

*Braeburn*<sup>®</sup>

The brighter choice<sup>®</sup>



**Zoning Systems**

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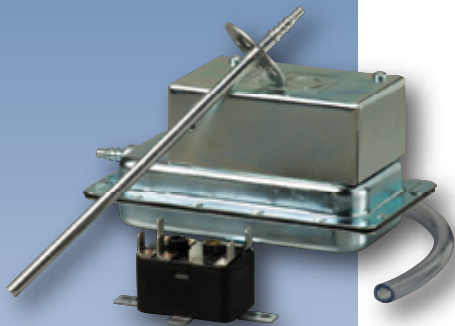
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# Braeburn®

Dear Customer,

Welcome to Braeburn. Zoning Systems is the latest addition to the expanding Braeburn product line. In this catalog, you will see that our dedicated team of specialists has provided the latest in Zoning Systems and accessories for installation by professional contractors worldwide. Braeburn products are available to contractors via our global network of HVACR distributors.

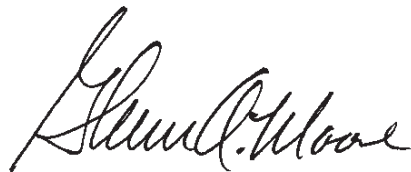
Founded in 2001, our corporate headquarters are located in Montgomery, Illinois, just west of Chicago. This facility is the central hub for all of our customer service, technical support, and various business activities.

Braeburn products are shipped to all of our customers around the globe from UPS Supply Chain Solutions modern distribution and logistics center in Louisville, Kentucky. Rectangular dampers are made to order and shipped from our manufacturing facility in Lubbock, Texas.

At Braeburn, we're committed to providing you with the precision products you would expect from a world class company. Our "Quality by Design" product philosophy focuses on core engineering, manufacturing and reliability testing processes to ensure you receive the product quality you can count on with every job! And our customers aren't the only ones to take notice. Braeburn Systems was a recent recipient of the renowned Frost & Sullivan Award for Growth Strategy Leadership in the North American Thermostats Market.

The Braeburn team is proud to provide zoning systems. We stand behind our products with a 5 year limited warranty on zone panels and dampers, and a 1 year limited warranty on zoning accessories.

From our original Premier and Builder Series Thermostats to our newest Zoning Systems, we provide solutions to lower energy costs and increase comfort in any home or business environment. Our innovative value-added features, reliability and contemporary designs make us the brighter choice in climate controls.



Glenn A. Moore  
President / CEO



## Residential 2 Zone Control Panels

### 140202 2 Heat / 1 Cool

Braeburn two zone panels lead the field in value and ease of installation. Using Braeburn's extensive indoor controls experience, we've packed this two zone panel with the features installers need. Plenty of room to wire, and multiple wiring paths ensure the installation will be neat and quick. Set-once switches eliminate call backs after power failures. Bright LEDs clearly show the state of all dampers and panel power. And our advanced logic eliminates the need for expensive multi-stage thermostats to control the energy saving equipment your customers demand.

