

Installation Instructions
Please Read Before Installing

HVAC Controller
LR-HVAC-1
24 V ~ 250 mA
Typical Power Consumption*: 3 W

Important Notes

Codes: Install in accordance with all local and national electrical codes.
Environment: Ambient operating temperature: 32 °F to 160 °F (0 °C to 71 °C), 0% to 90% humidity, non-condensing. Indoor use only.
NOTICE: To avoid possible compressor damage, do not run air conditioner if the outside temperature drops below 50 °F (10 °C).
Cleaning: To clean, wipe with a clean damp cloth. DO NOT use any chemical cleaning solutions.
RF Device Placement: The HVAC Controller must be within 30 ft (9 m) of an RF signal repeater.

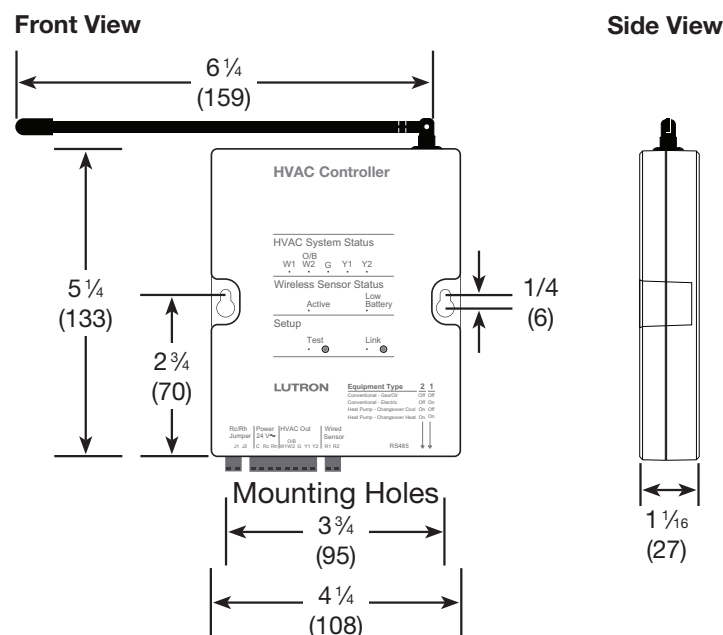
HVAC Controller Installation

NOTICE: HVAC Controller should be installed by a climate control specialist to avoid damage to the equipment.

WARNING: Shock Hazard. To avoid the risk of electric shock, locate and remove fuse or lock circuit breaker in the OFF position before proceeding. Wiring with power ON could result in serious injury or death.

- Turn power OFF at fusebox or circuit breaker.
- Find a suitable location for the HVAC Controller near an HVAC system and within 30 ft (9 m) of a repeater, this will allow system communication.
- Mount vertically or horizontally, using two #6 (M3) screws (included). When mounting, allow 7 in (177.8 mm) clearance for the antenna and ensure convenient access to the contact closures and front buttons. In order to achieve proper RF performance, do not mount unit in a metal enclosure.

Dimensions Measurements shown as: in (mm).

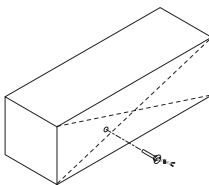


Wired Sensor Installation**

A Wired Sensor **MUST** be installed or the system will not operate. The Wired Sensor will serve as a backup temperature sensor if no RF temperature sensor is installed or if the RF temperature sensors are not communicating (out of range, dead battery, etc).

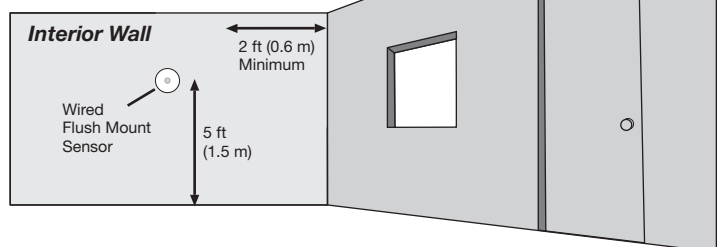
Wired Return Air Duct Sensor

- Determine the location to install the return air duct sensor and mark the duct.** The sensor can be mounted anywhere in the return duct [3 ft to 6 ft (0.9 m to 1.8 m) before the mixing section is recommended].
- Drill a 3/8 in (10 mm) hole in the duct at the marked location and insert the sensor into the airstream.**
- Secure the sensor to the return air duct using the #6 (M3) x 3/8 in (10 mm) sheet metal screws.**
- Connect sensor leads** to 18 AWG to 22 AWG (0.75 mm² to 0.34 mm²) twisted, shielded wire with crimp fittings or solder wires together and insulate. A good secure connection is required to prevent temperature reading errors.
- Wire the sensor to the R1 and R2 terminals of the HVAC controller.** Connect the drain wire of the shield to the Common (C) terminal of the HVAC controller.
NOTE: R1 and R2 terminals are NOT polarity sensitive.

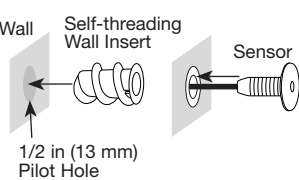


Wired Flush Mount Sensor

- The Wired Flush Mount Sensor should be installed in a location that best represents the temperature of the room or area that it is controlling.
- Determine the Wired Flush Mount Sensor Placement** using the following recommendations and diagram.
 - If using one Wired Flush Mount Sensor, place near an HVAC return grill, 5 ft (1.52 m) up from the floor.
 - DO NOT place the Wired Flush Mount Sensor** on or within 2 ft (0.6 m) of an exterior wall
 - DO NOT place the Wired Flush Mount Sensor** in corners or behind doors
 - DO NOT place the Wired Flush Mount Sensor** in direct sunlight
 - DO NOT place the Wired Flush Mount Sensor** within 4 ft (1.2 m) of HVAC supply vents
 - DO NOT place the Wired Flush Mount Sensor** within 4 ft (1.2 m) of light bulbs or any heat source
 - DO NOT place the Wired Flush Mount Sensor** within 6 in (15 cm) of other RF devices



- Determine the location to install the wired flush-mount sensor** (see "Determine the Wired Flush Mount Sensor Placement" above) and mark the wall.
- Drill a 1/2 in (13 mm) hole in the wall** at the marked location, separate sensor from self-threading wall insert and insert self-threading wall insert into pilot hole.
- Connect sensor leads** to 18 AWG to 22 AWG (0.75 mm² to 0.34 mm²) twisted, shielded wire with crimp fittings or solder wires together and insulate. A good secure connection is required to prevent temperature reading errors.
- Push sensor** into self-threading wall insert.
- Wire the sensor to the R1 and R2 terminals of the HVAC controller.** Connect the drain wire of the shield to the Common (C) terminal of the HVAC controller.
NOTE: R1 and R2 terminals are NOT polarity sensitive.



HVAC Controller Diagnostic Mode

NOTICE: To avoid possible compressor damage, do not run air conditioner if the outside temperature drops below 50 °F (10 °C).
The diagnostic mode is used to ensure the relays on the HVAC controller are functioning and wired properly to your HVAC system.

Follow the steps below to test your wiring using diagnostic mode. There are three Diagnostic Mode tests. The test that is cycled is determined by the 2 DIP switches on the HVAC Controller. The DIP switches define whether the HVAC system is used with a Conventional system or a Heat Pump system.

1. Enter HVAC Diagnostic Mode

Press and hold "Test" button for 10 seconds until "Test" LED flashes rapidly to enter Diagnostic Mode. "Test" LED will flash slowly while in Diagnostic Mode.

2. Cycle through the test steps

The DIP switch settings determine which test cycle will be run. Tap the "Test" button to advance through the diagnostic steps. Use the tables below to determine the test sequence that will be run on your system. Each tap moves the HVAC controller to the next step and will turn on and off different relays and corresponding LEDs. At each step, the thermostat wiring can be verified.
NOTE: There is a 20 second minimum delay between each step.

Table 1 Conventional System Diagnostic Test Cycle (DIP Switches: S1 = On or Off, S2 = Off)

Step	Relays	LEDs
Step 1	All Off	All Off
Step 2	Heat Stage 1 and Fan On	W1 and G On
Step 3	Heat Stage 1 & 2 and Fan On	W1, W2 (O/B), and G On
Step 4	All Off	All Off
Step 5	Cool Stage 1 and Fan On	G and Y1 On
Step 6	Cool Stage 1 & 2 and Fan	On G, Y1, and Y2 On
Step 7	All Off	All Off
Step 8	Fan On	G On

Table 2 Heat Pump System Diagnostic Test Cycle (DIP Switch S1 = Off, S2=On) Changeover Valve Powered for COOL

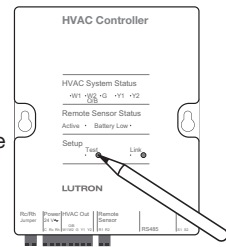
Step	Relays	LEDs
Step 1	All Off	All Off
Step 2	Heat Stage 1 and Fan On	G and Y1 On
Step 3	Heat Stage 1 & 2 and Fan On	G, Y1, and Y2 On
Step 4	Auxiliary Heat On	W1 and G On
Step 5	All Off	All Off
Step 6	Cool Stage 1 and Fan On	W2 (O/B), G, and Y1 On
Step 7	Cool Stage 1 & 2 and Fan On	W2 (O/B), G, Y1, and Y2 On
Step 8	All Off	All Off
Step 9	Fan On	G On

Table 3 Heat Pump System Diagnostic Test Cycle (DIP Switch S1 = On, S2=On) Changeover Valve Powered for HEAT

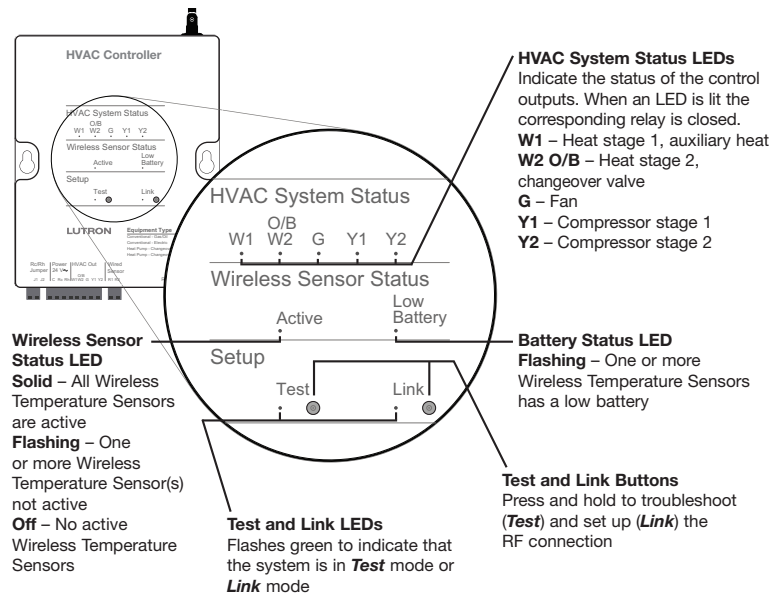
Step	Relays	LEDs
Step 1	All Off	All Off
Step 2	Heat Stage 1 and Fan On	W2 (O/B), G, and Y1 On
Step 3	Heat Stage 1 & 2 and Fan On	W2 (O/B), G, Y1, and Y2 On
Step 4	Auxiliary Heat On	W1 and G On
Step 5	All Off	All Off
Step 6	Cool Stage 1 and Fan On	G and Y1 On
Step 7	Cool Stage 1 & 2 and Fan On	G, Y1, and Y2 On
Step 8	All Off	All Off
Step 9	Fan On	G On

3. Exit HVAC Diagnostic Mode

At any time, press and hold "Test" button for 10 seconds to exit Diagnostic Mode. If no button is pressed for 3 minutes, the HVAC Controller will exit Diagnostic Mode.



