

# Braeburn®

## 4020 Heat Only Hydronic Universal Programmable Thermostat



ACTUAL SIZE

### Features

- 7 Day, 5-2 Day or Non-Programmable
- Large Display with Adjustable Backlight
- Minimum Boiler off Time
- Freeze Protection
- High/Low Floor Limits
- Remote Floor/Slab Sensing\*
- SmartLimit® Temperature Limits
- Indoor or Outdoor Remote Sensing\*
- SpeedSet® Programming Mode
- Hardwire or Battery Powered
- User and Installer Lock Modes
- Adaptive Recovery Mode (ARM™)
- Temporary Override Limits
- Compatible with 3 Wire Hydronic Zone Systems

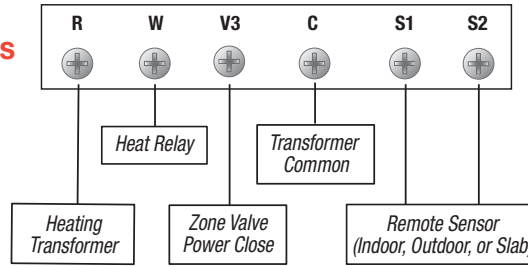
\*Separate remote sensor required.

**PREMIER  
SERIES**

**FREE Contractor Branding  
on Removable Face Plate!**

**Residential or Commercial**

## Terminal Designations



## Architectural Specifications

The heat only hydronic thermostat shall be a Braeburn® model number 4020, 4.25" high x 5.12" wide x 1" 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 hot water, steam or under floor hydronic heating systems. Also compatible with 250mv – 750mv millivolt heating only systems and 3 wire hydronic zone systems. The thermostat shall have an adjustable bright blue backlight display, 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, adaptive recovery mode (ARM™), remote sensor capability, slab sensor compatibility, freeze protection and high/low floor limits.

## Product Specifications

<b>Dimensions:</b>	4.25" x 5.12" x 1"
<b>Electric Rating:</b>	24 Volt AC (18-30 Volt AC) 2 amp maximum load per terminal 4 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 hydronic heating systems 250mv – 750mv millivolt heating systems
<b>Control Range:</b>	45° to 90° F (7° to 32° C)
<b>Display Range:</b>	35° to 99° F (1.5° to 37° C)
<b>Accuracy:</b>	+/- 1° F (+/- .5° C)
<b>Temperature Differential:</b>	0.5°, 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>	R, W, V3, C, S1, S2

## Shipping Information

<b>INDIVIDUAL CARTON</b>	<b>MASTER CARTON</b>
<b>Dimensions:</b> 6.13" x 5.13" x 1.75"	<b>Quantity:</b> 6
<b>Weight:</b> .95 lbs.	<b>Dimensions:</b> 11" x 6.63" x 5.75"
	<b>Cubic Feet:</b> .24
	<b>Weight:</b> 6.25 lbs.

## Braeburn 4020 Replaces\*

<b>Honeywell®</b>	TH6100AF2004
<b>Tekmar®</b>	518, 519, 561
<b>Azel®</b>	D-502F
<b>Taco</b>	568-22

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

## Accessories

2940 Universal J-Box Adapter Wall Plate	5490 Remote Outdoor Sensor
5970 Universal Thermostat Guard	AFTS40M Floor/Slab Sensor
5390 Remote Indoor Sensor	

## FREE Contractor Branding on Removable Faceplate!

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:** \_\_\_\_\_