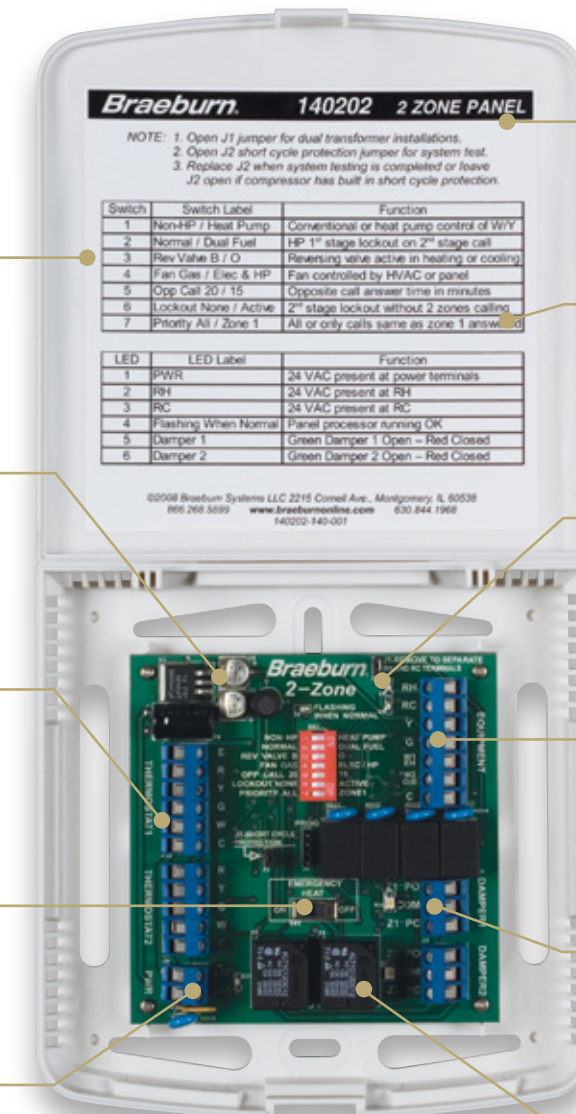


Purchase Braeburn Dampers and QUALIFYING THERMOSTATS with this Zone Panel and **Receive \$10.00** \*per zone contractor rebate

#### Features

- Compact 6 inch x 6 inch housing
- Works with conventional 4 or 5 wire thermostats
- Controls up to 2 heat and 1 cool stage
- Installs on conventional, HP, and dual fuel systems with easy set-up
- Selectable priority for one zone or all
- Compatible with PO / PC three wire dampers and PC / SR two wire dampers
- Requires dedicated 40 VA 24 VAC transformer
- 30 VA damper capacity

\* See [www.braeburnonline.com](http://www.braeburnonline.com) for details.



**2 Zone Capacity**  
controls two independent zones

**Flexible System Options**  
controls conventional, heat pump, electric, and dual fuel systems

**Priority Selection**  
priority can be Zone One or all zones

**Advanced Purge Control**  
maximizes economy and occupant comfort

**Equipment LEDs**  
show power to Rh and Rc terminals

**Thermostat Terminals**  
use with low cost conventional 4 or 5 wire thermostats

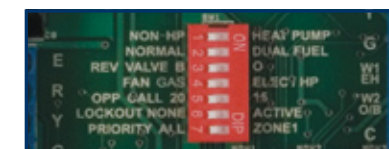
**Easy Wire Terminals**  
control up to 2 heat and 1 cooling stage

**Emergency Heat Switch**  
with remote terminals

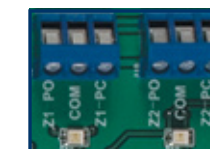
**Damper Terminals**  
with LED open/close indicators

**Power Terminals**  
accepts standard 24 VAC power from transformer. Built in self-resetting fuse helps protect zone panel

**Heavy Duty Relays**  
10 amp capacity for extra durability



Easy set-up dip switch has the options needed for two zone applications.



Easy to wire terminals and damper position LEDs for quick installation and check out





## Residential 3 Zone Control Panels

### 140303 3 Heat / 2 Cool

Braeburn three zone panels feature the latest in controls and easy installation. We started with a solid, easy to open, 8 inch by 8 inch housing and added easy check out with bright LEDs to clearly show the state of all equipment, dampers, and thermostats. Flexible settings allow one panel to work with virtually any system – from single stage conventional to multi-stage dual fuel. Totally automatic features like adaptive time and temperature staging, seamless opposite mode control and flexible zone priority make this advanced panel your best value in zoning today.



Purchase Braeburn Dampers and QUALIFYING THERMOSTATS with this Zone Panel and **Receive \$10.00** \*per zone contractor rebate

### Features

- Works with conventional 4 or 5 wire thermostats
- Controls up to 3 heat and 2 cool stages
- Installs on conventional, HP, and dual fuel systems with easy set-up
- Selectable priority for one zone or all
- Adaptive staging maximizes economy
- Supply air sensor included with panel
- Dual speed fan control by stage or by number of zones calling
- Compatible with PO / PC three wire dampers and PC / SR two wire dampers
- Requires dedicated 40 VA 24 VAC transformer
- 30 VA damper capacity

\* See [www.braeburnonline.com](http://www.braeburnonline.com) for details.