HVAC Controller



Relay Contact Ratings

Table 4 Relay Contact Ratings

Voltage	Resistive Load	Inductive Load
Up to 24 V ~	1 A	0.1 A

HVAC Out
Terminal connections for connecting to the HVAC system

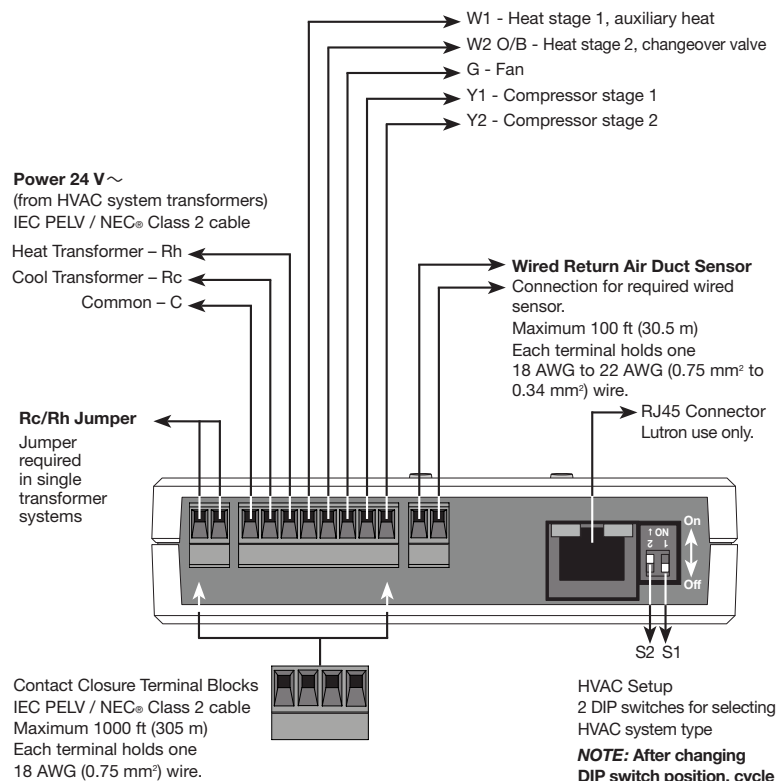


Table 5 System Configuration DIP Switch Settings

System Configuration	S2	S1	Fan Controlled by
Conventional – Gas/Oil (Default)	Off	Off	Air Handler
Conventional – Electric	Off	On	HVAC Controller
Heat Pump – Changeover Cool	On	Off	HVAC Controller
Heat Pump – Changeover Heat	On	On	HVAC Controller

Programming by a Lutron® Factory Trained Installer

For full functionality, the HVAC Controller must be programmed to a RadioRA® 2 Main Repeater (RR-MAIN-REP) or HomeWorks® QS Processor (HQP6-2-120) and PC software must be used by a Lutron® factory-trained installer. For questions on how to become a qualified installer, please contact your local Lutron® representative.

RadioRA® 2 Temporary Programming

Since the HVAC system may need to function before a Lutron® factory-trained installer is available for programming, temporary programming may be used to provide climate control. When using the temporary programming method, the HVAC controller (LR-HVAC) will only function when programmed to a system with a seeTemp™ Wall Display (LRD-WST).

To complete the temporary programming (steps below), the following are required: RadioRA® 2 Main Repeater within 30 ft (9 m) of the HVAC controller, seeTemp™ Wall Display(s), and Wireless Temperature sensor(s) (LRF2-TWRB). HomeWorks® QS does not support a Temporary Programming Method.

- Enter Add Mode:** Press and hold the "Add" button on Main Repeater for 3 seconds until green "Add" LED begins to rapid-flash (ten times per second) and repeater beeps. Wait 10 seconds.
- Add the devices to the Main Repeater:**
 - For the HVAC controller, press and hold the "Link" button for 3 seconds until all LEDs flash (once per second).
 - For the seeTemp™ Wall Display, press and hold the "eco" button for 3 seconds until the top, middle and bottom LEDs flash (once per second).
 - For the Wireless Temperature Sensor, press and hold the "Link" button for 6 seconds until the LED flashes (once per second).
- Exit Add Mode:** Press and hold the "Add" button on any Repeater for 3 seconds until "Add" LED begins to rapid-flash. After LED turns off (can take up to 30–60 seconds), system has exited Add Mode.
- Enter Link Mode on the HVAC Controller:** Press and hold the "Link" button on HVAC Controller for 6 seconds until green "Link" LED begins to rapid-flash (ten times per second). Wait 10 seconds.
- Link the devices to the HVAC Controller:**
 - For the seeTemp™ Wall Display, press and hold the "eco" button for 6 seconds until the top, middle and bottom LEDs rapid-flash.
 - For the Wireless Temperature Sensor, press and hold the "Link" button for 6 seconds until the LED flashes (once per second).
- Exit Link Mode on the HVAC Controller:** Press and hold the "Link" button on the HVAC Controller for 6 seconds until "Link" LED begins to rapid-flash. After LED turns off (can take from 15 to 30 seconds), HVAC Controller has exited Link Mode.
- Test the system:**
 - Set the seeTemp™ Wall Display to Heat or Cool mode.
 - Tap the "Test" button on the Wireless Temperature Sensor. The Temperature will update on the seeTemp™ Wall Display.
 - As the temperature changes, the HVAC controller will control the HVAC equipment when required.

NOTE: when adding a seeTemp™ Wall Display or HVAC Controller to the system after using temporary programming, you must first return the seeTemp™ Wall Display or HVAC Controller to Factory Settings.

Returning an HVAC Controller to Factory Settings

Note: Returning the HVAC Controller to factory settings will erase all system programming from the HVAC Controller and will require the HVAC Controller to be reprogrammed into a system.

- Triple tap and hold either button on an HVAC Controller. DO NOT release the button after the third tap.
- Keep the button pressed on the third tap until the LED(s) start to flash slowly (approximately 3 seconds).
- Release the button and immediately triple tap it again. The LEDs will flash quickly. When the LEDs stop flashing, the HVAC Controller has been returned to factory settings.

Warranty: For warranty information, please see the Warranty enclosed with the product, or visit www.lutron.com/resiinfo

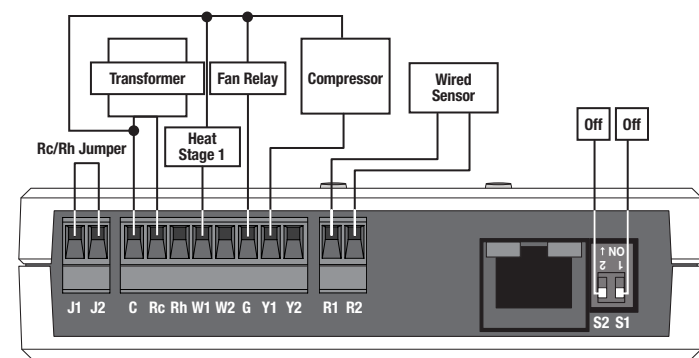
* Typical Power Consumption test conditions: two LEDs on.

Wiring Your System

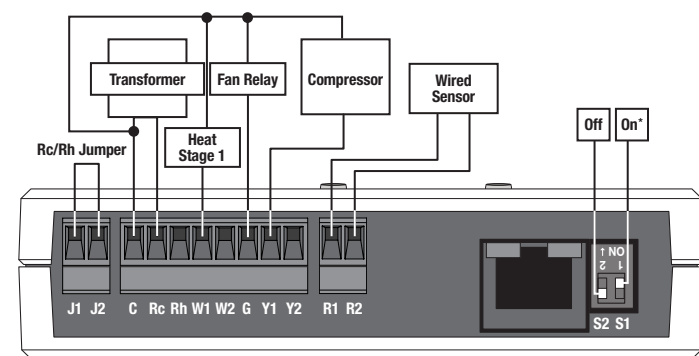
NOTE: R1 and R2 terminals are not polarity sensitive.

Conventional System

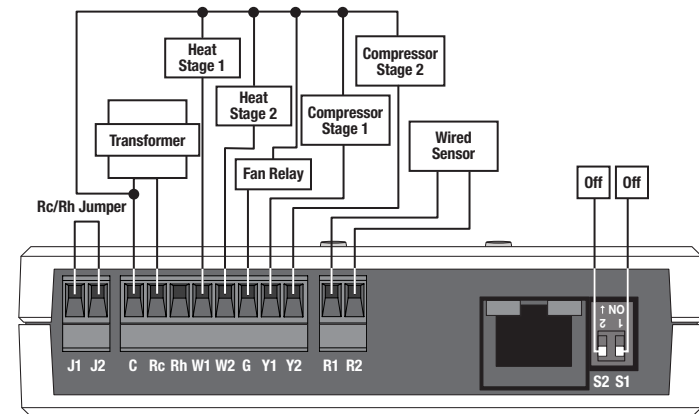
Conventional Gas/Oil Heat System • 1 Stage Heat / 1 Stage Cool



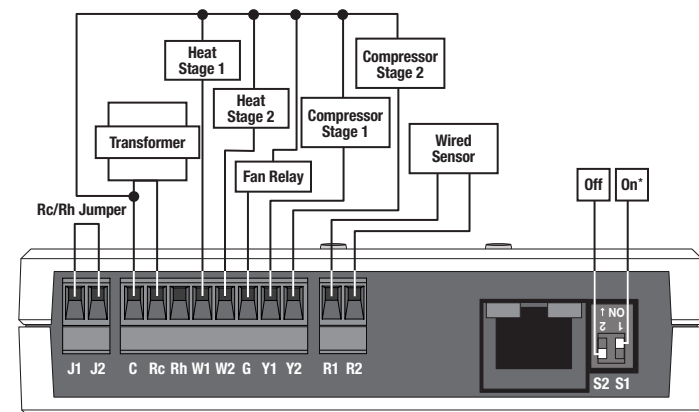
Conventional Electric Heat System • 1 Stage Heat / 1 Stage Cool



Conventional Gas/Oil Heat System • 2 Stage Heat / 2 Stage Cool

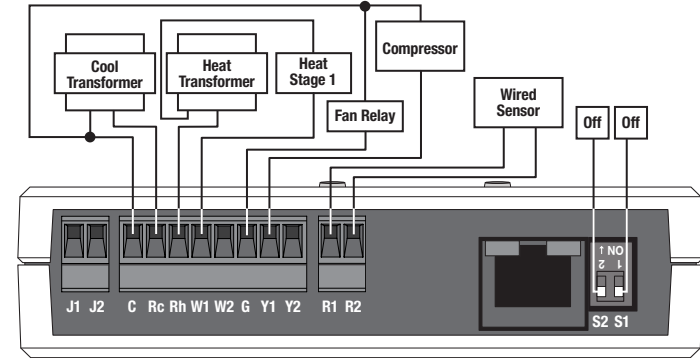


Conventional Electric Heat System • 2 Stage Heat / 2 Stage Cool

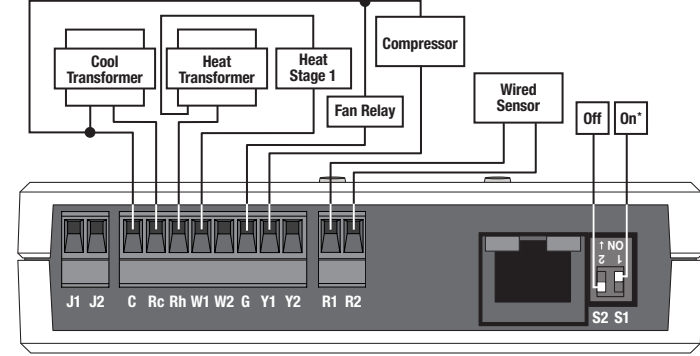


Conventional System (continued)

