

ASPIRE CONTROL SERIES

Installation and Operating Instructions

Infrared (IR)

TYLÖ

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Sauna360 congratulates you on your decision to enjoy the finest sauna available...

Welcome to the growing family of Tylö® sauna owners.

Before you begin reviewing the manual, please take a moment to register your warranty. Doing so will assist us in contacting you for any important notification.

Prior to registering, you will need the serial number(s) located on the equipment.

To register, please go to <http://tylo.com/en-us/warranty>



FOR YOUR RECORDS

Control Model/Serial Number: _____

Date Purchased: _____

Dealer: _____

Address: _____

Phone Number: _____

Website/Email: _____

If questions arise regarding this product or this manual, please contact your authorized *Tylö* dealership. They are trained professionals who are familiar with the product as well as new sauna ownership concerns. Their expertise will facilitate the enjoyment of your new *Tylö* sauna.

IMPORTANT: SAUNA360 reserves the right to change specifications or design without notification and without incurring any obligation.

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Table of Contents

SECTION 1. BEFORE YOU BEGIN 1

SECTION 2. SAFETY INFORMATION 2

 2.1. CONSTRUCTION and INSTALLATION SAFETY 2

 2.2. USER and OPERATIONAL SAFETY 3

SECTION 3. CONTROL INSTALLATION 4

 3.1. ROUGHING in the CONTROL 4

 3.2. INSTALLING the CONTROL 4

SECTION 4. INSTALLING LIGHTS 4

SECTION 5. OPERATING the CONTROL 5

SECTION 6. INSTALLING the TYLÖ SAUNA APP on APPLE DEVICE 7

 6.1. Network Pairing 8

SECTION 7. ADD to an APPLE DEVICE 9

SECTION 8. APPLE WIRELESS OPERATION 12

SECTION 9. INSTALLING the TYLÖ SAUNA APP on ANDROID DEVICE 13

 9.1. Network Pairing 14

SECTION 10. ADD to an ANDROID DEVICE 15

SECTION 11. ANDROID WIRELESS OPERATION 18

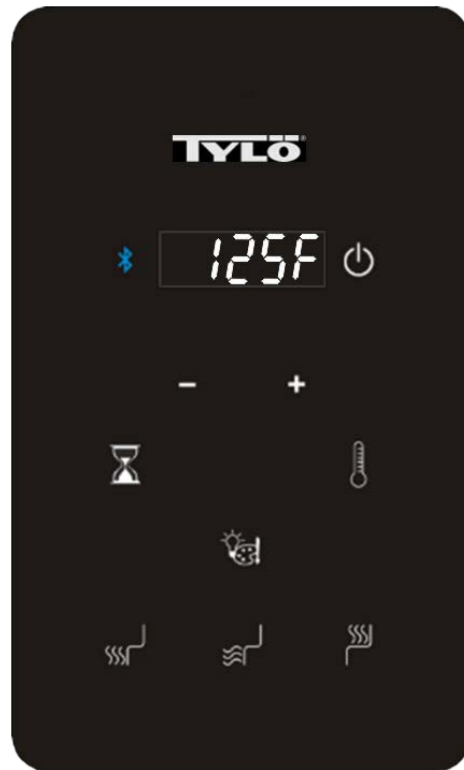
SECTION 12. MAINTENANCE 19

SECTION 13. TROUBLESHOOTING 19

SECTION 14. CONTROL CUT-OUT PATTERN 21

SECTION 1. BEFORE YOU BEGIN

This manual is for operation of the Aspire IR 1601-39 control with its associated IR emitters. This control is ETL approved by Intertek for permanent installations and electrical connections. Refer to the associated IR **Installation and Operating Instructions** for complete information about the electrical wiring and IR installation.



Aspire IR
(1601-39)

Figure 1.

For best results and for protection of product warranty, please read, understand and follow all associated safety information, safety placards, and associated IR **Installation and Operating Instructions**.



IMPORTANT: For health and fire safety, never attempt to alter or bypass the timer or thermostat. If the sauna is operated without using the automatic timer, an attendant must be present at all times.

If questions arise regarding use of this control and associated heater or this manual, please contact your sauna dealer.

SECTION 2. SAFETY INFORMATION

2.1. CONSTRUCTION and INSTALLATION SAFETY



WARNING - ELECTRIC SHOCK HAZARD: High voltage exists within this equipment. There are no user-serviceable parts within this equipment. Have the equipment installed and serviced only by qualified and licensed personnel in accordance with local and national codes.



WARNING - ELECTRIC SHOCK HAZARD: DO NOT install electrical receptacles inside the sauna room.



WARNING: If installing a fire sprinkler system inside the sauna room, ensure it is properly rated for sauna room temperatures.



CAUTION: When assembly is completed, ensure proper ventilation is provided and airflow is not restricted.



CAUTION: Loose electrical connections can cause heat damage to wires, terminal blocks and other components. Improper connections may void product warranty. Ensure all electrical connections are installed and inspected by qualified and licensed personnel.



IMPORTANT: The door to the sauna room must open outward, to the exterior of the sauna room.



IMPORTANT: DO NOT install a lock or mechanical locking device onto the door of the sauna room. If needed, use only a magnetic or spring-loaded catch mechanism that allows the door to open when pressed or pulled.



IMPORTANT: To prevent electrical shock, provide adequate electrical grounding to the electrical receptacle.



IMPORTANT: Do not install a shower in the sauna room.

NOTE: Use only approved sauna room materials for interior construction of the sauna room. Installation of unapproved materials or accessories may void product warranty.

NOTE: To protect product warranty, only qualified licensed personnel should perform installation and service to this equipment.

NOTE: A GFCI (Ground-Fault Circuit Interrupter) device is not required by NEC. Only install a GFCI if required by local codes, however, be aware this will cause nuisance electrical circuit trips during use of the product.

2.2. USER and OPERATIONAL SAFETY



WARNING: Prolonged exposure to elevated temperatures can induce hyperthermia. Hyperthermia occurs when internal body temperature reaches several degrees above normal (98.6°F). Symptoms of hyperthermia include an increase in body temperature, dizziness, lethargy, drowsiness, and fainting. Effects of hyperthermia include failure to perceive heat, failure to recognize the need to exit the room, unawareness of impending hazard, fetal damage in pregnant women, physical inability to exit the room and unconsciousness.



WARNING: DO NOT take a sauna if using alcohol, recreational drugs, or prescribed medication as these may greatly increase risk of hyperthermia, personal injury or death.