**Flexible System Options**  
controls conventional, heat pump, electric, and dual fuel systems

**Bright LED Display**  
easy to read LED display shows system temperature and purge status

**Advanced Purge Control**  
maximizes economy and occupant comfort

**Thermostat Terminals**  
use with low cost 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 zone panel

**3 Zone Capacity**  
controls up to 3 independent zones

**Priority Selection**  
priority can be Zone One or all zones

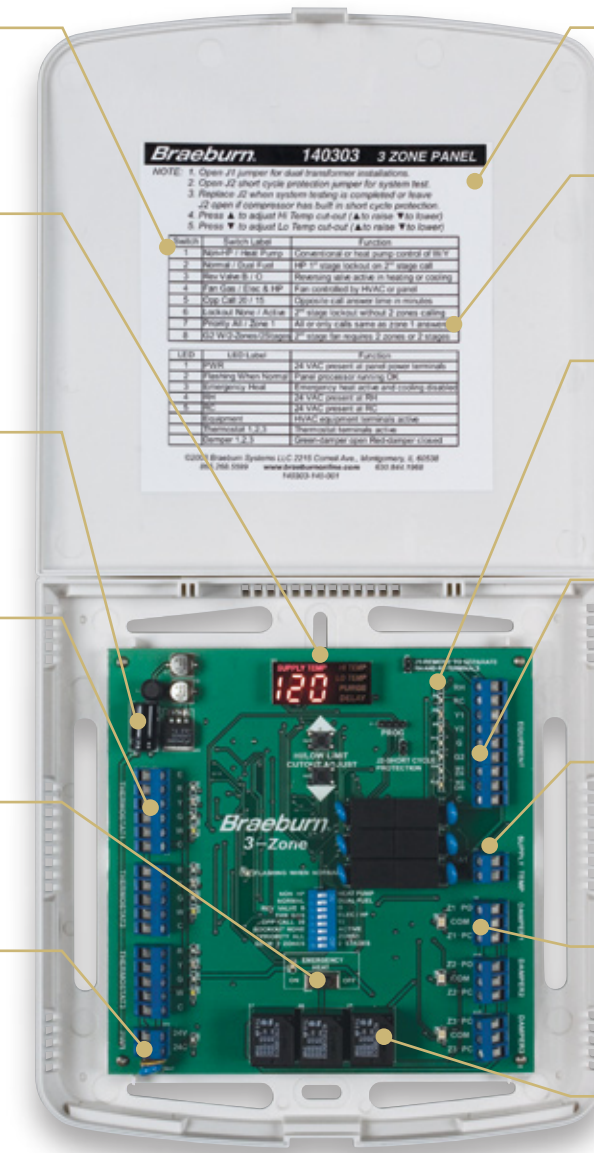
**Equipment LEDs**  
show equipment and thermostat status for easy check out and troubleshooting

**Easy Wire Terminals**  
control up to 3 heat and 2 cooling stages

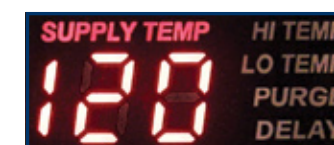
**Supply Air Sensor**  
monitors plenum temperature and provides adaptive staging

**Damper Terminals**  
with LED open/close indicators

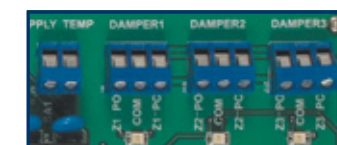
**Heavy Duty Relays**  
10 amp capacity for extra durability



Model 140303



Large display shows equipment temperature and panel condition at a glance



Easy to wire terminals and damper position LEDs for quick installation and check out

## Round Zone Dampers

Braeburn Round Zone Dampers are used to control the volume of air that will be distributed to a zoned area. All dampers are precision spiral formed with stiffing ribs and laser welds at critical seams. All round dampers are stocked for immediate shipment and feature blade position indicators with space age blade seal materials to assure long life and quiet operation.

Power open/power close dampers require 2 VA at 24 VAC. The power close/spring return dampers require 10 VA at 24 VAC.

