

# Braeburn®

# 5220

**Up to 3 Heat / 2 Cool Heat Pump**  
**Up to 2 Heat / 2 Cool Conventional**  
**Programmable or Non-Programmable**  
**Thermostat**



ACTUAL SIZE

## Features

- 7 Day, 5-2 Day or Non-Programmable
- Large 5 sq. in. Display with Bright Blue Backlight
- Auto or Manual Changeover
- SpeedBar® Multi-Function Button
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Meets Energy Aware® Guidelines\*
- SpeedSet™ Programming Mode
- Separate User and Installer Reset Buttons
- Auxiliary Heat Fossil Fuel Option
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Adaptive Recovery Mode (ARM™)
- Programmable Fan with On or Auto Modes
- Temporary Override Limits
- Residential and Commercial Modes
- Compatible with 2 or 3 Wire Hydronic Zone Systems
- English / Spanish Packaging and Instruction Card

**PREMIER  
SERIES**

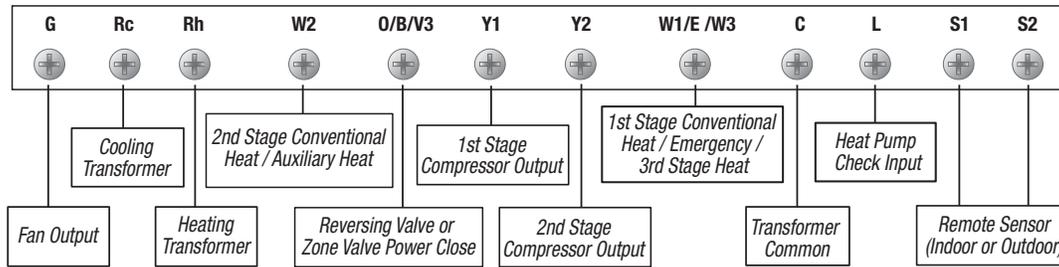
**FREE Contractor Branding! Visit [braeburnonline.com](http://braeburnonline.com)**

\*As a licensee in the Energy Aware Programmable Thermostat Program, Braeburn Systems LLC has determined that this product meets the NEMA Energy Aware efficiency specifications for programmable thermostats. Visit [www.getenergyaware.com](http://www.getenergyaware.com) for more information.

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

# Braeburn®

## Terminal Designations



## Architectural Specifications

The universal auto changeover thermostat shall be a Braeburn® model number 5220, 3.86" high x 5.11" wide x 1.42" deep, powered with either 24 Volt AC or with two "AA" Alkaline batteries (3.0 Volt DC). In the event of a power failure, the unit shall retain all user, installer and program settings. The thermostat shall be compatible with low voltage single stage or multi-stage gas, oil, or electric conventional heating or cooling systems with up to two stages of heating and two stages of cooling, and heat pump systems with up to three stages of heating and two stages of cooling. Also compatible with 250mv – 750mv millivolt heating only systems and 2 or 3 wire hydronic zone systems. The thermostat shall have a bright blue backlight display, SpeedBar®, separate sub-base and multi-level keypad lockout. Temperature control range shall be between 45° and 90° F (7° and 32° C), accuracy of +/- 1° F (+/- .5° C). Operating humidity range between 5% and 95% relative humidity. The thermostat shall include separate installer and user setup modes, residential or commercial setup modes, permanent non-volatile memory to retain user settings, filter, UV and humidifier pad check monitor, adaptive recovery mode (ARM™), programmable fan mode, residual cooling fan delay, indoor or outdoor remote sensor capability, auxiliary heat fossil fuel programming, and compressor power outage protection. A front reset button will return user settings to default values when pressed. Meets California Title 24 and Energy Aware® Guidelines.

## Product Specifications

<b>Dimensions:</b>	3.86" x 5.11" x 1.42"
<b>Electric Rating:</b>	24 Volt AC (18-30 Volt AC) 1 amp maximum load per terminal 5 amp total maximum load (all terminals)
<b>AC Power:</b>	18-30 Volt AC
<b>DC Power:</b>	3.0 Volts DC (2 "AA" Alkaline batteries included)
<b>Compatibility:</b>	Heat pump systems up to 3 heat/2 cool, Conventional systems up to 2 heat/2 cool 250mv – 750mv millivolt heating systems
<b>Control Range:</b>	45° to 90° F (7° to 32° C)
<b>Display Range:</b>	40° to 99° F (5° to 37° C)
<b>Accuracy:</b>	+/- 1° F (+/- .5° C)
<b>Temperature Differential:</b>	1st Stage - .5°, 1°, or 2° F (0.2°, 0.5°, or 1° C) 2nd and 3rd Stage - 1°, 2°, 3°, 4°, 5°, or 6° F (.5°, 1°, 1.5°, 2°, 2.5°, or 3° C)
<b>Storage Temperature:</b>	14° to 140° F (-10° to 60° C)
<b>Operating Humidity:</b>	5% to 95% Relative Humidity
<b>Terminations:</b>	G, Rc, Rh, W2, O/B/V3, Y1, Y2, W1/E/W3, C, L, S1, S2

## Shipping Information

<b>INDIVIDUAL CARTON</b>	<b>MASTER CARTON</b>
<b>Dimensions:</b> 5.0" x 6.3" x 2.0"	<b>Quantity:</b> 6
<b>Weight:</b> .92 lbs.	<b>Dimensions:</b> 6.4" x 13" x 5.6"
	<b>Cubic Feet:</b> .27
	<b>Weight:</b> 6 lbs.

## Braeburn 5220 Replaces\*

<b>Honeywell®</b>	TH6220, TH6320
<b>White-Rodgers®</b>	1F85-277, 1F85-0422, 1F85-0471, 1F85-0477, 1F93-380

\*Verify specific application requirements.  
All trademarks are the property of their respective owners.

## Accessories

2950 Universal Wall Plate (6.5" x 6.5" x .125")	5390 Remote Indoor Sensor
5970 Universal Thermostat Guard	5490 Remote Outdoor Sensor

## FREE Contractor Branding Available!

Visit our website ([www.braeburnonline.com](http://www.braeburnonline.com)) for more information, contact your local distributor or call our sales department toll-free at 866.268.5599 (U.S.), +1.630.844.1968 (Outside the U.S.).

Date: \_\_\_\_\_  
 Job Name: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Contractor: \_\_\_\_\_

Engineer: \_\_\_\_\_  
 Model No.: \_\_\_\_\_  
 Submitted By: \_\_\_\_\_  
 Submitted For Approval: \_\_\_\_\_ Record: \_\_\_\_\_

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