WARNING - FIRE HAZARD: DO NOT use the sauna room for drying clothes, bathing suits, towels, etc. **DO NOT** hang towels or place combustible materials on or next to the IR emitters.



WARNING - FIRE HAZARD: IMMEDIATELY DISCONTINUE using the sauna if the walls or ceiling exhibit unusual discoloration and/or darken in color.



WARNING - HOT SURFACES: The IR emitters become hot during operation. Keep hair, head, hands, body, and appendages on the safe side of guard rails. Provide close visual supervision to children, minors, and vulnerable individuals while in use.



IMPORTANT: If pregnant or a person in poor health, consult with a physician before using sauna.



IMPORTANT: DO NOT exercise, play or roughhouse while using the sauna. Be safe and respectful of everyone.



IMPORTANT: Keep children, minors, and vulnerable individuals safe. Be a responsible sauna user. When needed, provide operating instructions to those less experienced. Keep operation of the sauna safe for yourself and others to enjoy.



IMPORTANT: Do not spray water on infrared emitters. Use of water on infrared emitters may cause damage and will void the warranty.

NOTE: Inspect the sauna regularly. Check for maintenance of the heater, control, and benches. Replace wood surfaces should any show signs of deterioration.

SECTION 3. CONTROL INSTALLATION

3.1. ROUGHING in the CONTROL

The Aspire IR control is weather resistant and water resistant, allowing for mounting on either the interior or exterior of the sauna room. When installing on the interior, see the associated IR room ***Installation and Operating Instructions*** for positioning requirements.

1. At the desired location, cut a rectangular hole (see "SECTION 14. CONTROL CUT-OUT PATTERN" on page 21) into the wall for attaching the control. See Figure 2.
2. Route the RJ11 control cable from the CB Box to the rough opening cut for the control

NOTE: Use only the factory-supplied RJ11 control cable. **DO NOT** run staples through or otherwise damage the cable.

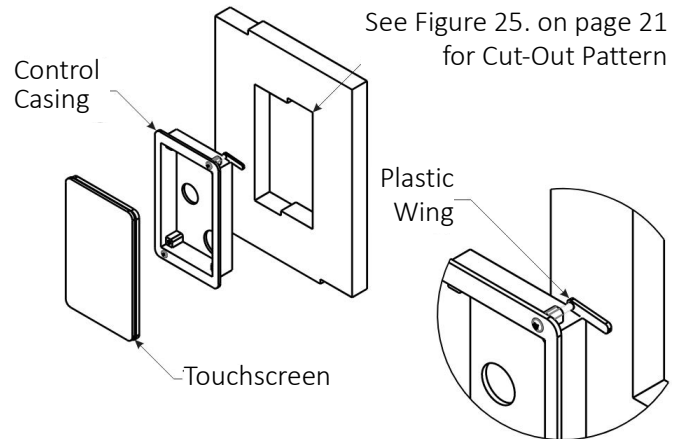


Figure 2. Roughing in the Control

3.2. INSTALLING the CONTROL

1. Using a flat blade screw driver, remove the glass touch screen from the plastic control casing. See Figure 3.
2. From the included parts, attach two (2) plastic "wings" to the two (2) mounting screws provided.
3. Pass the end of the RJ11 through the cable opening on the back of the plastic control casing.
4. Connect the RJ11 cable to the female RJ11 jack located on the back of the control.
5. Secure the plastic control casing into the roughed wall opening using the two (2) mounting screws with plastic wings.
6. Carefully re-attach the glass touch screen into the plastic control casing.
7. Route the other end of the RJ11 cable through an access hole located on the bottom of the CB Box.
8. Connect the RJ11 cable to the CN1 female RJ11 jack.

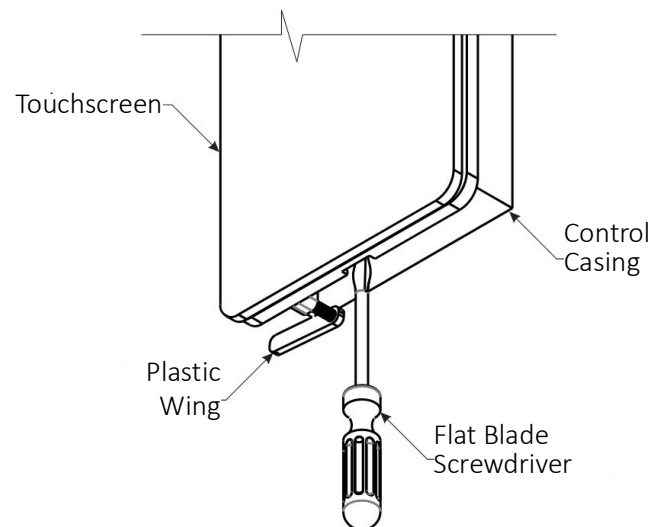


Figure 3. Removing the Touchscreen

For instructions on operating the control, see "SECTION 5. OPERATING the CONTROL" on page 5.

SECTION 4. INSTALLING LIGHTS

Lights are optional equipment. The control is capable of operating **ONLY** one lighting package purchased with the system.

Use **ONLY** approved lighting available from your dealer for this control system. Refer to your specific LED lighting package for installation instructions.

SECTION 5. OPERATING the CONTROL

The instructions provided here are for operating an Aspire IR control.