## Round Dampers

Power Open Power Close	Power Close Spring Return	Power Open Spring Return	Static Bypass	Diameter (Inches)	Length (Inches)
109006	119006	129006	-	6	12
109008	119008	129008	-	8	12
109010	119010	129010	119110	10	12
109012	119012	129012	119112	12	14
109014	119014	129014	119114	14	16
109016	119016	129016	119116	16	18
109018	119018	129018	-	18	20

## Static Bypass Dampers

Braeburn Static Bypass Dampers are used to maintain proper pressure at the system plenum. Static bypass dampers are the economical alternative to electrically controlled three wire bypass dampers. System pressure is controlled by a field adjustable sliding weight, without the use of sensors.

### Features

- Vertical or horizontal mounting
- Reversible control for flexible mounting
- Long life high temperature bushings
- Operates automatically as zone dampers close

## Power Open / Power Close Dampers

Braeburn PO/PC Round Dampers feature three wire, 24 VAC operation for bypass and zone damper control. Reliable push button terminals and two damper position LEDs with positive blade seals make this damper a value choice.

### Features

- 2 Nm high torque actuator (1.5 lbf - ft)
- Designed for use as zone or static bypass damper
- Adjustable minimum and maximum position
- 24 VAC 2 VA universal operation

## Power Close / Spring Return Dampers

Braeburn PC/SR Round Dampers have two wire, 24 VAC operation for zone control. All PC/SR dampers feature reliable push button terminals, LED close indicator, and positive blade seals.

### Features

- Virtually silent clock drive actuator
- 24 VAC 10 VA universal operation







## Rectangular Zone Dampers

Braeburn Rectangular Zone Dampers are made from precision formed aluminum to ensure quick installation. All damper sizes feature blade position indicators. Low friction nylon bearings ensure long life and quiet operation. Rectangular dampers are made to order and ship within 3-4 days.

### Power Open / Power Close Features

- High torque 2 Nm actuator
- 3 wire installation with LED close/open indicators
- For use as zone or bypass damper
- 24 VAC 2 VA universal operation

		Rectangular Power Open / Power Close Dampers				
		Height in Inches				
		8	10	12	14	16
Width in Inches	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

All motors are mounted on the Height Dimension

### Power Close / Spring Return Features

- Virtually silent clock drive actuator
- 24 VAC 10 VA universal operation
- 2 wire installation with LED close indicator
- Use when a normally open damper is needed

		Rectangular Power Close / Spring Return Dampers				
		Height in Inches				
		8	10	12	14	16
Width in Inches	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

All motors are mounted on the Height Dimension



## 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 149020 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

### Zoning System Transformers

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

#### Features

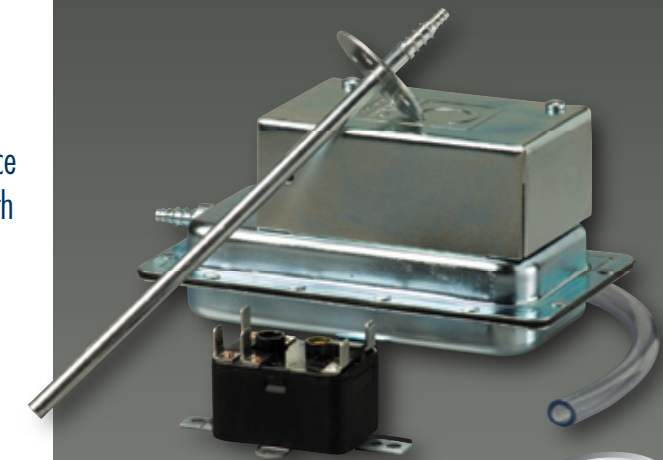
- Available in 40 VA (149040) and 75 VA (149075)
- 40 VA version is 120 VAC
- 75 VA version is 120/208/240 VAC with built-in circuit breaker

### 149090 Emergency Heat Switch Kit

The 149090 is the finishing touch to any zoning system installation. More convenient than the remote switch on the zone panel, this ready to install unit comes with a handy remodelers box.

#### Features

- Wires to remote E-Heat terminals at zone panels
- Built in emergency heat indicator light



# Braeburn Products



Braeburn offers a wide variety of indoor control products. From our cost effective thermostat line to our innovative zoning products, we have a solution for any residential or commercial application.

**866.268.5599** (Voice U.S. Toll-Free)

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**+1.630.844.1968** (Voice Outside the U.S.)

**Visit our website at [www.braeburnonline.com](http://www.braeburnonline.com)**