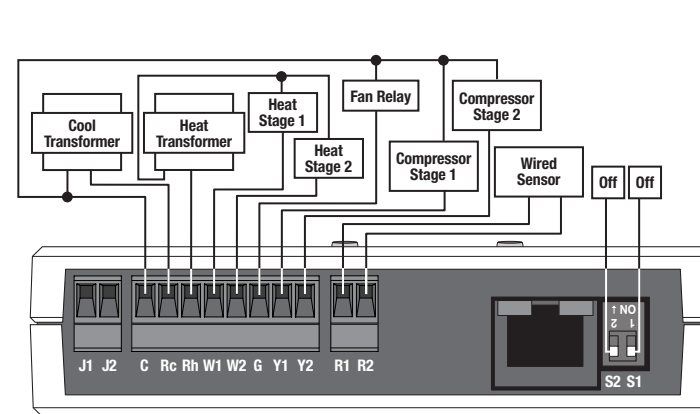
Conventional Gas/Oil Heat System • 1 Stage Heat / 1 Stage Cool, 2 Transformers



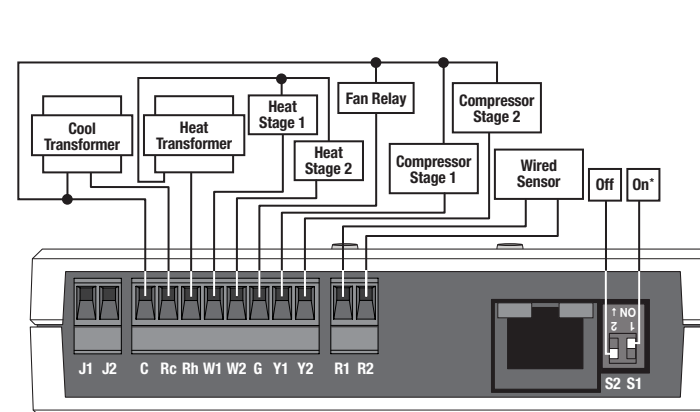
Conventional Electric Heat System • 1 Stage Heat / 1 Stage Cool, 2 Transformers



Conventional Gas/Oil Heat System • 2 Stage Heat / 2 Stage Cool, 2 Transformers

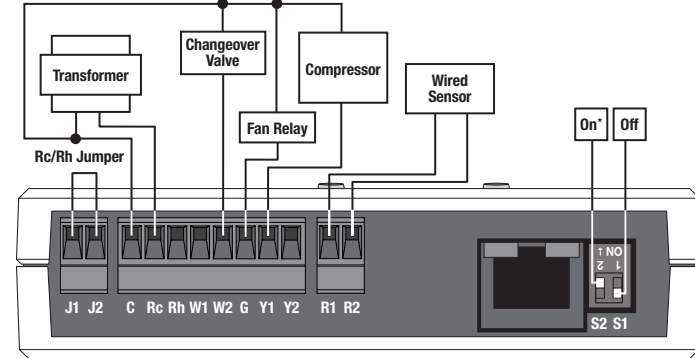


Conventional Electric Heat System • 2 Stage Heat / 2 Stage Cool, 2 Transformers

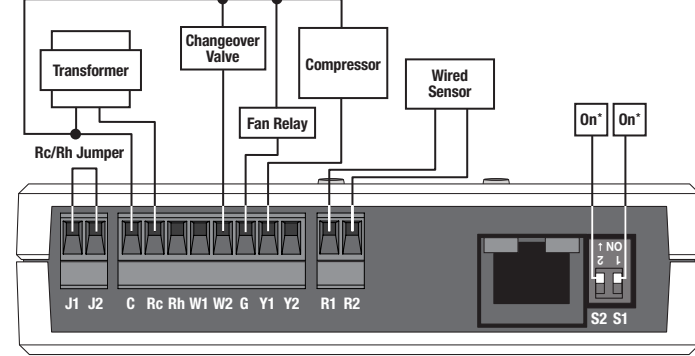


Heat Pump System

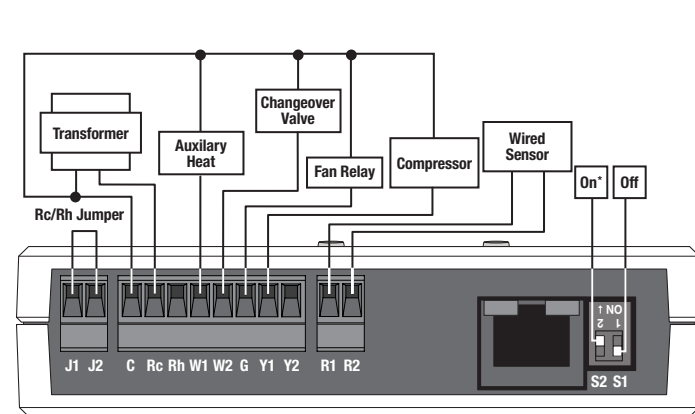
Single Stage Heat Pump (Changeover = Cool)



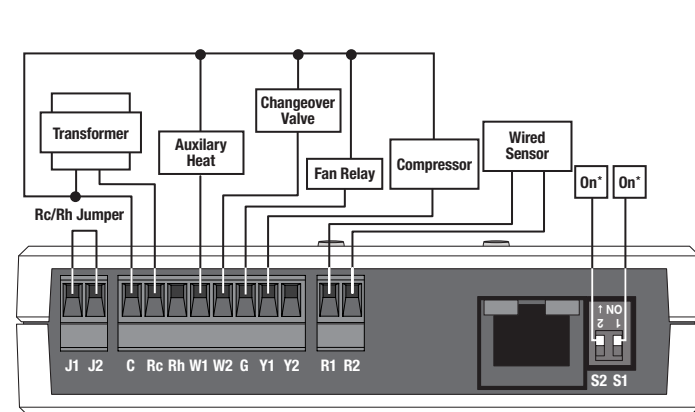
Single Stage Heat Pump (Changeover = Heat)



Single Stage Heat Pump w/ Auxiliary Heat (Changeover = Cool)

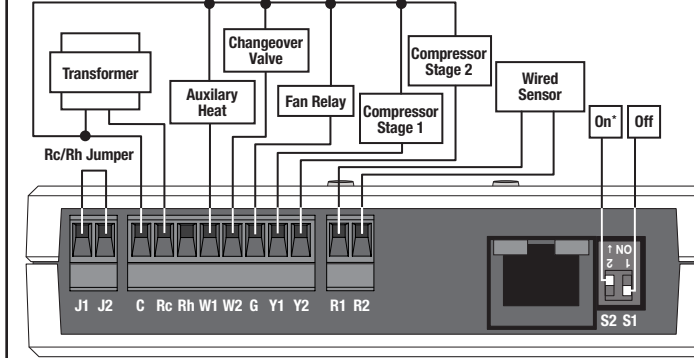


Single Stage Heat Pump w/ Auxiliary Heat (Changeover = Heat)

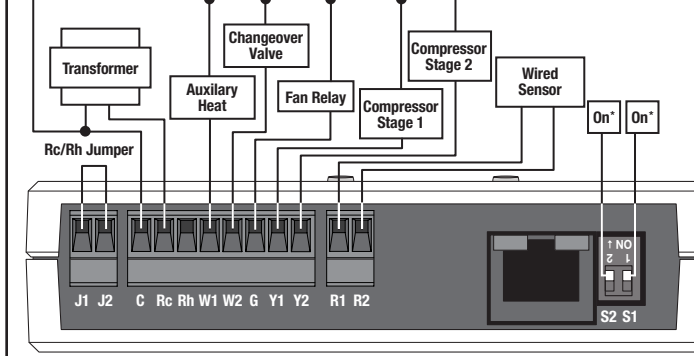


Heat Pump System (continued)

2 Stage Heat Pump w/ Auxiliary Heat (Changeover = Cool)



2 Stage Heat Pump w/ Auxiliary Heat (Changeover = Heat)



Troubleshooting Guide

Symptom	Probable Cause and Action
Temperature feels too warm/cool.	HVAC equipment is malfunctioning or doesn't have enough capacity and can't reach setpoint. • Contact your HVAC installer. Sensor is not placed near HVAC returns. • Move sensor. Wireless Temperature Sensor battery is dead. • Replace battery.
HVAC controller not responding to temperature changes or seeTemp™ Wall Display.	The HVAC controller is not assigned to a Wireless Temperature Sensor or seeTemp™ Wall Display. • Follow the steps in Programming by a Lutron® Factory Trained Installer. There is no power to the device. • Ensure that the device is powered. Temperature may take up to 20 minutes to change in the space. HVAC equipment is malfunctioning or doesn't have enough power and can't reach setpoint. • Contact your HVAC installer. The Wired Sensor is not installed. • Install the Wired Sensor.
Wireless Temperature Sensor LED doesn't turn on when Link or Test buttons are pressed.	Wireless Temperature Sensor battery is dead. • Replace battery.
LEDs on a seeTemp™ Wall Display don't turn on when the buttons on it are pressed.	Power not present at seeTemp™ Wall Display. • Circuit breaker OFF. Turn ON breaker. • Ensure that the seeTemp™ Wall Display is properly wired.
6 LEDs on the seeTemp™ Wall Display flash when any button is pressed.	The seeTemp™ Wall Display is in the Factory Settings mode and has not been configured to work in a system. • Follow the steps in Programming by a Lutron® Factory Trained Installer.
Room Temperature LED on seeTemp™ Wall Display flashes rapidly.	Low battery on Wireless Temperature Sensor. • Replace battery in Wireless Temperature Sensor.
Set temperature LED on seeTemp™ Wall Display flashes rapidly.	The HVAC Controller is communicating with the Wired Sensor and cannot communicate with one or more of the Wireless Temperature Sensors or the Wired Sensor is not connected. • Move Wireless Temperature Sensor closer to a repeater. • Make sure that the Wired Sensor is connected.
Room LED on seeTemp™ Wall Display scrolls up and down.	No Wireless Temperature Sensor and no Wired Sensor are present. • Replace battery in Wireless Temperature Sensor. • Add a Wireless Temperature Sensor. • Add a Wired Sensor.
Room and Set LEDs on seeTemp™ Wall Display scroll up and down when button is pressed.	Communication error. • Move a repeater closer to a seeTemp™ Wall Display.
Room or Set temperature on seeTemp™ Wall Display top LED flashes slowly.	The room or set temperature is above maximum displayed temperature.
Room or Set temperature bottom LED on seeTemp™ Wall Display flashes slowly.	The room or set temperature is below minimum displayed temperature.
Room temperature is constantly fluctuating.	If using a wired sensor as the primary source of temperature control, make sure the wired sensor placement is correct and you have followed the wiring instructions.
LEDs on the HVAC Controller do not turn on when it is powered up.	Power not present. • Circuit breaker is OFF or tripped. Reset or turn on circuit breaker. • Ensure that the HVAC Controller is properly wired.
HVAC Controller's "Wireless Sensor Status" Active LED is flashing.	At least one Wireless Temperature Sensor is not communicating.