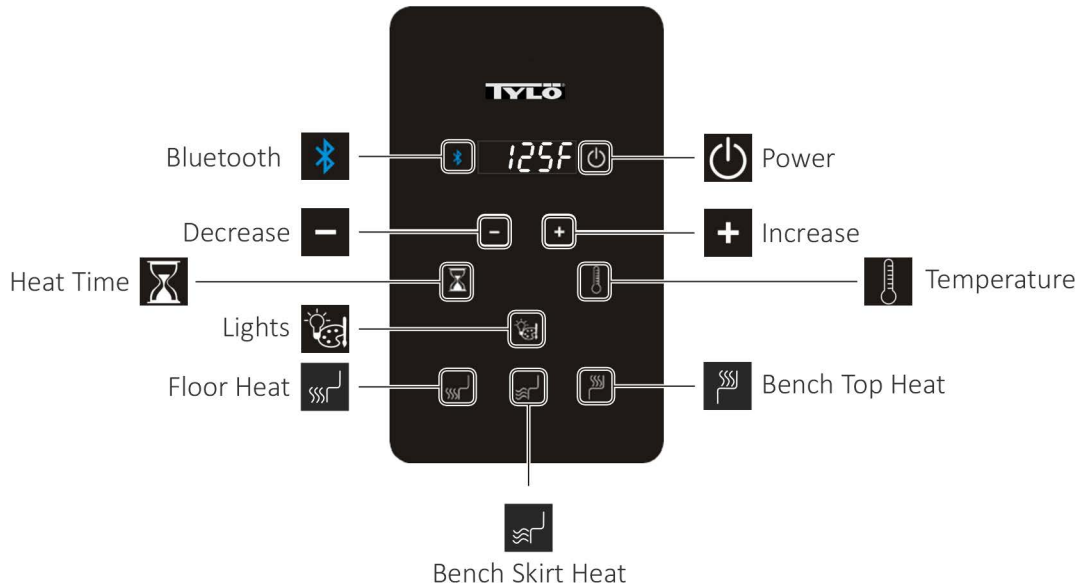


Figure 4. Control Icons

APPLYING POWER

Press the **Power** icon once. The default settings for the temperature is 149°F, the bath time is 60 minutes. These settings are adjustable (as described below) from 119° to 149°. Length of the sauna can be set from 0 to 60 minutes. Any changes are remembered by the control for your next bath. Should power to the sauna room be lost then restored, the settings will return to their default values.

Press the **Bench Top Heat** icon to turn on/off the bench heat.

Press the **Bench Skirt Heat** icon to turn on/off the skirt heat.

Press the **Floor Heat** icon to turn on/off the floor heat.

SETTING DURATION and TEMPERATURE

Press the **Heat Time** icon for time, then press the **Increase** or **Decrease** icon to increase or decrease the amount of minutes (in 15 minute increments) to the desired setting. The maximum setting is 60 minutes.

Press the **Temperature** icon to toggle the display temperature between **C** or **F** and then press/hold the **Increase** or **Decrease** icon to increase or decrease the amount of heat to the desired setting. The maximum setting is 149°F (65°C).

LIGHTING OPERATION

Press the **Lights** icon to cycle through lighting options.

Sequence of colors are- White- Red- Green- Blue- Yellow- Aqua- Purple- Rotation of colors- Off.

Make a color choice, then set brightness. The brightness adjustment is available on the display for three (3) seconds. Press either the **Increase** or **Decrease** icon to increase or decrease the brightness. Brightness settings available are 25, 50, 75, and 100%.

Press and hold the **Lights** icon for three (3) seconds to turn off the light. Alternatively, cycle through the colors to turn off.

BLUETOOTH® AUDIO (Optional)

The Aspire IR control is capable of operating **ONLY** a Bluetooth package purchased with the system. Press the **Bluetooth** icon to turn on or off the system.



IMPORTANT: Most Apple® products are rated to operate within a temperature range of 32°F to 95°F. The warranty for the Apple product may become null and void if operated inside a sauna room where the temperature exceeds the manufacturers maximum recommended temperature rating.

SECTION 6. INSTALLING the TYLÖ SAUNA APP on APPLE DEVICE

Use the following instructions to install the *Tylö Sauna App* onto your Apple smart phone or tablet. If installing on an Android device, see “SECTION 9. INSTALLING the TYLÖ SAUNA APP on ANDROID DEVICE” on page 13.

1. Download the *Tylö Sauna App* and install onto your smart phone or tablet by scanning the QR Code from the figure below, or by searching for “Tylo” in the appropriate app store from your smart device.



Figure 5. Apple Store QR Code

When the *Tylö Sauna App* is opened for the first time, it prompts with options to *Log In* (to an *Existing Account*) or *Sign Up*.

2. Tap the *Sign Up* option and follow prompts to complete the registration requirements.
 - A valid email address is required to complete the registration process.
 - Agree to the *Privacy Policy* and *User Agreement*.

NOTE: Screens provided in this manual are for reference only. Actual screens may vary.

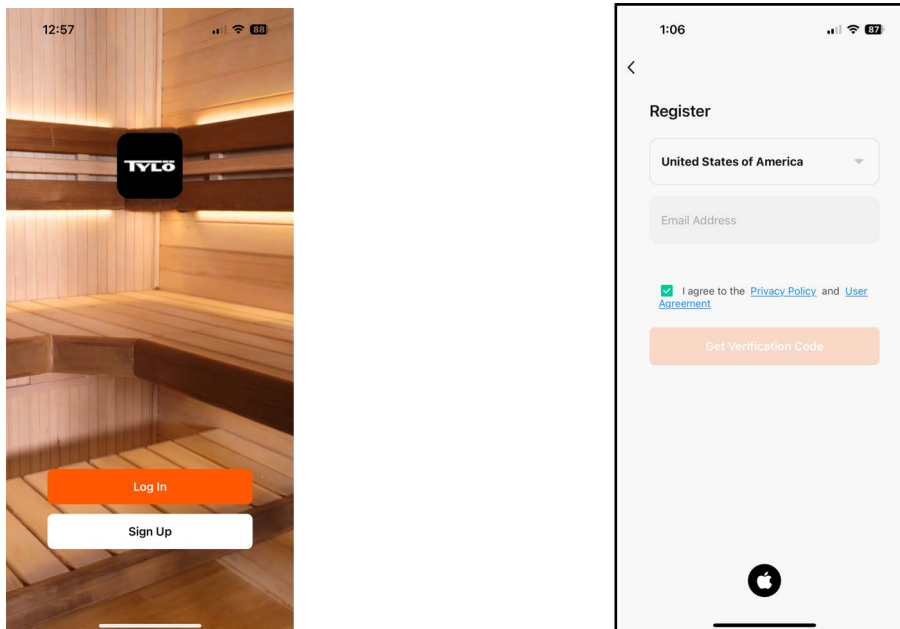


Figure 6. Example Registration Screens

3. After completing the registration process, use your newly created credentials to login to your *Tylö* account.

6.1. Network Pairing

1. Put the Aspire IR control into pairing mode by pressing and holding the Bluetooth button until an audible beep is heard. The letters “con” and a number appear on the display.
 - If applicable, from the local WiFi router, activate pairing mode. See the individual WiFi router manual for details on activating its WiFi pairing mode.

NOTE: Ensure the intended WiFi network is **configured for 2.4GHz** and provides a strong signal to where Aspire IR control is located.

The control enters pairing mode, searching for an available WiFi signal.

Once the control finds a pairing signal, digital hand-shaking begins.

