

# Braeburn®

## 5020

**2 Heat / 1 Cool Heat Pump  
1 Heat / 1 Cool Conventional  
Universal Programmable Thermostat**



## 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
- SpeedSet® Programming Mode
- Meets Energy Aware® Guidelines\*
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Auxiliary Heat Fossil Fuel Option
- Separate User and Installer Reset Buttons
- Programmable and Circulating Fan Modes
- Adaptive Recovery Mode (ARM™)
- Temporary Override Limits
- Residential or Commercial Modes
- Compatible with 2 or 3 Wire Hydronic Zone Systems
- Trilingual Packaging and Instruction Card with FREE Contractor Branding

**PREMIER  
SERIES**

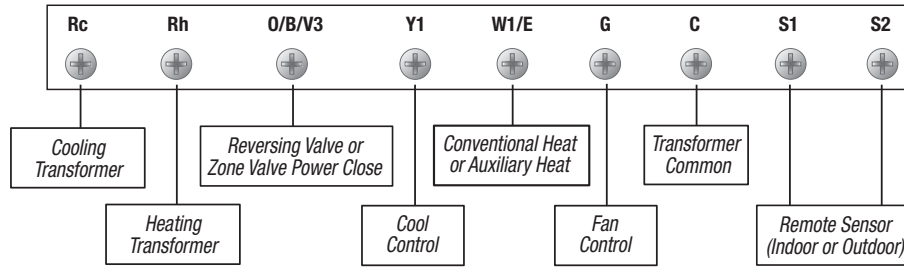
**FREE Contractor Branding! Visit [braeburnonline.com](http://braeburnonline.com)**

\*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 5020, 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 gas, oil, or electric heating or cooling systems, and single stage heat pumps with auxiliary heat. 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) and operating humidity range between 5% and 95% relative humidity. The thermostat shall include separate installer and user 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 and indoor or outdoor remote sensor capability. A front reset button will return user settings to default values when pressed. Meets 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 3 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>	Single stage gas, oil or electric systems Single stage heat pumps with or without auxiliary heat 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>	.5°, 1°, or 2° F (0.2°, 0.5°, or 1° 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>	Rc, Rh, O/B/V3, Y1, W1/E, G, C, 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 5020 Replaces\*

<b>Honeywell®</b>	TH6110D, TH6210U, TH6220D
<b>Emerson®</b>	1F80-0471, 1F85-0422, 1F85U-22PR,

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

## Accessories

2920 Vertical J-Box Adapter Wall Plate	5390 Remote Indoor Sensor
2950 Universal Wall Plate (6.5" x 6.5" x .125")	5490 Remote Outdoor Sensor
5970 Universal Thermostat Guard	

## 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: \_\_\_\_\_

Braeburn Systems LLC • 2215 Cornell Avenue • Montgomery, IL 60538 • Toll-Free 866.268.5599 (U.S.) +1.630.844.1968 (Outside the U.S.)