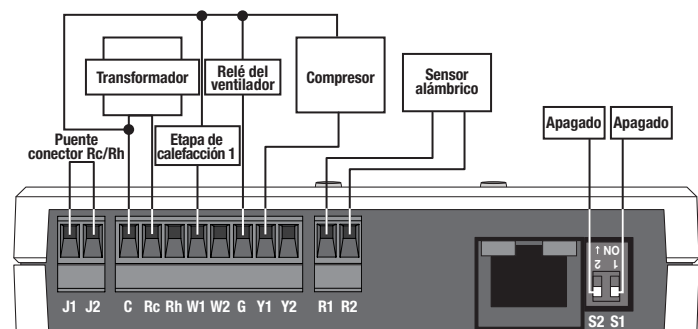
*NOTE: After changing DIP switch position, cycle power to the unit.

Cableado de su sistema

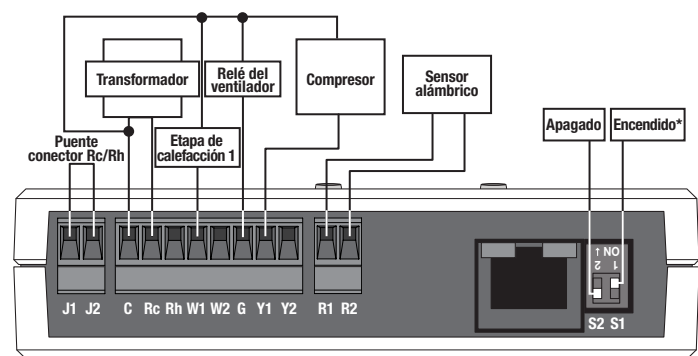
NOTA: Las terminales R1 y R2 no son sensibles a la polaridad.

Sistema convencional

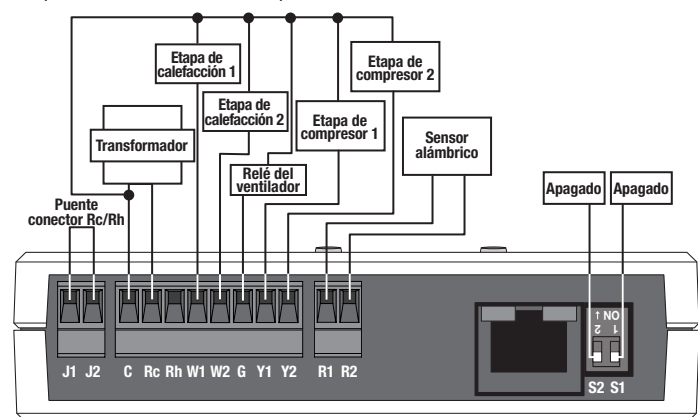
Sistema de calefacción convencional de gas/aceite • Calefacción de 1 etapa/Enfriamiento de 1 etapa



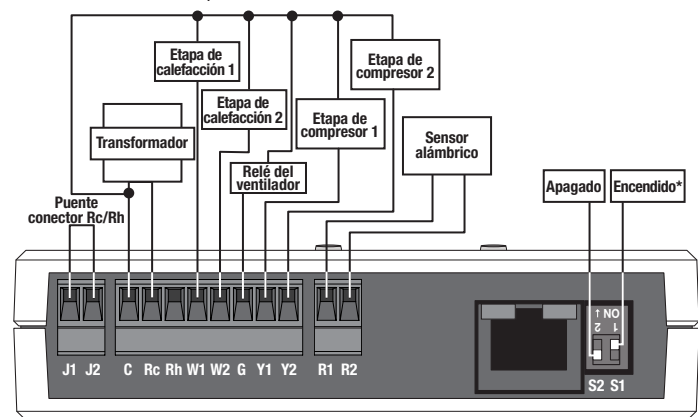
Sistema de calefacción convencional eléctrica • Calefacción de 1 etapa/Enfriamiento de 1 etapa



Sistema de calefacción convencional de gas/aceite • Calefacción de 2 etapas/Enfriamiento de 2 etapas

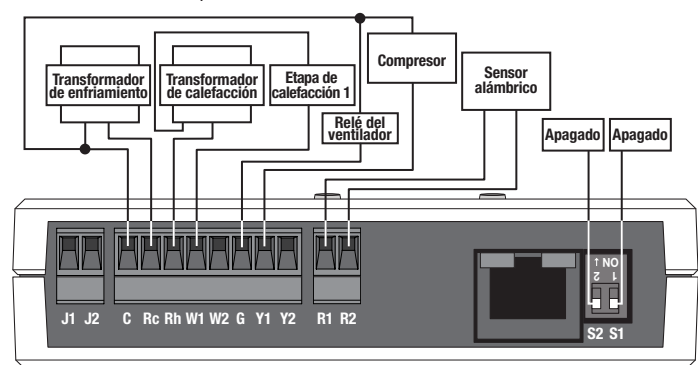


Sistema de calefacción convencional eléctrica • Calefacción de 2 etapas/Enfriamiento de 2 etapas

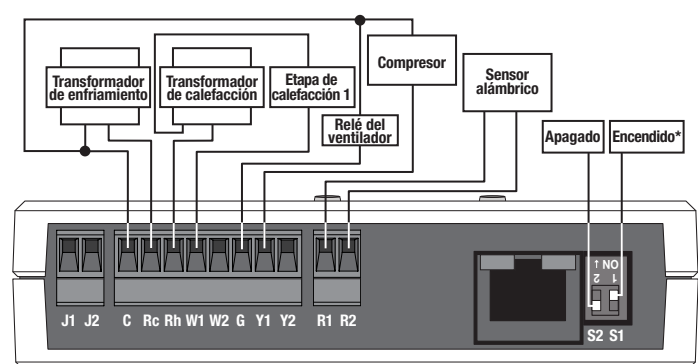


Sistema convencional (continuación)

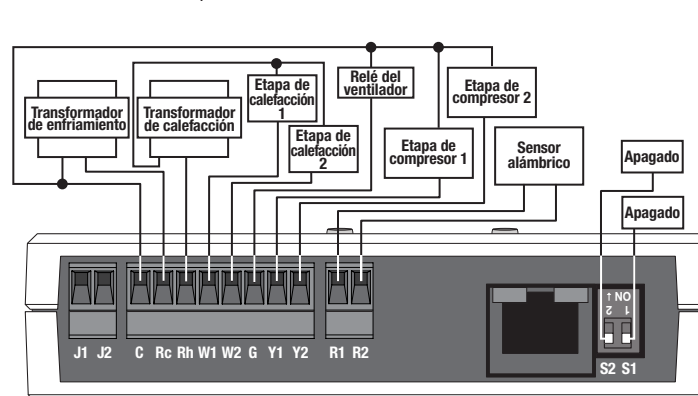
Sistema de calefacción convencional de gas/aceite • Calefacción de 1 etapa/Enfriamiento de 1 etapa, 2 transformadores



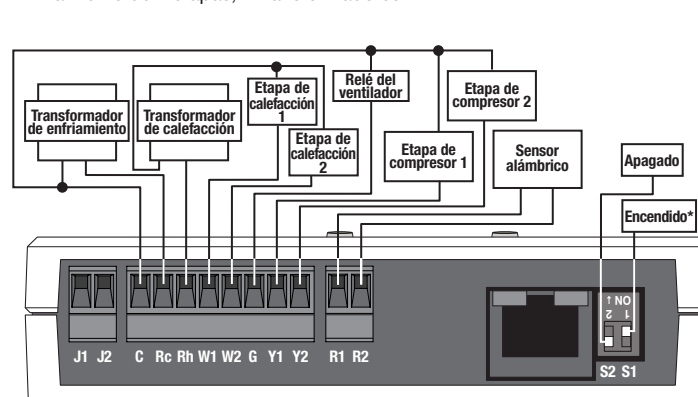
Sistema de calefacción convencional eléctrica • Calefacción de 1 etapa/Enfriamiento de 1 etapa, 2 transformadores



Sistema de calefacción convencional de gas/aceite • Calefacción de 2 etapas/Enfriamiento de 2 etapas, 2 transformadores

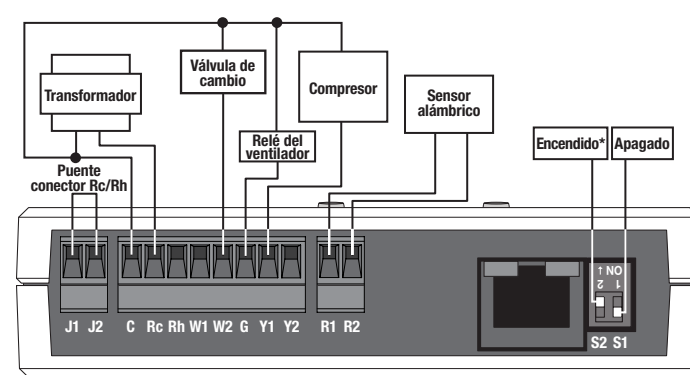


Sistema de calefacción convencional eléctrica • Calefacción de 2 etapas/Enfriamiento de 2 etapas, 2 transformadores

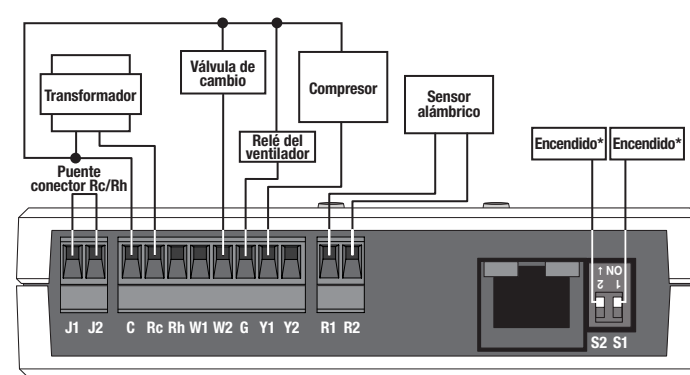


Sistema de la bomba de calefacción

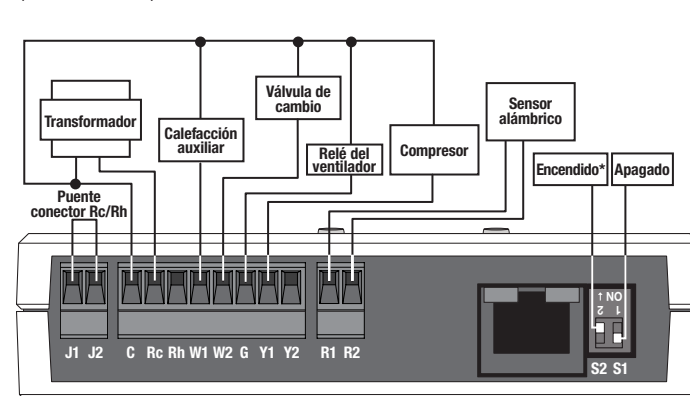
Bomba de calefacción de una sola etapa (Cambio = frío)