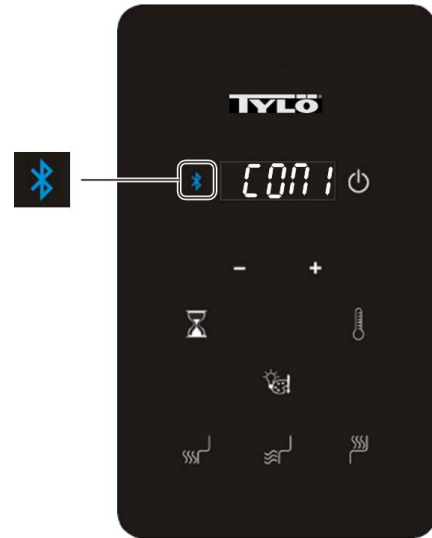


Figure 7. Network Pairing Display

SECTION 7. ADD to an APPLE DEVICE

Use the following instructions to add the Aspire IR control on an Apple device. For an Android device, see “SECTION 10. ADD to an ANDROID DEVICE” on page 15.

Before proceeding, ensure the Apple phone or tablet being paired on WiFi is **configured for 2.4GHz** and connected on the same WiFi network as the Aspire IR control.

- From the *Tylö Sauna App Home* screen on your Apple device, tap the **Add Device** button.
 - or Alternatively, tap the Plus symbol (+) located at the upper-right corner of the screen.
 - Tap the *Add Device* option.

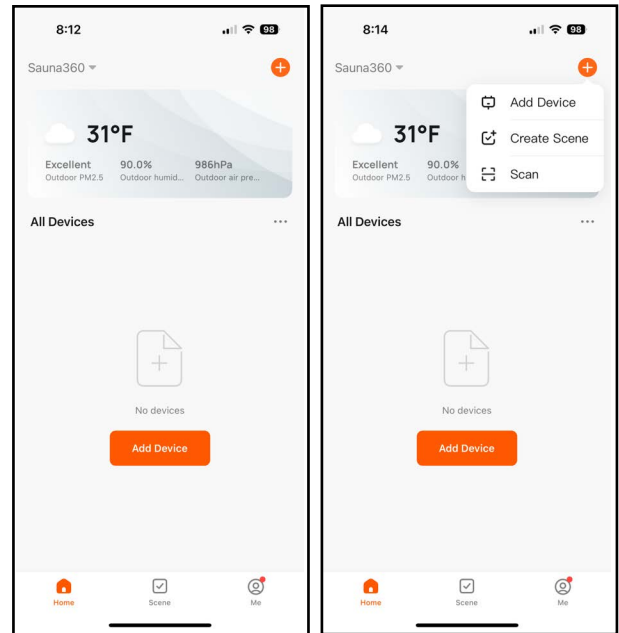


Figure 8. Tylö Sauna App Home Screen

The *Add Device* screen appears. The *Discovering devices* dialog displays an image of the sauna control.

- Tap the **Add** button.

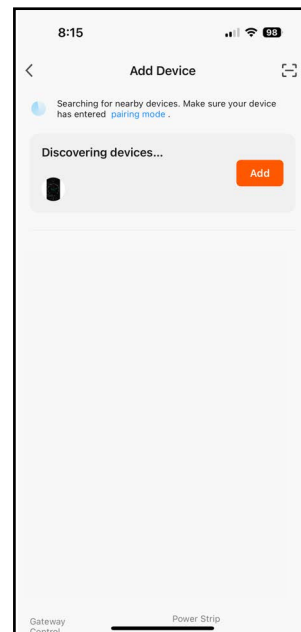


Figure 9. Add Device Screen

The *Enter Wi-Fi Information* screen appears.

3. From the list of WiFi networks detected, select the desired WiFi network.
4. Enter the WiFi password.
5. Tap the **Next** button.

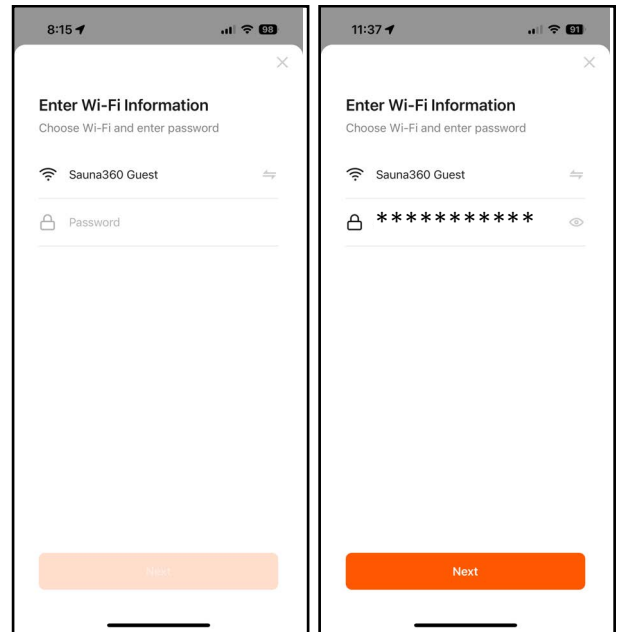


Figure 10. Enter Wi-Fi Information Screen

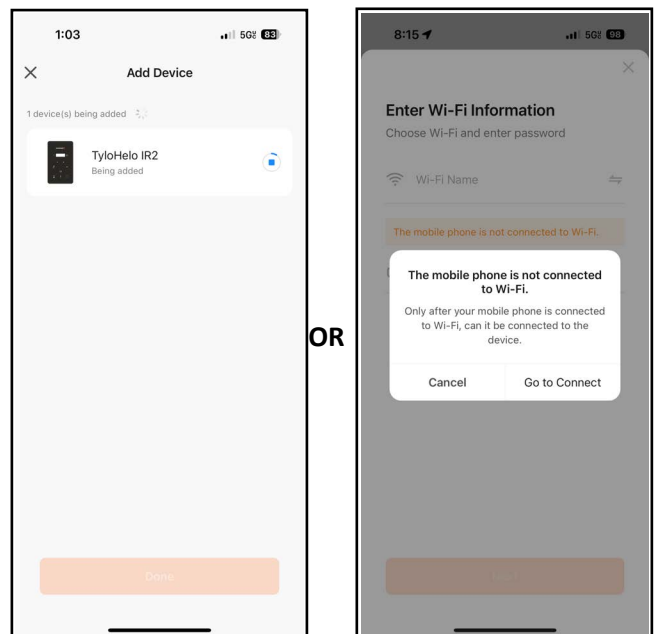
If the *Add Device* screen appears, the **Sauna Control** displays a *being added* status message along with a progress circle.

