STEALTH™

HAND OVER HEAT

Stealth 360™
On-Site Guide

Version 22.3
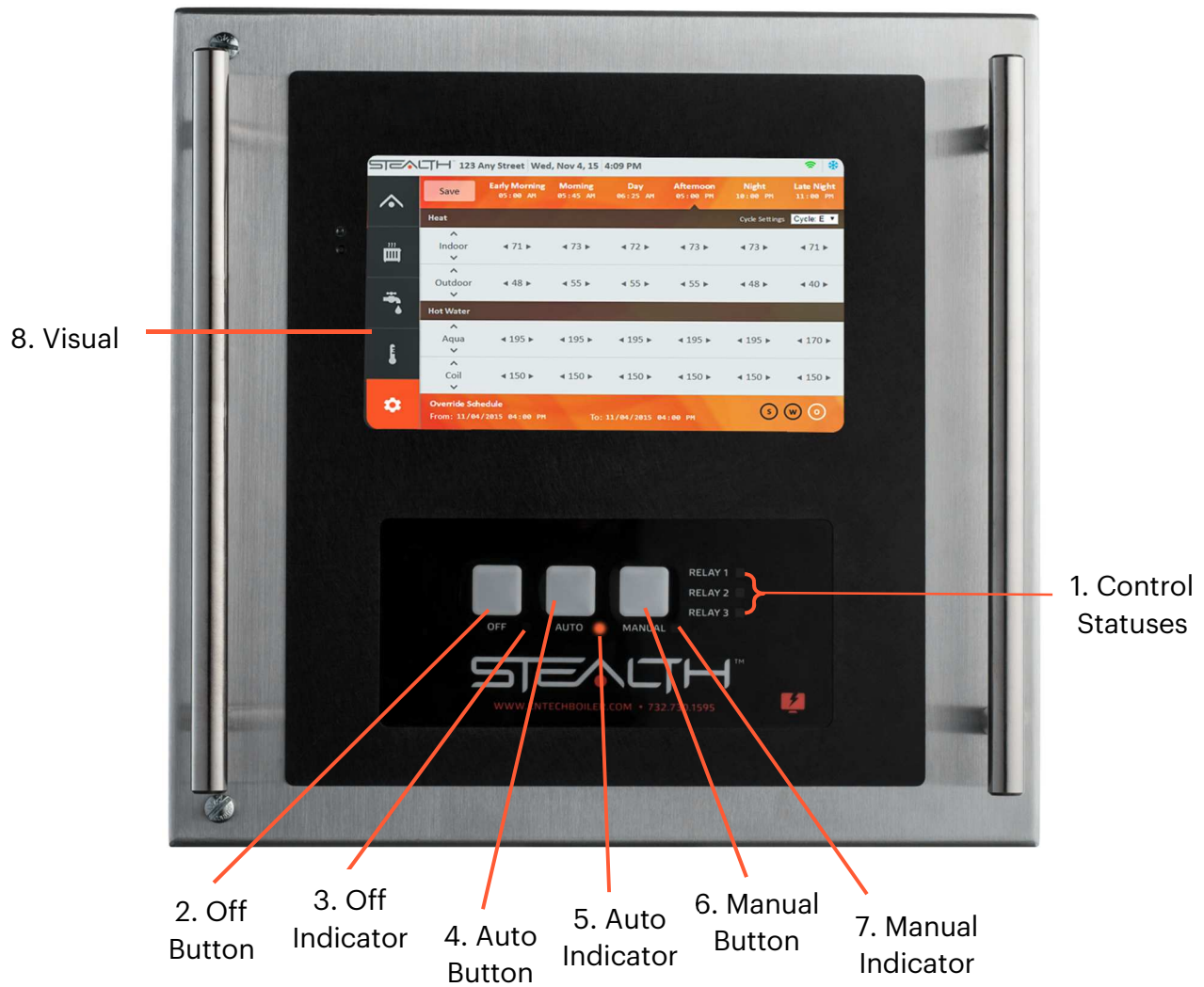

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Overview

The Stealth™ is a reliable and effective heat and hot water control system that requires minimal on-site involvement. This guide is designed to help you navigate the Stealth™ on-site. Utilizing numerous wireless sensors in the units, outdoors, and in the boiler room, it determines how much heat and hot water to supply, ensuring tenant satisfaction and providing management with fuel and financial savings.