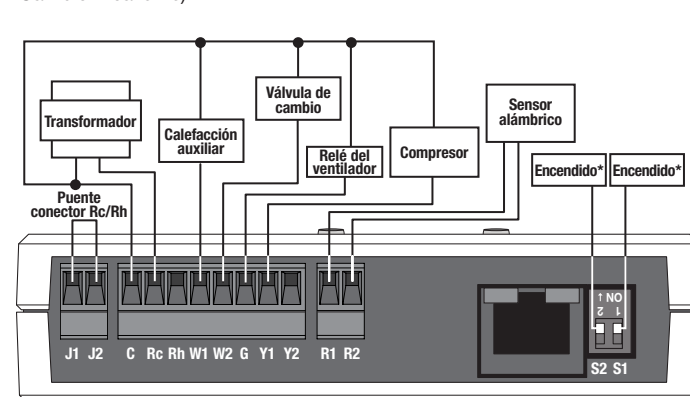
Bomba de calefacción de una sola etapa (Cambio = calor)



Bomba de calefacción de una sola etapa con calefacción auxiliar (Cambio = Frío)

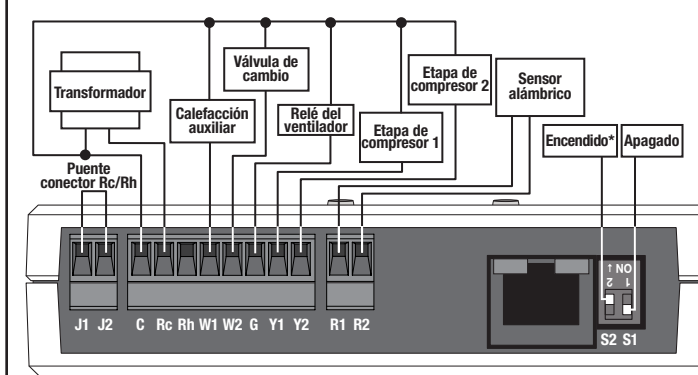


Bomba de calefacción de una sola etapa con calefacción auxiliar (Cambio = caliente)

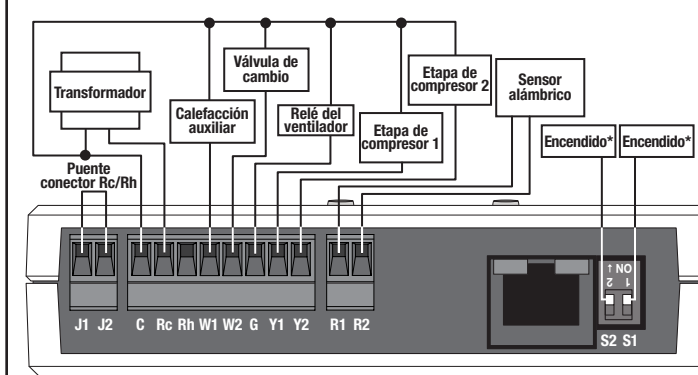


Sistema de la bomba de calefacción (continuación)

Bomba de calefacción de 2 etapas con calefacción auxiliar (Cambio = Frío)



Bomba de calefacción de 2 etapas con calefacción auxiliar (Cambio = caliente)



Guía de resolución de problemas

Síntoma	Causa probable y remedio
La temperatura se siente demasiado caliente/fría.	<p>El equipo de HVAC no funciona bien o no tiene suficiente capacidad y no puede alcanzar el punto de ajuste.</p> <ul style="list-style-type: none"> Comuníquese con el instalador del HVAC. <p>El sensor no está colocado cerca de los retornos del HVAC.</p> <ul style="list-style-type: none"> Mueva el sensor. <p>La batería está descargada en el sensor inalámbrico de temperatura.</p> <ul style="list-style-type: none"> Reemplace la batería.
El controlador de HVAC no responde a los cambios de temperatura o al visualizador de pared seeTemp™.	<p>El controlador de HVAC no está asignado a un sensor inalámbrico de temperatura o un visualizador de pared de seeTemp™.</p> <ul style="list-style-type: none"> Siga los pasos que se indican en Programación por un instalador capacitado en la fábrica de Lutron™. <p>El dispositivo no tiene alimentación.</p> <ul style="list-style-type: none"> Asegúrese de que el dispositivo reciba alimentación. <p>La temperatura podría tardar hasta 20 minutos en cambiar en el espacio.</p> <p>El equipo de HVAC no funciona bien o no tiene suficiente energía y no puede alcanzar el punto de ajuste.</p> <ul style="list-style-type: none"> Comuníquese con el instalador del HVAC. <p>El sensor alámbrico no está instalado.</p> <ul style="list-style-type: none"> Instale el sensor alámbrico.
El LED del sensor no se enciende al presionar los botones de enlace o prueba.	<p>La batería está descargada en el sensor inalámbrico de temperatura.</p> <ul style="list-style-type: none"> Reemplace la batería.
Los LED de un visualizador de pared seeTemp™ no se encienden cuando se presionan los botones.	<p>El visualizador de pared seeTemp™ no tiene energía.</p> <ul style="list-style-type: none"> El cortacircuitos está APAGADO. ENCIENDA el cortacircuitos. Asegúrese de que el visualizador de pared seeTemp™ esté cableado en forma apropiada.
Los 6 LED del visualizador de pared seeTemp™ parpadean cuando se presiona cualquier botón.	<p>El visualizador de pared seeTemp™ está en el modo de preferencias de fábrica y no ha sido configurado para trabajar en un sistema.</p> <ul style="list-style-type: none"> Siga los pasos que se indican en Programación por un instalador capacitado en la fábrica de Lutron™.
El LED del visualizador de pared seeTemp™ de la temperatura ambiente parpadea rápidamente.	<p>Está baja la batería del sensor inalámbrico de temperatura.</p> <ul style="list-style-type: none"> Reemplace la batería del sensor inalámbrico de temperatura.
El LED del visualizador de pared seeTemp™ de la temperatura parpadea rápidamente.	<p>El equipo de HVAC se está comunicando con el sensor alámbrico y no se puede comunicar con uno o más de los sensores inalámbricos de temperatura o el sensor alámbrico no está conectado.</p> <ul style="list-style-type: none"> Mueva el sensor inalámbrico de temperatura más cerca de un repetidor. Asegúrese de que el sensor alámbrico está conectado.
El LED del visualizador de pared seeTemp™ de la habitación se desplaza hacia arriba y hacia abajo.	<p>No se detecta ningún sensor inalámbrico de temperatura ni ningún Sensor alámbrico para el conducto de retorno de aire.</p> <ul style="list-style-type: none"> Cambie la batería del sensor inalámbrico de temperatura. Agregue un sensor inalámbrico de temperatura. Agregue un sensor alámbrico.
Los LED del visualizador de pared seeTemp™ de la habitación y de ajuste se desplazan hacia arriba y hacia abajo al presionar el botón.	<p>Error en la comunicación.</p> <ul style="list-style-type: none"> Mueva uno de los repetidores más cerca del visualizador de pared seeTemp™.
Los LED del visualizador de pared seeTemp™ superiores de temperatura de la habitación y de ajuste parpadean lentamente.	<p>La temperatura de la habitación o de ajuste es mayor a la temperatura máxima que se visualiza.</p>
El LED del visualizador de pared seeTemp™ inferior de la habitación o de ajuste parpadea lentamente.	<p>La temperatura de la habitación o de ajuste es menor a la temperatura mínima que se visualiza.</p>
La temperatura ambiente cambia constantemente.	<p>Si utiliza un sensor cableado como fuente principal de control de temperatura, asegúrese de que la ubicación del sensor sea correcta y verifique haber seguido las indicaciones de cableado.</p>
Los LED del controlador de HVAC no se encienden cuando tiene energía.	<p>No hay energía.</p> <ul style="list-style-type: none"> El cortacircuitos está APAGADO o se accionó. Debe restablecer o encender el cortacircuitos. Asegúrese de que el controlador de HVAC esté conectado correctamente.
El LED Active de "Estado del sensor inalámbrico" del controlador de HVAC está parpadeando.	<p>Al menos un sensor inalámbrico de temperatura no se está comunicando.</p>

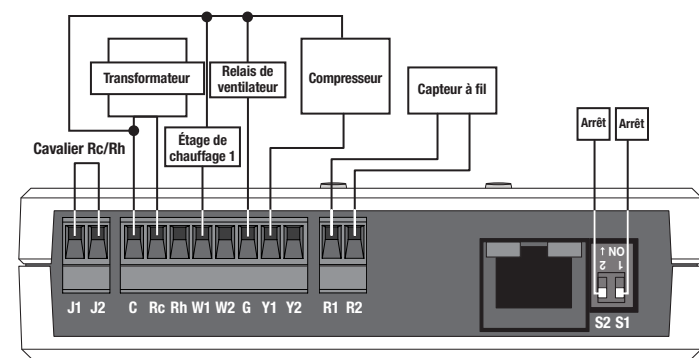
*NOTA: Después de cambiar la ubicación del interruptor DIP, apague y encienda la alimentación de la unidad.

Câblage de votre système

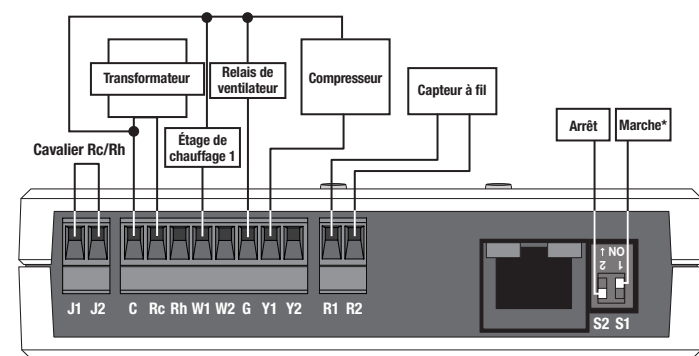
REMARQUE : Les bornes R1 et R2 ne sont pas sensibles à la polarité.