- Proceed to Step 6.

OR

If the mobile device (i.e. phone, tablet) is not connected on the intended WiFi network, an error message will appear.

- If this error occurs, tap the *Go to Connect* option. The display returns to the *Add Device* screen.
- Then turn on WiFi on your device, following the on-screen prompts as needed.



Adding the Sauna Control Message

WiFi Not Connected Error Message

Figure 11. Connection Messages

- When the message displays *1 device(s) added successfully* with a green circle and check mark on the image of the sauna control, tap the **Done** button.

The *Home* page is displayed, showing the sauna control available and ready to run.

OR

If the app is not able to connect with the control, the *Failed to add the device* message appears.

- Tap the explanation point (!) icon.
- A *Failed to add the device* dialog message with instructions appears.
- After reading the instructions, tap the *Confirm* option to close the message and return to the *Add Device* screen.
 - In the upper-left corner of the screen, tap the (X). The screen returns to the beginning of the pairing process.
- To operate the sauna from the paired device, proceed to “SECTION 8. APPLE WIRELESS OPERATION”.

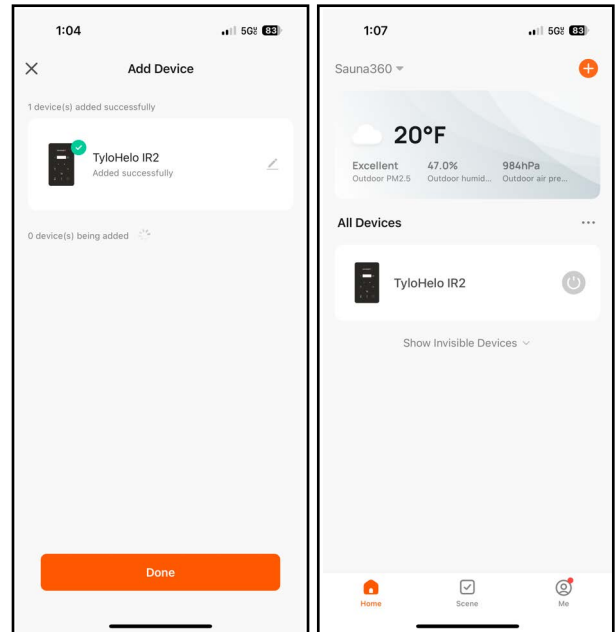


Figure 12. Device Added and Ready for Use

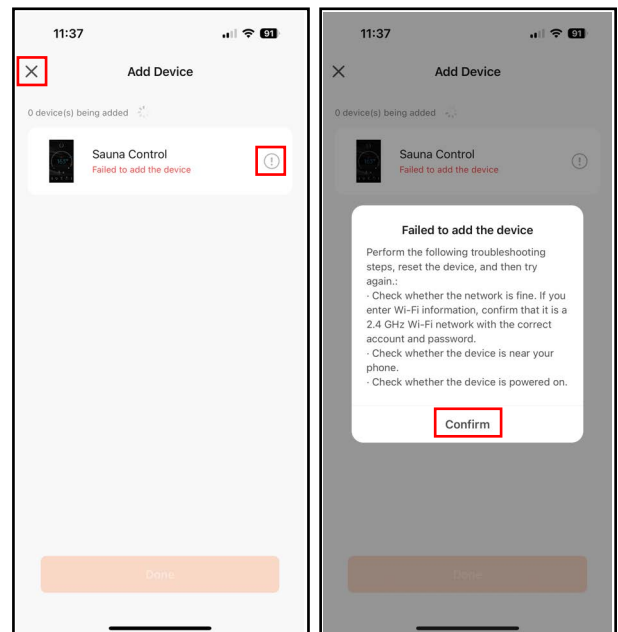


Figure 13. Failed to Add Device Messages

SECTION 8. APPLE WIRELESS OPERATION

After you have successfully paired to the Aspire IR control, you can enjoy wireless operation of the sauna from your phone or tablet.

Additional control functions are available from this screen, such as *Sauna Duration*, *Set Temp*, etc. Refer to “SECTION 5. OPERATING the CONTROL” for details.

The sauna can also be turned on and off from the *Home* screen.

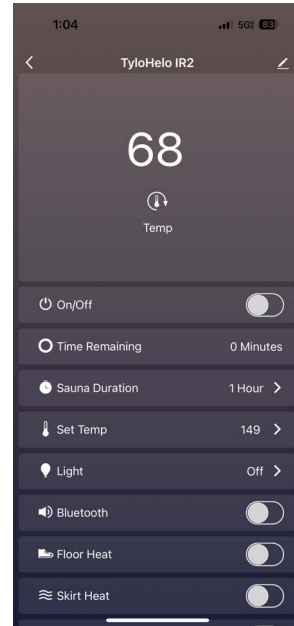


Figure 14. Tylo Mobile App

SECTION 9. INSTALLING the TYLÖ SAUNA APP on ANDROID DEVICE

Use the following instructions to install the *Tylö Sauna App* onto your Android smart phone or tablet. If installing on an Apple device, see “SECTION 6. INSTALLING the TYLÖ SAUNA APP on APPLE DEVICE” on page 7.

1. Download the *Tylö Sauna App* and install onto your smart phone or tablet by scanning the QR Code from the figure below, or by searching for “Tylo” in the appropriate app store from your smart device.



Figure 15. Android Store QR Code

When the *Tylö Sauna App* is opened for the first time, it prompts with options to *Log In* (to an *Existing Account*) or *Sign Up*.

2. Tap the *Sign Up* option and follow prompts to complete the registration requirements.
 - A valid email address is required to complete the registration process.
 - Agree to the *Privacy Policy* and *User Agreement*.

NOTE: Screens provided in this manual are for reference only. Actual screens may vary.

