.    ©2021 Braeburn Systems LLC • All Rights Reserved.

MODEL	ZONES	STAGING		THERMOSTATS				DAMPERS			POWER	BRAEBURN ZONING FUNCTIONS AND FEATURES																	COMPETITIVE CROSS REFERENCE							
		Conventional	Heat Pump	Single Stage Conventional	Multi-Stage Conventional	Single Stage Heat Pump	Multi-Stage Heat Pump	Power Open / Power Close	Power Open / Spring Return	Power Close / Spring Return		LCD Display Size (Sq. In.)	Expandable up to 32 Zones*	Heavy-Duty 10 Amp Relays	Supply Air Sensor Capable	Supply Air Sensor Included	Emergency Heat from Thermostat	On-Board Emergency Heat Switch	Selectable Zone Priority	Adjustable Fan Purge	Thermostat Status LED's	Equipment Status LED's	Zone Calling Status LED's	2-Stage Fan Control (G2)	Push-In Wiring Terminals	Staging by Panel	Staging by Thermostats	Outdoor Sensor Capable	Fire Alarm Terminals	Built-In Test Mode	System Reset Button	Warranty (Years)	Honeywell®	EWC®	ZoneFirst®	AprilAire®
140202	2-Zone	2/1	2/1	•	-	-	-	•	•	•	24 VAC	-	-	•	-	-	•	•	-	-	•	-	-	•	-	-	-	-	-	-	-	5	-	-	MMP2	6202
140303	3-Zone	2/2	2/2	•	-	-	-	•	•	•	24 VAC	-	-	•	•	•	-	•	•	•	•	•	-	•	-	-	-	-	-	-	5	-	NCM300	MMP3, MMZ3	6203, 6303	
140221	2-Zone	2/1	2/1	•	•	•	•	•	•	•	24 VAC	3	-	•	-	-	•	•	•	•	•	-	•	•	•	•	-	•	•	5	HZ211	-	-	6302		
140311	3-Zone	1/1	1/1	•	-	•	-	•	•	•	24 VAC	5.5	-	•	•	-	-	•	•	•	•	-	•	-	-	-	-	•	•	5	HZ311	-	-	-		
140332	3-Zone	2/2	3/2	•	•	•	•	•	•	•	24 VAC	5.5	-	•	•	-	•	•	•	•	•	•	•	•	•	•	-	•	•	5	HZ311, HZ332	BMPlus3000	H32, H32P	6303, 6403		
140404	4-Zone Expandable	3/2	4/2	•	•	•	•	•	•	•	24 VAC	5.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5	HZ432	UZO, BMPlus	MZP4, MZS4, MDP3	6404		

\*Requires 140424 2-Zone Expansion Panel.

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# Braeburn® Products



Welcome! Braeburn is the value alternative for a wide variety of indoor air quality control products. Founded in 2001, our corporate headquarters is located in Montgomery, Illinois – just west of Chicago. We are committed to providing you with the precision products you would expect from a world class company. Our manufacturing facility is ISO 9001 and QS9000 rated for the highest assurance of quality. Braeburn provides solutions to lower energy costs and increase comfort in any home or business environment.



*We support the*  
**Energy Aware  
Program**

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**Toll-Free 866.268.5599 (U.S.) +1.630.844.1968 (Outside the U.S.)**  
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