Système conventionnel

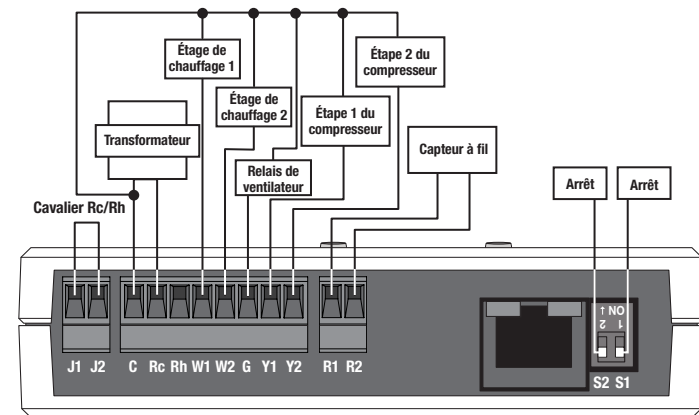
Système conventionnel au Gaz/huile • 1 étape de chauffage/1 étape de climatisation



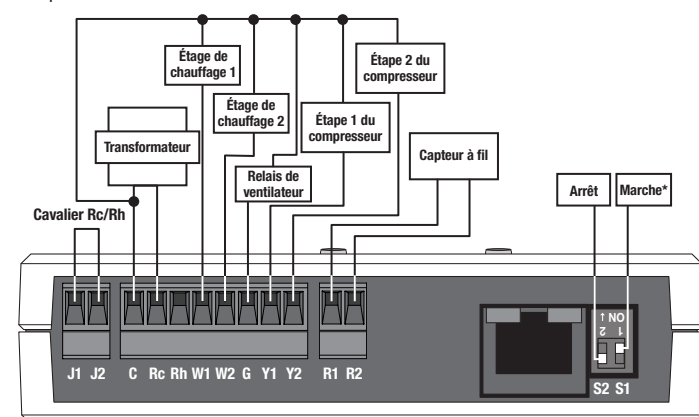
Système conventionnel à chauffage électrique • 1 étape de chauffage/1 étape de climatisation



Système conventionnel au Gaz/Huile • 2 étapes de chauffage/2 étapes de climatisation

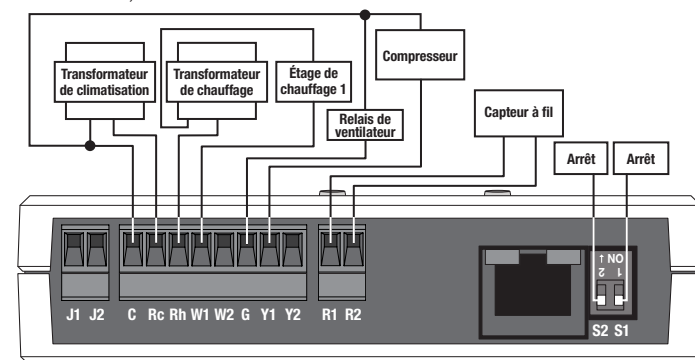


Système conventionnel à chauffage électrique • 2 étapes de chauffage/2 étapes de climatisation

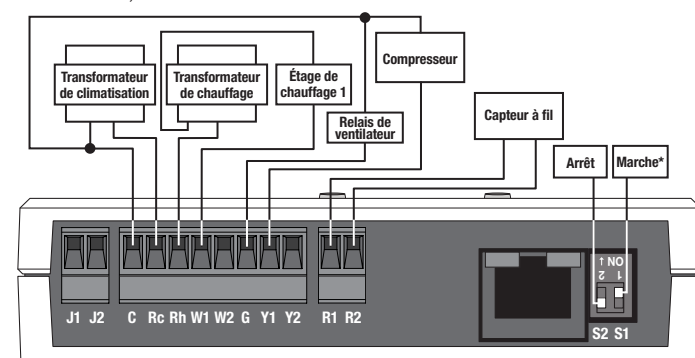


Système conventionnel (Suite)

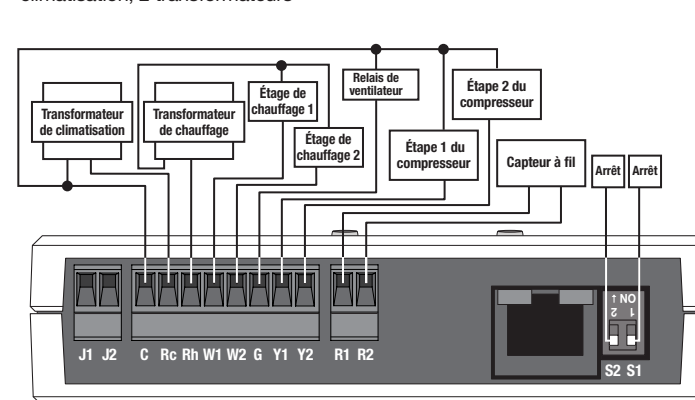
Système conventionnel au Gaz/huile • 1 étape de chauffage/1 étape de climatisation, 2 transformateurs



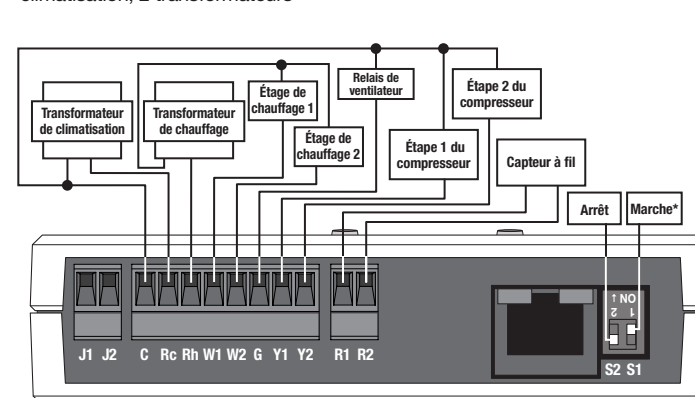
Système conventionnel à chauffage électrique • 1 étape de chauffage/1 étape de climatisation, 2 transformateurs



Système conventionnel au Gaz/huile • 2 étapes de chauffage/2 étapes de climatisation, 2 transformateurs

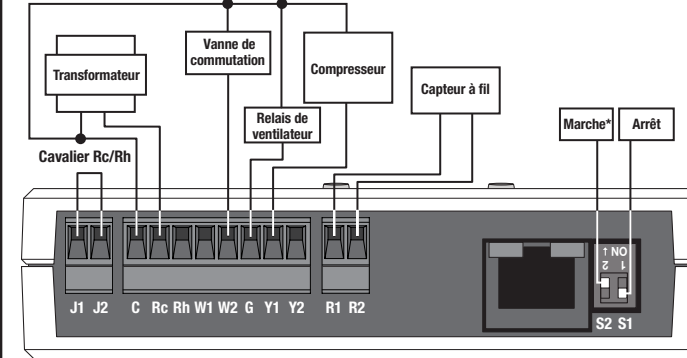


Système conventionnel à chauffage électrique • 2 étapes de chauffage/2 étapes de climatisation, 2 transformateurs

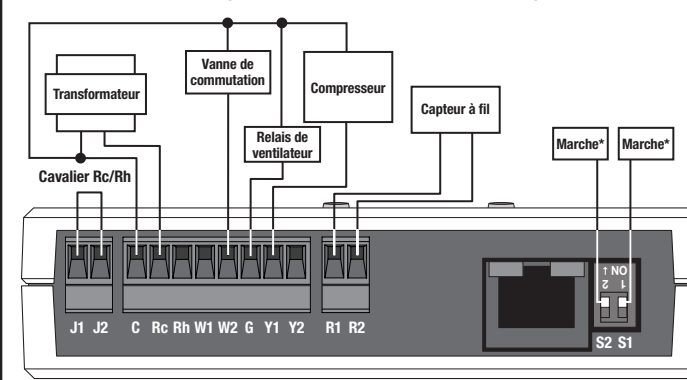


Système à pompe à chaleur

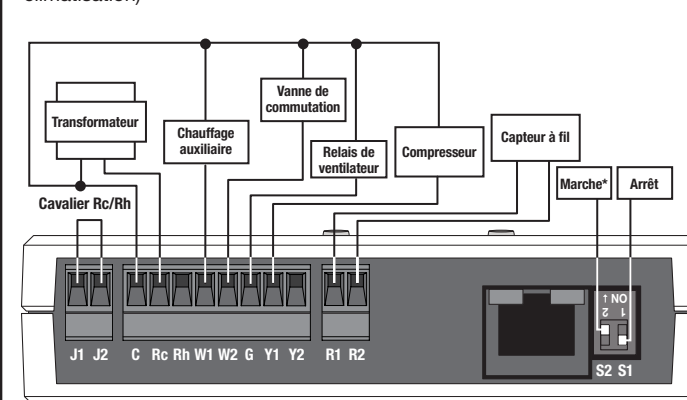
Pompe à chaleur à étage unique (commutation = climatisation)



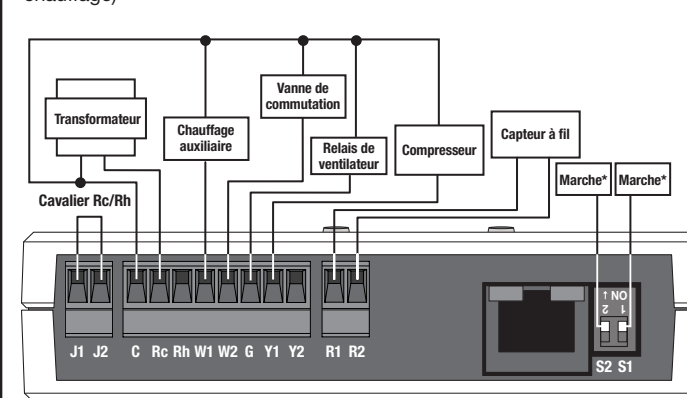
Pompe à chaleur à étage unique (commutation = chauffage)



Pompe à chaleur à étage unique avec chauffage accessoire (commutation = climatisation)

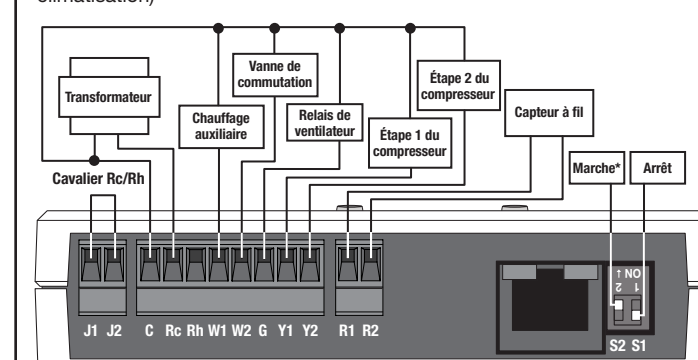


Pompe à chaleur à étage unique avec chauffage accessoire (commutation = chauffage)

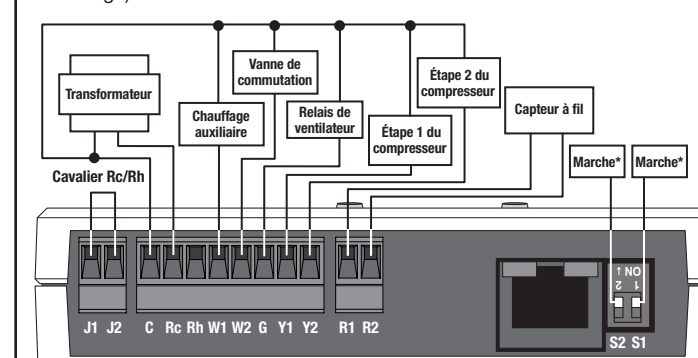


Système à pompe à chaleur (Suite)

Pompe à chaleur à double étage avec chauffage accessoire (commutation = climatisation)



Pompe à chaleur à double étage avec chauffage accessoire (commutation = chauffage)