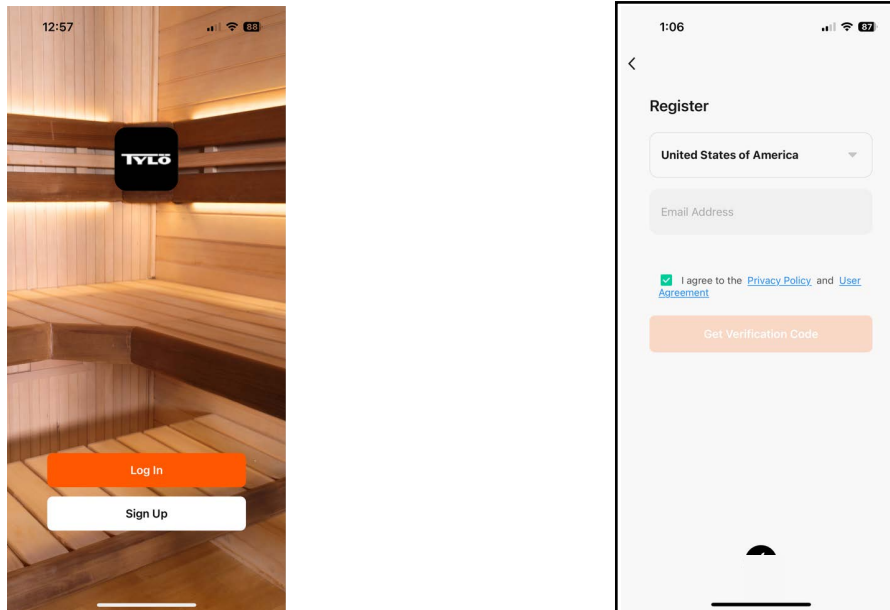


Figure 16. Example Registration Screens

3. After completing the registration process, use your newly created credentials to login to your *Tylö* account.

9.1. Network Pairing

1. Put the Aspire IR control into pairing mode by pressing and holding the Bluetooth button until an audible beep is heard. The letters “con” and a number appear on the display.
 - If applicable, from the local WiFi router, activate pairing mode. See the individual WiFi router manual for details on activating its WiFi pairing mode.

NOTE: Ensure the intended WiFi network is **configured for 2.4GHz** and provides a strong signal to where Aspire IR control is located.

The control enters pairing mode, searching for an available WiFi signal.

Once the control finds a pairing signal, digital hand-shaking begins.

The control will remain in pairing mode for five (5) minutes, or until it has been paired.

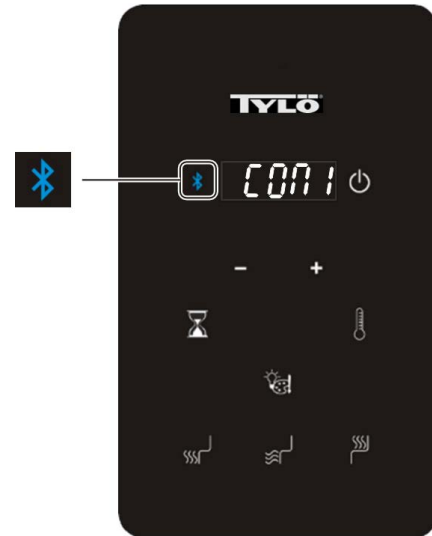


Figure 17. Network Pairing Display

SECTION 10. ADD to an ANDROID DEVICE

Use the following instructions to add the Aspire IR control on an Android device. For an Android device, see “SECTION 7. ADD to an APPLE DEVICE” on page 9.

Before proceeding, ensure the Android phone or tablet being paired on WiFi is **configured for 2.4GHz** and connected on the same WiFi network as the Aspire IR control.

1. From the *Tylö Sauna App Home* screen on your Android device, tap the **Add Device** button.
 - or Alternatively, tap the Plus symbol (+) located at the upper-right corner of the screen.
 - Tap the *Add Device* option.

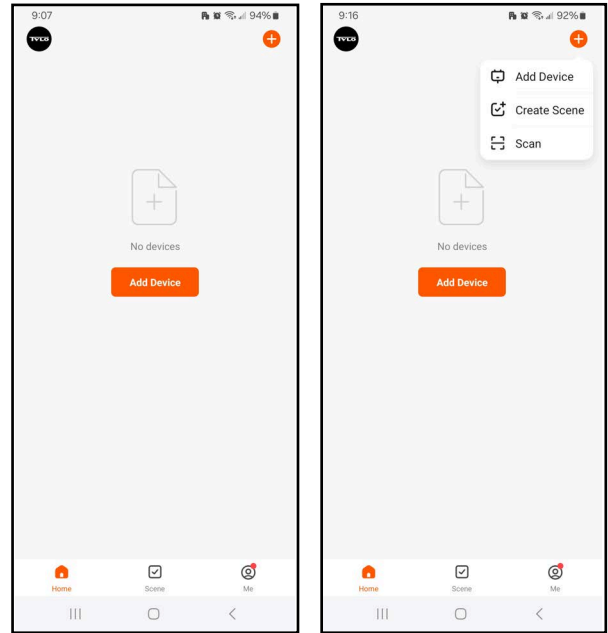


Figure 18. Tylö Sauna App Home Screen

The *Add Device* screen appears. The *Discovering devices* dialog displays an image of the sauna control.

2. Tap the **Add** button.

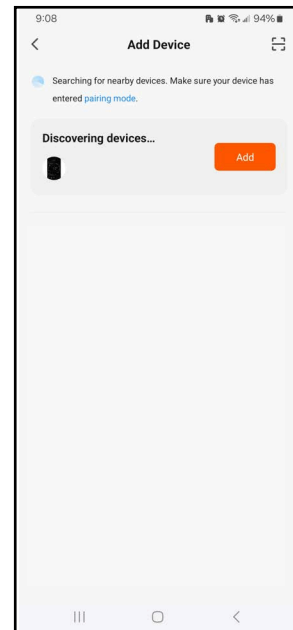


Figure 19. Add Device Screen

The *Enter Wi-Fi Information* screen appears.

3. From the list of WiFi networks detected, select the desired WiFi network.
4. Enter the WiFi password.
5. Tap the **Next** button.