Navigating the Stealth

8. Visual

1. Control Statuses

2. Off Button

3. Off Indicator

4. Auto Button

5. Auto Indicator

6. Manual Button

7. Manual Indicator

1. **Control Statuses**

   Verify which controls (i.e. boiler, pump, valve) are calling for On.

2. **Off Button**

   Press this button to turn the Stealth to Off. When in Off, heat and hot water settings are not active and the Stealth will not turn on the boiler.

3. **Off Indicator**

   When lit up, indicates the Stealth is in Off mode.

4. **Auto Button**

   Press this button to turn the Stealth to Auto. When the Stealth is in Auto, heat and hot water settings are active.

5. **Auto Indicator**

   When lit up, indicates the Stealth is in Auto mode.

6. **Manual Button**

   Press this button to turn the Stealth to Manual.

   WARNING: Setting your Stealth to Manual causes the system to run continuously without regard for heat and hot water settings. Make sure to switch back to Auto as soon as possible to prevent overheating and possible equipment damage.

7. **Manual Indicator**

   When lit up, indicates the Stealth is in Manual mode.

8. **Visual**

   The Visual is the heart of the Stealth and includes five tabs, each depicting a different aspect of the Stealth control. Stealth settings can be adjusted from the Visual, as will be explained in detail in this manual.

   Please Note: You will be prompted to enter an Entry level password when tapping to view control, heat or hot water history, or sensor readings history, as well as when switching tabs.