Guide de dépannage

Symptôme	Cause probable et action
La température ressentie est trop haute/basse.	<ul style="list-style-type: none"> L'équipement de CVCA ne fonctionne pas correctement ou ne possède pas assez de capacité et n'arrive pas à atteindre la consigne. <ul style="list-style-type: none"> Contacter votre installateur CVCA. Le capteur n'est pas placé près d'une reprise de CVCA. <ul style="list-style-type: none"> Déplacer le capteur. La pile est morte de le capteur de température sans fil. <ul style="list-style-type: none"> Remplacer la pile.
Le contrôleur de CVCA ne répond pas aux changements de température ou à l'affichage mural seeTemp™.	<ul style="list-style-type: none"> Le contrôleur de CVCA n'est pas affecté à un capteur de température sans fil ou à un affichage mural seeTemp™. <ul style="list-style-type: none"> Suivre les étapes de Programmation par un technicien d'installation Lutron® formé en usine. L'appareil n'est pas sous tension. <ul style="list-style-type: none"> Assurez-vous que l'appareil est sous tension. La température du local peut prendre jusqu'à 20 minutes pour changer. L'équipement de CVCA ne fonctionne pas correctement ou ne possède pas assez de puissance et n'arrive pas à atteindre la consigne. <ul style="list-style-type: none"> Contacter votre installateur CVCA. Le capteur à fil n'est pas installé. <ul style="list-style-type: none"> Installer le capteur à fil.
La DEL du capteur ne s'allume pas quand on appuie sur un bouton "Liaison" ou "Test".	<ul style="list-style-type: none"> La pile est morte de le capteur de température sans fil. <ul style="list-style-type: none"> Remplacer la pile.
Les voyants DEL d'un affichage mural seeTemp™ ne s'allument pas lorsqu'on appuie sur les boutons de cet affichage.	<ul style="list-style-type: none"> L'affichage mural seeTemp™ n'est pas sous tension. <ul style="list-style-type: none"> Le disjoncteur est en position d'ARRÊT. Remettre en MARCHE le disjoncteur. Veiller à ce que l'affichage mural seeTemp™ soit correctement câblé.
6 voyants DEL sur l'affichage mural seeTemp™ clignotent quand on appuie sur n'importe lequel des boutons.	<ul style="list-style-type: none"> L'affichage mural seeTemp™ est en mode de réglage d'usine et n'a pas été configuré pour fonctionner avec un système. <ul style="list-style-type: none"> Suivre les étapes de Programmation par un technicien d'installation Lutron® formé en usine.
Le voyant DEL sur l'affichage mural seeTemp™ de température ambiante clignote rapidement.	<ul style="list-style-type: none"> La pile du capteur de température sans fil est faible. <ul style="list-style-type: none"> Changer la pile du capteur de température sans fil.
Le voyant DEL sur l'affichage mural seeTemp™ de température de consigne clignote rapidement.	<ul style="list-style-type: none"> L'équipement de CVCA est en communication avec le capteur à fil et ne peut pas communiquer avec un ou plusieurs des capteurs de température sans fil, ou le capteur à fil n'est pas connecté. <ul style="list-style-type: none"> Déplacer le capteur de température sans fil pour le rapprocher d'un répéteur. Assurez-vous que le capteur à fil est connecté.
Les voyants DEL sur l'affichage mural seeTemp™ du local s'allument en faisant la navette de haut en bas.	<ul style="list-style-type: none"> Aucun capteur de température sans fil n'est présent et aucun capteur de température à fil n'est présent. <ul style="list-style-type: none"> Changer la pile du capteur de température sans fil. Ajouter un capteur de température sans fil. Ajouter un capteur de température à fil.
Les voyants DEL sur l'affichage mural seeTemp™ du local et de réglage s'allument en faisant la navette de haut en bas quand on appuie sur un bouton.	<ul style="list-style-type: none"> Erreur de communication. <ul style="list-style-type: none"> Déplacer un répéteur pour le rapprocher d'un affichage mural seeTemp™.
Le voyant DEL sur l'affichage mural seeTemp™ du haut (local ou réglage de température) clignote lentement.	<ul style="list-style-type: none"> La température du local ou de consigne est supérieure à la température maximum affichable.
Le voyant DEL sur l'affichage mural seeTemp™ du bas (local ou réglage de température) clignote lentement.	<ul style="list-style-type: none"> La température du local ou de consigne est inférieure à la température minimum affichable.
La température ambiante fluctue continuellement.	<ul style="list-style-type: none"> Si un détecteur câblé est utilisé comme source principal de contrôle de température, assurez-vous que l'emplacement du détecteur câblé soit correct et que vous ayez suivi les directives minutieusement.
Les voyants DEL sur le contrôleur de CVCA ne s'allument pas quand il est mis sous tension.	<ul style="list-style-type: none"> L'alimentation électrique n'est pas présente. <ul style="list-style-type: none"> Le disjoncteur est OUVERT ou déclenché. Rétablir ou réarmer le disjoncteur. Veiller à ce que le contrôleur de CVCA soit correctement câblé.
Le voyant DEL "statut du capteur sans fil" du contrôleur de CVCA clignote.	<ul style="list-style-type: none"> Au moins un capteur de température sans fil ne communique pas.

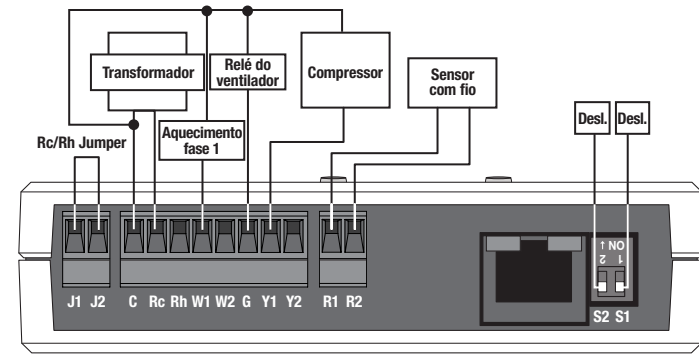
*REMARQUE : Après le changement de position du commutateur DIP, mettre les appareils sous tension dans l'ordre jusqu'à l'unité considérée.

Colocação da fiação em seu sistema

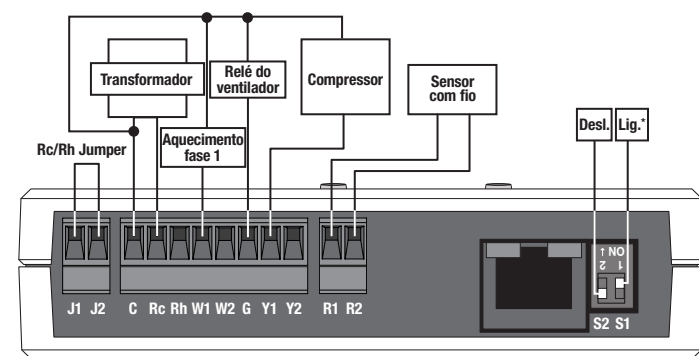
NOTA: Os terminais R1 e R2 não são sensíveis à polaridade.

Sistema convencional

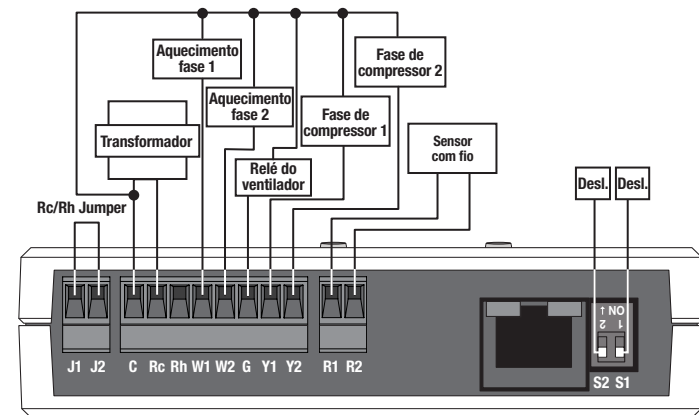
Sistema de aquecimento de gás/óleo convencional • 1 fase de aquecimento/1 fase de resfriamento



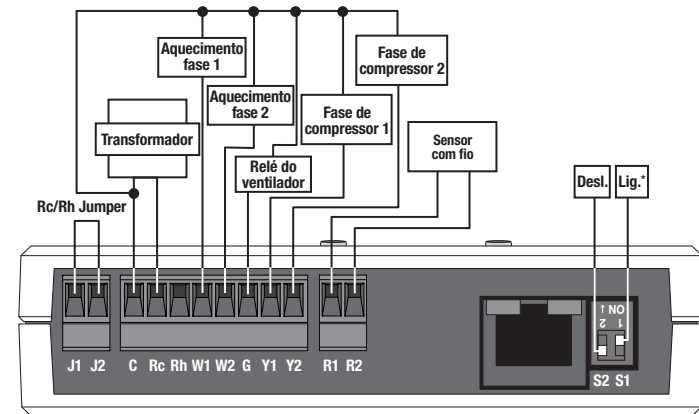
Sistema de aquecimento elétrico convencional • 1 fase de aquecimento/1 fase de resfriamento



Sistema de aquecimento de gás/óleo convencional • 2 fases de aquecimento/2 fases de resfriamento

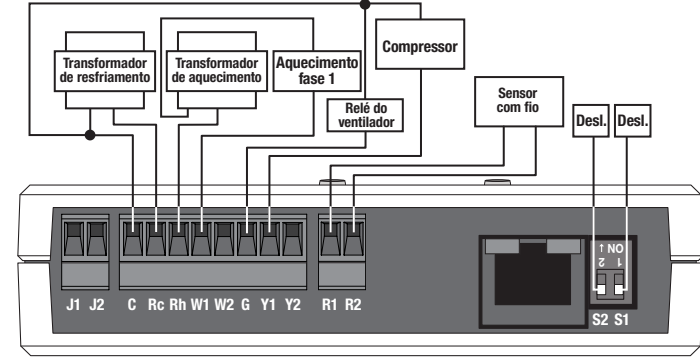


Sistema de aquecimento elétrico convencional • 2 fases de aquecimento/2 fases de resfriamento

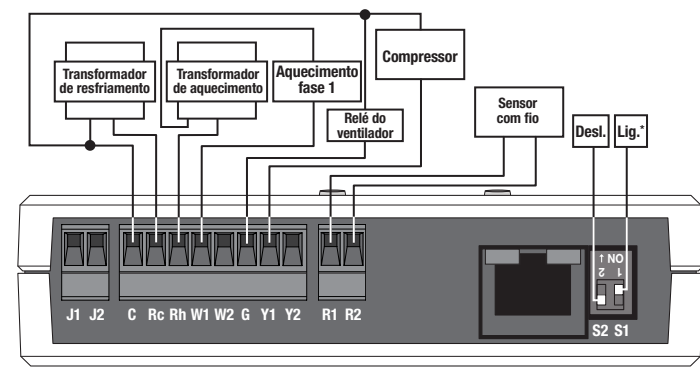


Sistema convencional (Continuação)

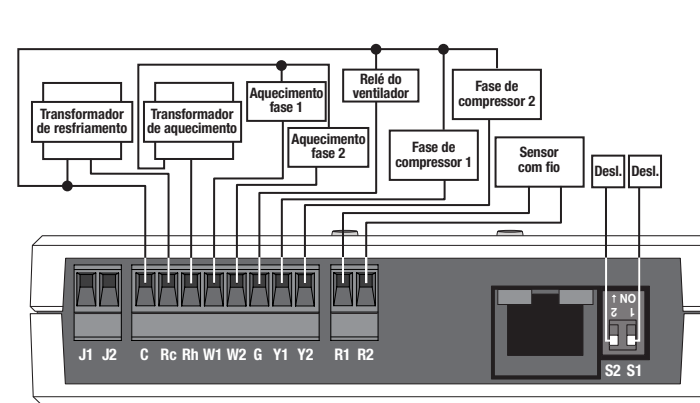
Sistema de aquecimento de gás/óleo convencional • 1 fase de aquecimento/1 fase de resfriamento, 2 transformadores