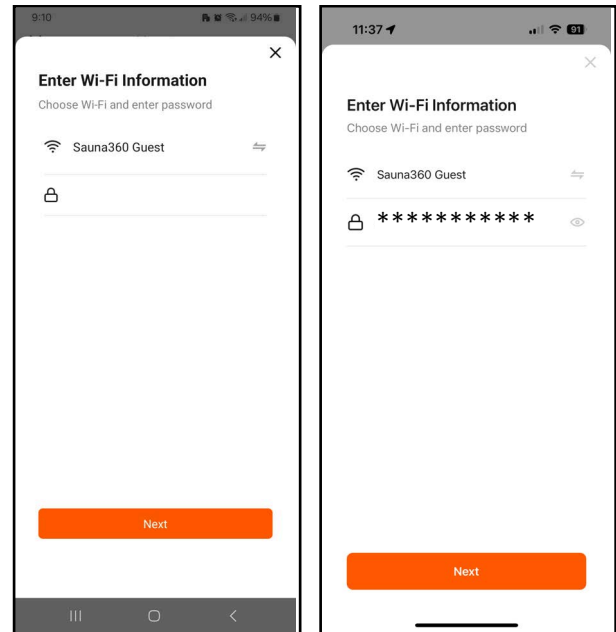


Figure 20. Enter Wi-Fi Information Screen

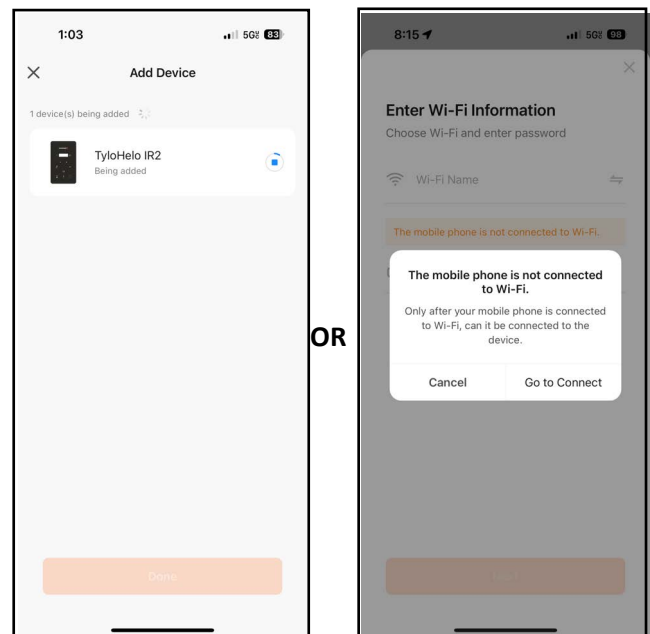
If the *Add Device* screen appears, the **Sauna Control** displays a *being added* status message along with a progress circle.

- Proceed to Step 6.

OR

If the mobile device (i.e. phone, tablet) is not connected on the intended WiFi network, an error message will appear.

- If this error occurs, tap the *Go to Connect* option. The display returns to the *Add Device* screen.
- Then turn on WiFi on your device, following the on-screen prompts as needed.



Adding the Sauna Control Message

WiFi Not Connected Error Message

Figure 21. Connection Messages

- When the message displays *1 device(s) added successfully* with a green circle and check mark on the image of the sauna control, tap the **Done** button.

The *Home* page is displayed, showing the sauna control available and ready to run.

OR

If the app is not able to connect with the control, the *Failed to add the device* message appears.

- Tap the explanation point (!) icon.
- A *failed to add the device* dialog message with instructions appears.
- After reading the instructions, tap the *Confirm* option to close the message and return to the *Add Device* screen.
- In the upper-left corner of the screen, tap the (X). The screen returns to the beginning of the pairing process.

- To operate the sauna from the paired device, proceed to “SECTION 11. ANDROID WIRELESS OPERATION”.

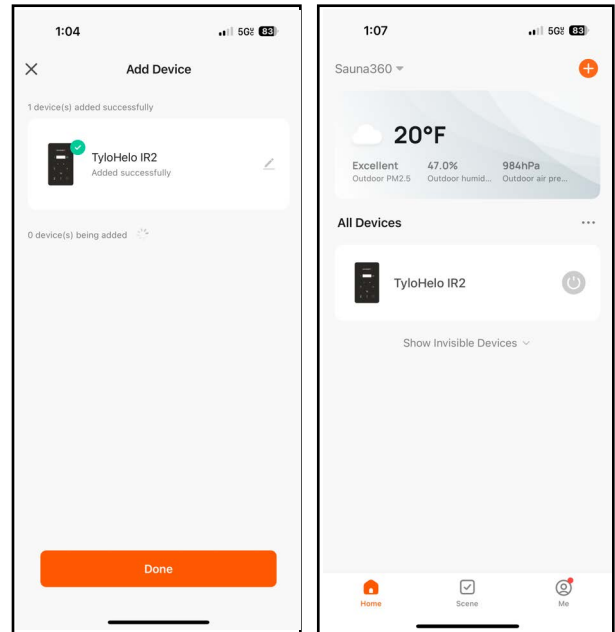


Figure 22. Device Added and Ready for Use

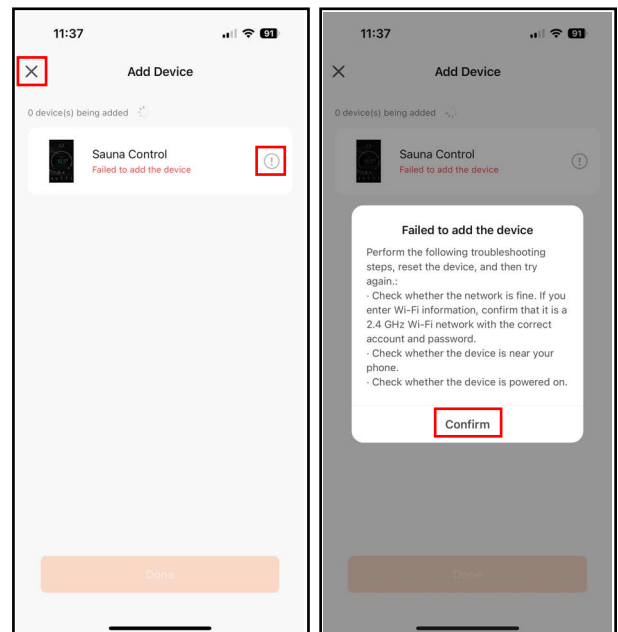


Figure 23. Failed to Add Device Messages

SECTION 11. ANDROID WIRELESS OPERATION

After you have successfully paired to the Aspire IR control, you can enjoy wireless operation of the sauna from your phone or tablet.

Additional control functions are available from this screen, such as *Sauna Duration*, *Set Temp*, etc. Refer to “SECTION 5. OPERATING the CONTROL” for details.

The sauna can also be turned on and off from the *Home* screen.

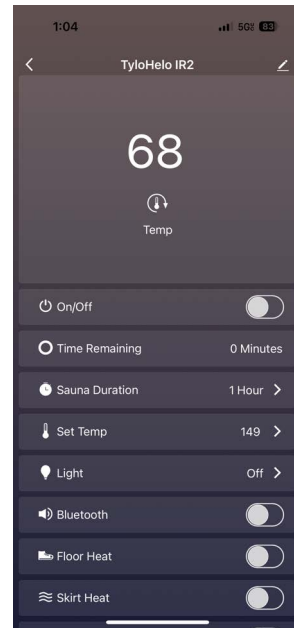


Figure 24. Tylo Mobile App

SECTION 12. MAINTENANCE

Inspect sauna room at the end of each day the room to ensure the control and system is off.