Visual

Homepage
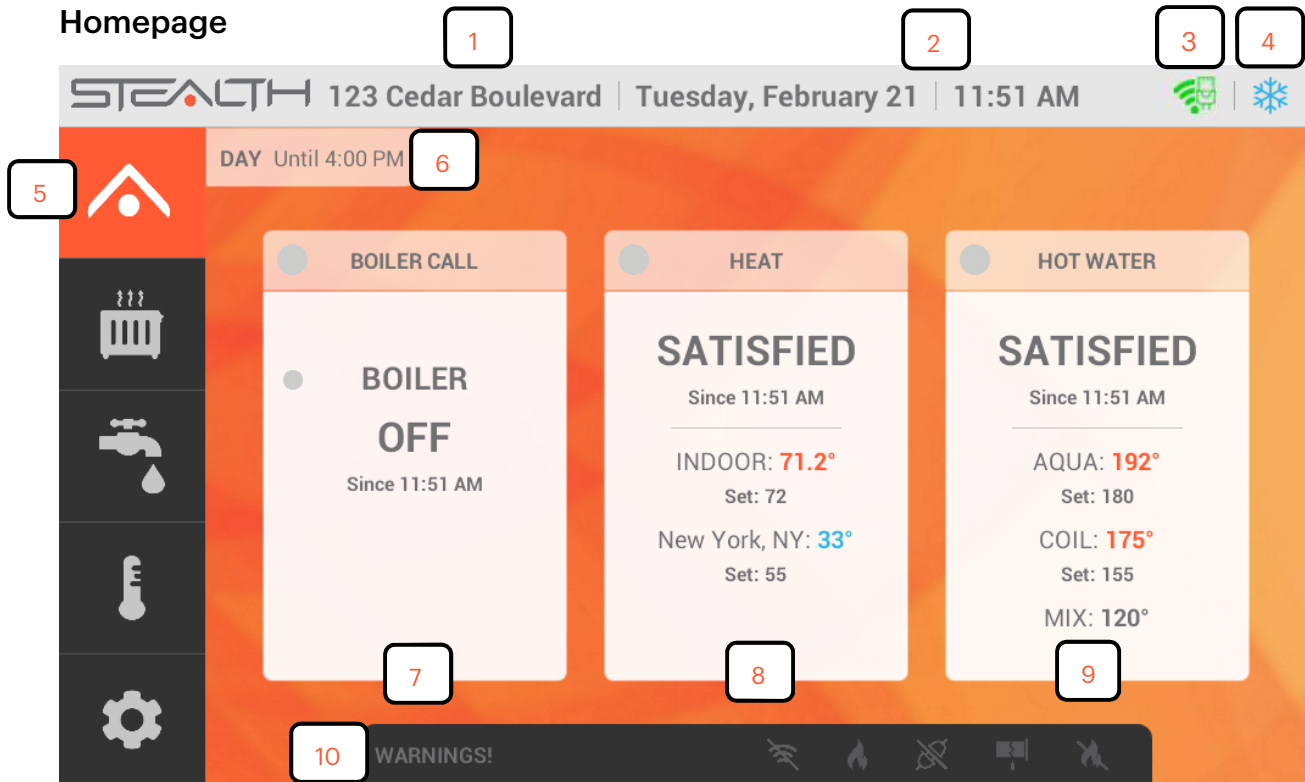
1. **Building Address**

2. **Date and Time**

3. **Connection Status and Network Access** – Indicates if the Stealth is online, whether connection is hardwired or through Wi-Fi, and displays signal strength. When offline, the symbol will be greyed out and slashed through. Provides access to Wi-Fi Networks page

4. **Season Mode** – A blue snowflake shows when in Winter mode, a sun shows when in Summer mode. Tap the snowflake/sun to change the season mode.

5. **Homepage Tab**

6. **Current Setpoint**

7. **Control Call** – Advises if boiler, pump, valve, etc. are running/opening/closing. Tap to view history.

8. **Heat Status** – Shows whether the Stealth is calling for heat, along with the associated settings and temperatures. Tap to view history.

9. **Hot Water Status** – Advises if the Stealth is calling for hot water, along with the associated settings and temperatures. Tap to view history.

10. **Warnings Dashboard –** Any open issues are lit up.