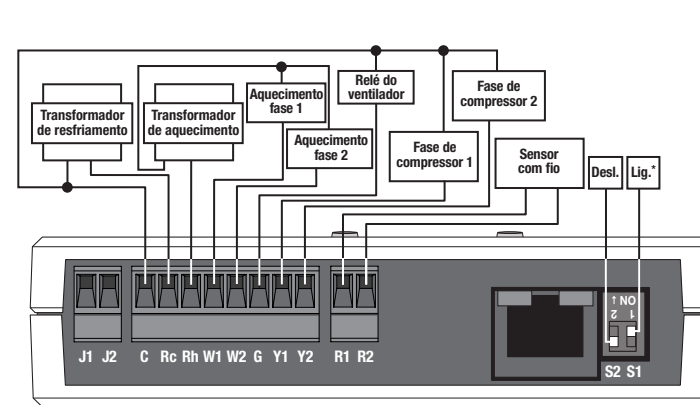
Sistema de aquecimento elétrico convencional • 1 fase de aquecimento/1 fase de resfriamento, 2 transformadores



Sistema de aquecimento de gás/óleo convencional • 2 fases de aquecimento/2 fases de resfriamento, 2 transformadores

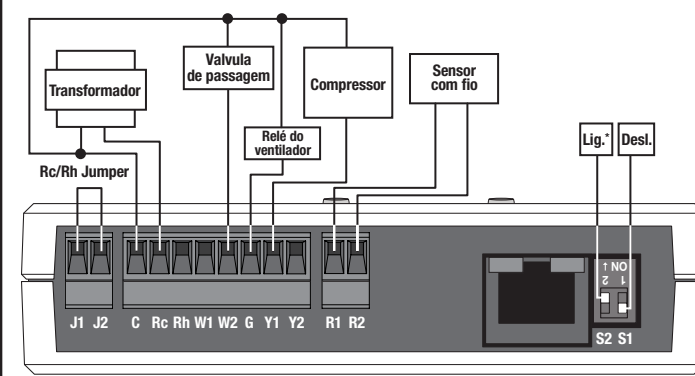


Sistema de aquecimento elétrico convencional • 2 fases de aquecimento/2 fases de resfriamento, 2 transformadores

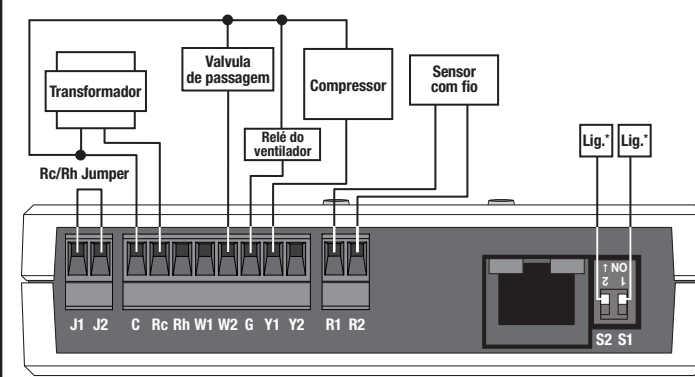


Sistema de bomba de calor

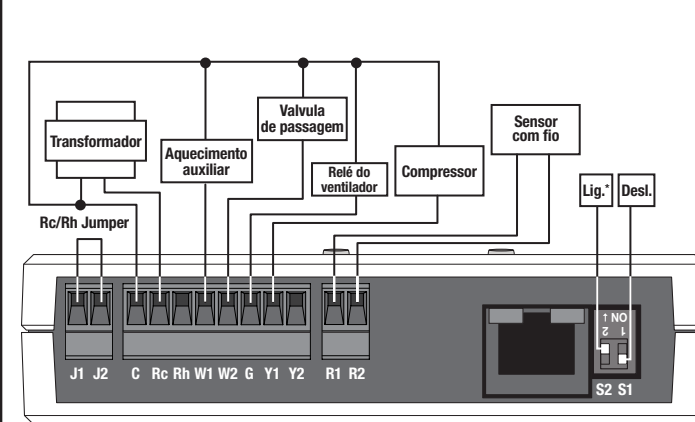
Bomba de calor de único estágio (Passagem = Resfriar)



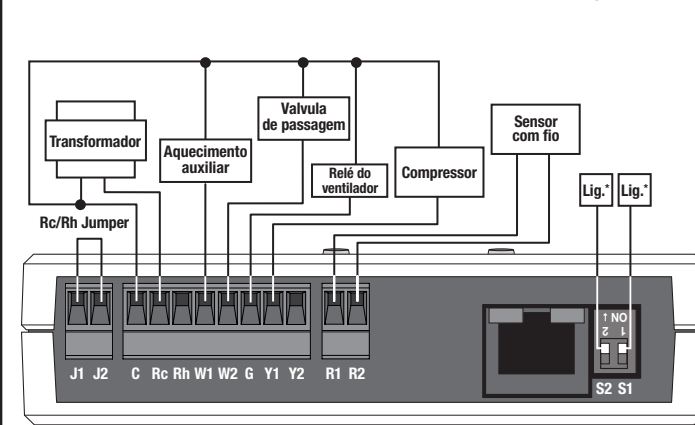
Bomba de calor de único estágio (Passagem = Aquecer)



Bomba de calor de fase única com aquecimento Auxiliar (Passagem = Resfriar)

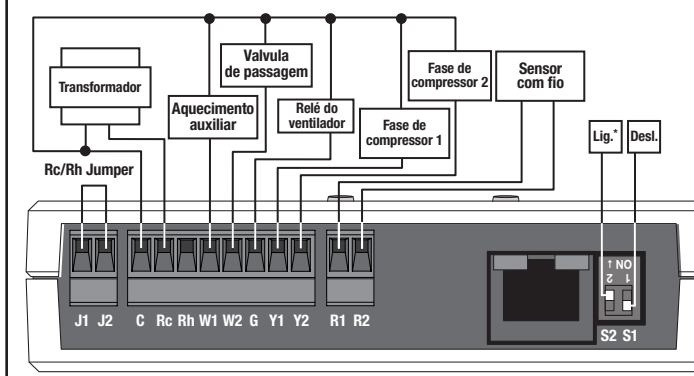


Bomba de calor de fase única com aquecimento auxiliar (Passagem = Aquecer)

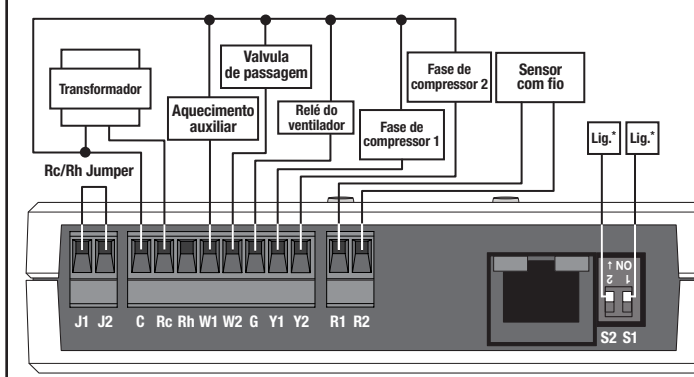


Sistema de bomba de calor (Continuação)

Bomba de calor de 2 fases com aquecimento auxiliar (Passagem = Resfriar)



Bomba de calor de 2 fases com aquecimento Auxiliar (Passagem = Aquecer)



Guia de solução de problemas

Sintoma	Causa provável e ação
A temperatura parece muito quente/fria.	O equipamento de HVAC não está funcionando corretamente ou não tem capacidade suficiente e não consegue atingir o ponto de ajuste. <ul style="list-style-type: none"> Entre em contato com seu instalador de HVAC.
	O sensor não está colocado perto do retorno do HVAC. <ul style="list-style-type: none"> Mova o sensor.
A bateria está descarregada no sensor de temperatura sem fio.	Substitua a bateria.
O controlador de HVAC não está respondendo às mudanças de temperatura ou do monitor de parede seeTemp™.	O controlador de HVAC não está atribuído a um sensor de temperatura sem fio ou ao monitor de parede seeTemp™. <ul style="list-style-type: none"> Siga os passos na Programação por um Instalador Treinado na Fábrica da Lutron.
Não há energia para o dispositivo.	Verifique se o dispositivo está ligado.
A temperatura pode levar até 20 minutos para mudar no espaço.	
O equipamento de HVAC não está funcionando corretamente ou não tem energia suficiente e não consegue atingir o ponto de ajuste.	Entre em contato com seu instalador de HVAC. <ul style="list-style-type: none"> Entre em contato com seu instalador de HVAC.
O sensor com fio não está instalado.	Instale o sensor com fio.
O LED do sensor não liga quando os botões de ligação ou de teste são apertados.	A bateria está descarregada no sensor de temperatura sem fio. <ul style="list-style-type: none"> Substitua a bateria.
Os LEDs em um monitor de parede seeTemp™ não ligam quando os botões são apertados.	Não há energia no monitor de parede seeTemp™. <ul style="list-style-type: none"> Disjuntor DESL. LIGUE o disjuntor. Verifique se o monitor de parede seeTemp™ está conectado corretamente.
6 LEDs no monitor de parede seeTemp™ pisca quando qualquer botão é apertado.	O monitor de parede seeTemp™ está no modo de Preferências de Fábrica e não foi configurado para trabalhar em um sistema. <ul style="list-style-type: none"> Siga os passos em Programação por um Instalador Treinado na Fábrica da Lutron.
O LED no monitor de parede seeTemp™ da temperatura ambiente pisca rapidamente.	Bateria fraca no sensor de temperatura sem fio. <ul style="list-style-type: none"> Substitua a bateria no sensor de temperatura sem fio.
O LED no monitor de parede seeTemp™ da temperatura ajustada pisca rapidamente.	O equipamento de HVAC está se comunicando com o sensor com fio e não consegue se comunicar com um ou mais dos sensores de temperatura sem fio ou sensor com fio não está conectado. <ul style="list-style-type: none"> Mova o sensor de temperatura sem fio para mais perto de um repetidor. Verifique se o sensor com fio está ligado.
O LED no monitor de parede seeTemp™ ambiente vai para cima e para baixo.	Nenhum sensor de temperatura sem fio e nenhum sensor com fio estão presentes. <ul style="list-style-type: none"> Substitua a bateria no sensor de temperatura sem fio. Adicione um sensor de temperatura sem fio. Adicione um sensor com fio.
Os LEDs no monitor de parede seeTemp™ ambiente e de ajuste vão para cima e para baixo quando o botão é apertado.	Erro de comunicação. <ul style="list-style-type: none"> Mova um repetidor para mais perto de um monitor de parede seeTemp™.
O LED no monitor de parede seeTemp™ superior de ambiente ou de ajuste piscam lentamente.	A temperatura ambiente ou a temperatura de ajuste estão acima da temperatura máxima exibida.
O LED no monitor de parede seeTemp™ inferior de temperatura ambiente ou temperatura de ajuste pisca lentamente.	A temperatura ambiente ou a temperatura de ajuste estão abaixo da temperatura máxima exibida.
A temperatura do ambiente está constantemente instável.	Caso use um sensor com fio como fonte principal do controle de temperatura, certifique-se de que a posição do sensor esteja correta e de que as instruções de fiação foram seguidas.
Os LEDs do controlador de HVAC não acendem quando ele é ligado.	Ausência de energia. <ul style="list-style-type: none"> O disjuntor está DESLIGADO ou disparado. Restaure ou ligue o disjuntor. Verifique se o controlador do HVAC está conectado corretamente.
O LED ativo "Status do Sensor Sem Fio" do Controlador de HVAC está piscando.	Pelo menos um sensor de temperatura sem fio não está se comunicando.

*NOTA: Depois de mudar a posição da chave DIP, desligue e ligue o aparelho.