The sauna, like a bathroom, should be kept clean and odor free. Towels or mats should always be used on benches and floor as perspiration otherwise penetrates the soft wood. To clean and remove perspiration stains, use soap or detergent in warm water, best applied with a scrub brush. Badly soiled surfaces may require sanding. Sand paper wrapped around a wooden block works well.

Air out the sauna often by keeping the door and vents open when the sauna is not in use. Saunas that are in daily use should be washed down at least once a week to keep them clean and the air fresh. Duck board should be removed from the sauna, the sauna floor mopped and dried in a conventional manner, and the duck board thoroughly scrubbed and dried before returning to the sauna room. The sauna heater should be wiped down occasionally with a damp cloth to remove lint and dust. The rocks should be removed once a year for cleaning and small or crumbled rocks replaced.

Benches and supporting structure must be inspected annually for potential deterioration due to age, dry rot or abuse. Any boards with signs of deteriorations should be replaced immediately to avoid possible injury.

SECTION 13. TROUBLESHOOTING

If control displays “**Sn**” it means no sensor is connected. Refer to Section 5 for sensor installation information.

If control displays “**HL**” it means the high limit is open. Refer to Section 9 for high limit information.

System won't start to heat, ensure the system is not in the delay mode. If “**dLAY**” is flashing in the display window, the system is in the delay mode.

If control displays “**JP**” it means the jumper is open on the main board in the CB Box. Verify jumper is installed in CN6 location on the main board. If it is open, close the two pins.

If control acts erratically or buttons turn on and off by itself during startup. Turn power off at the circuit breaker, place the glass on the control and turn power back on the system. The control will automatically reset the sensitivity of the capacitive switches.

Please contact your local dealer or outlet you purchased your product for questions and support. Prior to calling, please have the Model and Type number available.

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SECTION 14. CONTROL CUT-OUT PATTERN

The recessed mounting box allows the control to mount with its surface almost flush with the wall. Print this page to "Actual" size or use the dimensions shown below. Cut an opening in the paper along the dotted line. Test-fit the mounting box in the opening.

Scribe the cut-out on the intended location of the sauna. Cut an opening in the wall. Test-fit the mounting box. Route the control cable to the opening and through the hole in the back of the mounting box. Inside the box, orient the arrow UP. Press the box into the opening. Turn the screws, this rotates the mounting tabs, pulling the box into the opening.

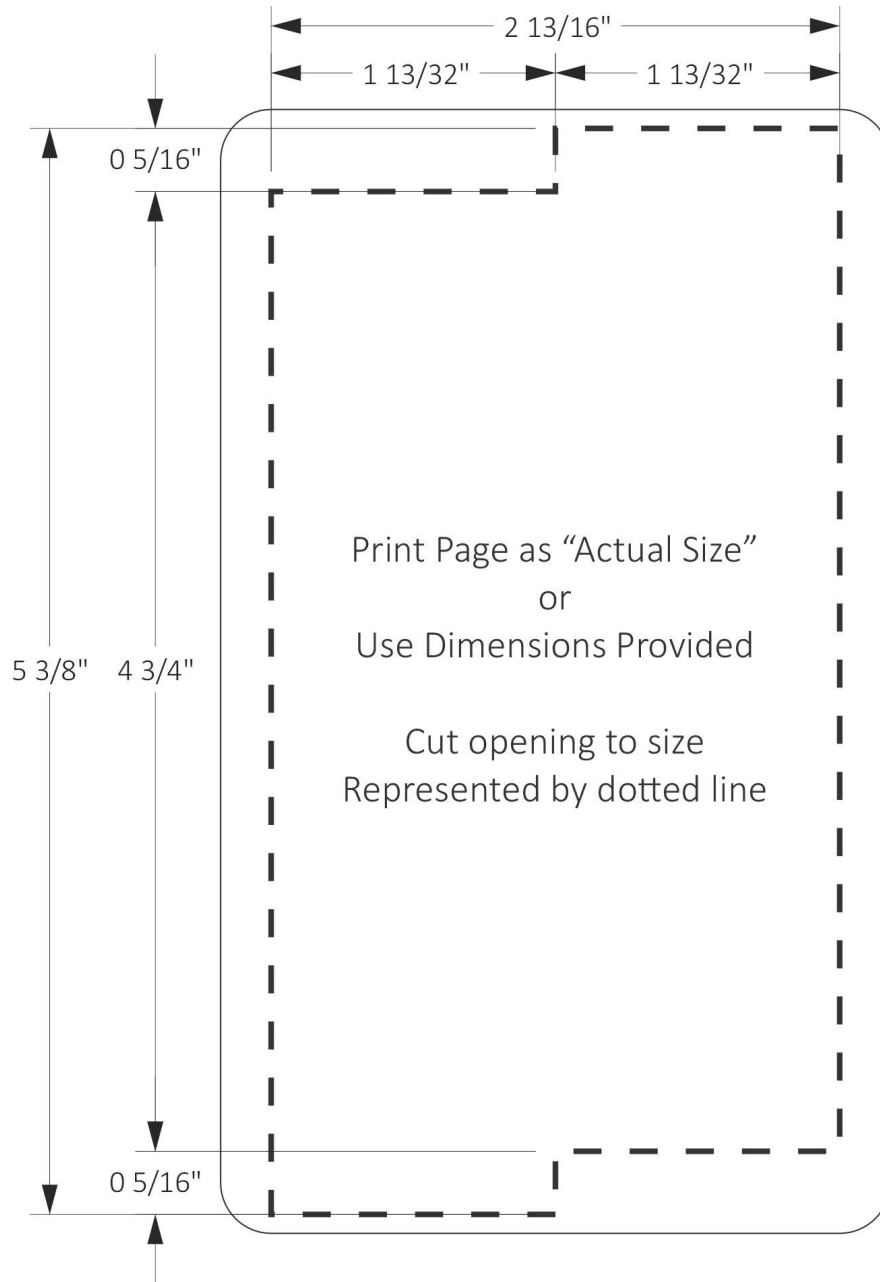


Figure 25. Mounting Box Cut-Out Pattern

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SAUNA360
HELP PEOPLE LIVE BETTER