Heat View
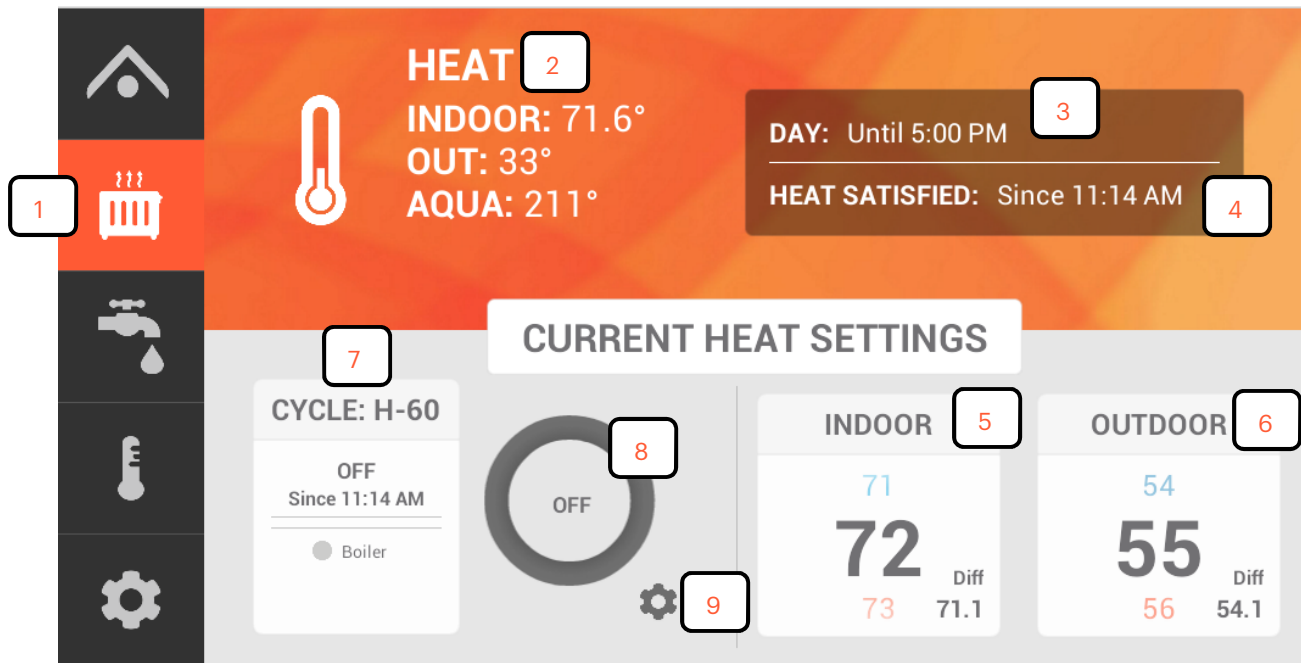
1. **Heat View Tab**

2. **Heat Related Temperatures**

3. **Current Setpoint**

4. **Heat Status**

5. **Indoor Setting** – Diff incorporates the differential into the setting. Slide the setting up or down and tap Hold to adjust the setting temporarily (Administrator level password required).

6. **Outdoor Setting** – Diff incorporates the differential into the setting. Slide the setting up or down and tap Hold to adjust the setting temporarily (Administrator level password required).

7. **Cycle Status** – Indicates if the cycle is currently in the Trigger phase, Cycle phase, Standby phase or is Off

8. **Visual Cycle Status** – The circle fills out as each cycle phase elapses.

9. **Cycle Configuration Access** – Requires Administrator level password to access

Hot Water View
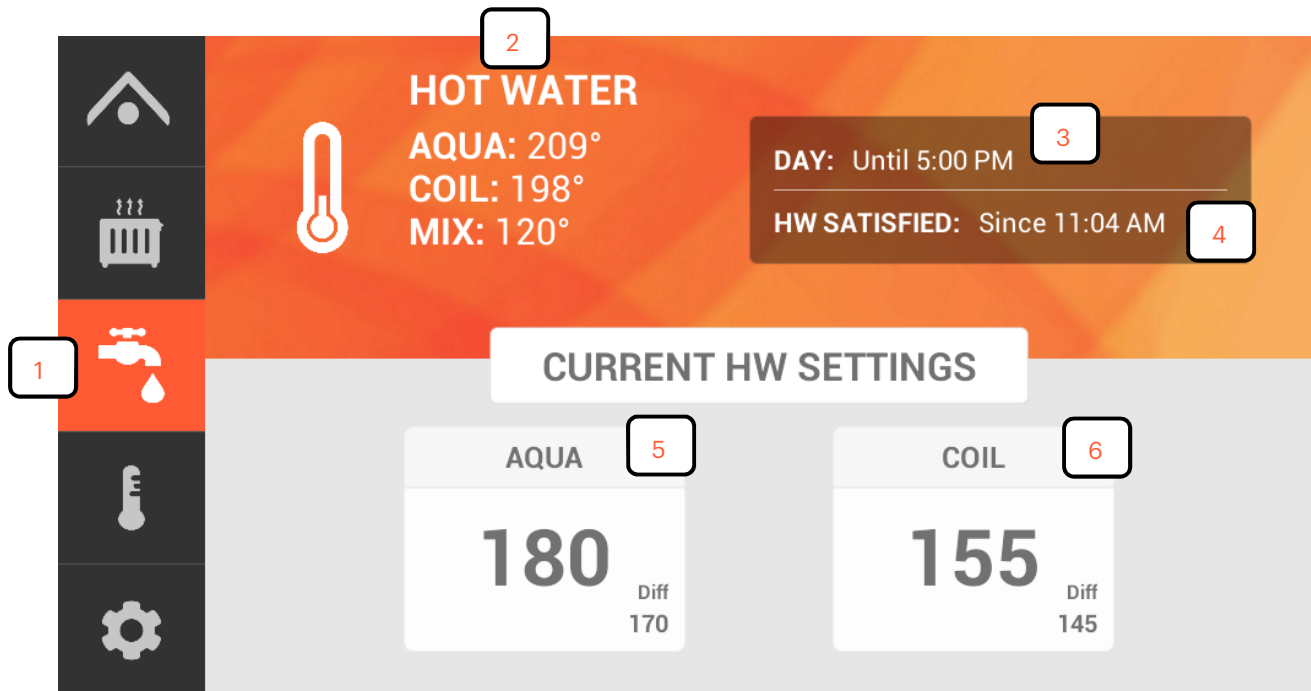
1. **Hot Water View Tab**

2. **Hot Water Related Temperatures**

3. **Current Setpoint**

4. **Hot Water Status**

5. **Aqua Setting** – Diff incorporates the differential into the setting.

6. **Coil Setting** – Diff incorporates the differential into the setting.

Readings
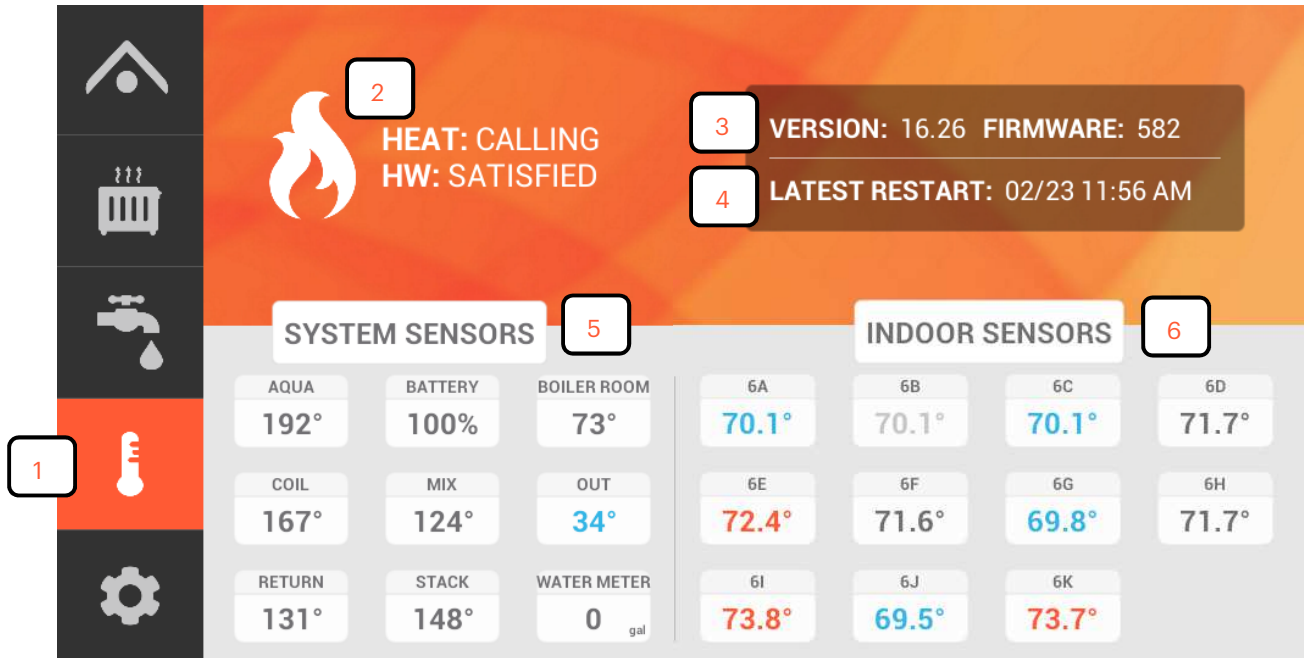
1. **Readings Tab**

2. **Heat and Hot Water Status**

3. **Software and Hardware Versions**

4. **Latest Restart**

5. **System Sensors** – All boiler room sensor readings are displayed here. Use the slider to view additional sensors.

6. **Indoor Sensors** – All Indoor sensor readings are displayed here. Use the slider to view additional sensors.

Settings

Please Note: To access Settings, you will need to enter an Administrative level password.

	Early Morning 5:00 AM	Morning 5:45 AM	Day 6:25 AM	Afternoon 5:00 PM	Night 10:00 PM	Late Night 11:00 PM
HEAT						
INDOOR	70 / **71** / 72	72 / **73** / 74	71 / **72** / 73	72 / **73** / 74	72 / **73** / 74	70 / **71** / 72
OUT	47 / **48** / 49	54 / **55** / 56	54 / **55** / 56	54 / **55** / 56	47 / **48** / 49	39 / **40** / 41
HOT WATER						

Standard Schedule   S W O

	Early Morning	Morning	Day	Afternoon	Night	Late Night
HOT WATER						
AQUA	179 / **180** / 181	179 / **180** / 181	179 / **180** / 181	179 / **180** / 181	179 / **180** / 181	179 / **180** / 181
COIL	159 / **160** / 161	159 / **160** / 161	159 / **160** / 161	159 / **160** / 161	159 / **160** / 161	159 / **160** / 161

1. **Settings Tab**
2. **Setpoints**
3. **Heat Settings Section**
4. **Indoor Settings** – Tap the up or down arrow to raise/lower the whole range of setpoints. Slide up or down on an individual setpoint's setting to raise/lower just that setpoint (applies to all settings).
5. **Out Settings**
6. **Hot Water Settings Section**
7. **Aqua Setting**
8. **Coil Setting**
9. **Standard Heat Settings Tab**
10. **Weekend Heat Settings Tab** – Settings can be customized for over the weekend.
11. **Override Heat Settings Tab** – Put in custom heat settings for a specified period of time.
12. **Save Settings Button**

Troubleshooting Tips

Insufficient Heat

If complaints of insufficient heat are being received:

- Check if the Stealth is calling for heat. If it is not, a setting/cycle adjustment or override may be needed.
- If the Stealth is calling and the boiler is not running, see "Boiler Unresponsive" below.
- If the Stealth is calling and the boiler is running, check that the heat is reaching the radiators by assessing pressure, short cycling, etc. Cycle data can be found on the Stealth heat tab.

Boiler Unresponsive

- Rule out boiler failure by resetting the boiler or forcing on the boiler from other limits, such as an aquastat.
- If it is verified that this is a Stealth issue, use the following steps to pinpoint what the problem is:
    - Hit the manual button on Stealth, which closes the normally open relay;
    - Check for any blown fuses, and replace as needed;
    - Contact an EnTech Certified Contractor for further assistance.

Excessive Heat

If complaints of excessive heat are being received:

- Check if the Stealth is calling for heat. If it is, settings may need to be lowered.
- To rule out the Stealth as the cause:
    - Press OFF, which opens the relay.
    - Confirm that boiler is not running from a different source, such as an alternate control, etc. The Stealth screen would display Boiler Bypass.
    - If so, ensure that it is no longer overriding the Stealth settings and return the Stealth to Auto.
- In rare circumstances, the relay may be stuck closed. If after the above troubleshooting, the boiler is still running, contact an EnTech Certified Contractor.

High/Low Domestic Hot Water Temperatures

- The Stealth hot water control acts as a remote aquastat. It does not control the actual domestic hot water temperatures.
- Confirm settings are adequate and assess 24 hours of history by tapping Hot Water on the Stealth homepage to determine times of high/low temps.
- Please note that certain buildings may have a delay setting on the aqua call by monitoring the coil temperature as well. The boiler will kick on when the aqua and coil fall below the setting.

Water Loss

- The Stealth water meter is a single gallon pulse meter with a local dial that can be used for troubleshooting.
- 24 hours of reading data can be accessed on the Readings page of the Stealth. Additional data available online.

Stealth Offline

Remote connection to the Stealth on-site has been lost; connection symbol is slashed out.

- For hardwired connection: Reboot the modem, and if applicable, the router. If the Stealth is still offline, reboot the Stealth by unplugging it from the power source, waiting one minute, and plugging it back in.

  For Wi-Fi connection: Access the Networks page using the password 0000 and verify if the Stealth is connected to a Wi-Fi network with adequate signal strength. If not, reboot the modem and router and if the Stealth is still offline, reboot the Stealth by unplugging it from the power source, waiting one minute, and plugging it back in.

- If this does not restore connection, contact the internet provider. If all is in order with the internet service, an IT may be needed to diagnose the network issue.

Relay Wiring Diagram