



MRCOOL Link

Frequently Asked Questions (FAQs)

mrcool.com

- What is MRCOOL Link?

MRCOOL Link is a cloud-based integrated controls platform that allows auto-switching between your HVAC systems. This minimizes the use of fossil fuel-based furnaces/boilers while maximizing the use of heat pumps. The innovative system streamlines and automates indoor climate, providing optimal comfort and maximizing energy efficiency.

Using the MRCOOL Link, you can:

- Link multiple MRCOOL HVAC units, including mini-splits, central and AUX systems
- Minimize the usage of AUX heat
- Maximize the utilization of MRCOOL mini-splits and reduce the usage of central heat pumps
- Automate the operation of multiple MRCOOL mini-splits

Triggers and actions can be based on multiple factors, such as:

- Outdoor temperature going above or below a certain point.
- Indoor temperature going above or below a certain point.
- An action on a MRCOOL device, which in return triggers an action on other devices. For example, if the office mini-split is powered off, set the MRCOOL Smart Thermostat to 'Home' Preset.

- Which MRCOOL devices are compatible with MRCOOL Link?

The following devices are compatible with MRCOOL Link:



- Is MRCOOL Link free to use, or does it have a paid subscription?

MRCOOL Link is free to use and doesn't require any subscriptions. No hidden fees or restrictions.

- How can I automate the use of MRCOOL mini-split, central heat pump, and furnace as Aux heat using MRCOOL Link?

Aux heat kicks in when the outside temperature falls below a certain range, and your heat pump cannot efficiently maintain your desired home temperature. Since aux heat consumes significantly more energy, you must run it only when absolutely necessary.

Consider you have a MRCOOL Smart Thermostat connected to your central HVAC, your Aux heating system (furnace/boiler), and a Smart Wi-Fi Mini-Stat/ USB Dongle connected to your mini-split. You can follow the steps below to ensure a comfortable and energy-efficient home.

Note: You can either use MRCOOL Smart Wi-Fi Mini-Stat or Smart Wi-Fi USB Dongle with MRCOOL mini-split.

- Switch to Aux when the outside temperature falls below 5F

When the outside temperature falls below 5F (or the value that you have set), your thermostat will switch to furnace heating.

(You can use this case as an example to create links based on your situation and heating/cooling equipments.)

Here's how you can create this link:

Step 1: Open the MRCOOL SmartHVAC App. Tap on 'Menu' on the home screen and then tap 'Explore'.



Step 1

Step 2: Tap the '+' icon and then 'Select a source'.



Step 3: Select 'Outdoor temperature' and tap 'Next'. Select 'Falls below' and set the temperature to '5F'. Tap 'Next'.

| < Create Link | Create Link | < Create Link |
|----------------------------------|-------------------------|-----------------------|
| Select a source | lf | lf |
| Home O | ېخ. Outdoor temperature | ن Outdoor temperature |
| laie | Falls below | Falls below \vee |
| Smart Thermostat for Mini Splits | Falls below | |
| O I | Coes above | 5° |
| Bedroom Powered On | 5° | -30° |
| Outdoor | -30° 130' | |
| Next | Next | Next |
| K | | K |
| | Step 3 | |

Step 4: Select Home Smart Thermostat, tap 'Next', then 'Change mode'.

| < Create Link | | Create Link | |
|----------------------------------|----------|---------------|---|
| Select the device | Select a | source | 4 |
| Smart Thermostat | * | Change Mode | > |
| Home Idle | | Change Preset | > |
| Smart Thermostat for Mini Splits | | | |
| Living Room Powered On | | | |
| Next | | | 5 |
| | Step 4 | | |

Step 5: Change 'Mode' to 'Aux'. Tap on 'Create Link'.

| < Create Link | | Create Link | <pre> K MRCOOL Link + K K K K K K K K K K K K K K K K K K K</pre> |
|--|---------------------|---------------------------------------|--|
| Then change mode of | | Link conditions | My Smart Links |
| Home Idle | 79° 0 48% | If Outdoor temperature falls below 5° | Outdoor temperature fails below 5° 1 action on 1 device I action on 1 device |
| Heat Cool Auto Aux Off | × 、 | Then Set Mode to Aux Home | 2 |
| Next | - 5 | Create Link Step 5 | |

- Switch to central heat pump when the outside temperature goes above 5F

Here's how you can create this link:

Step 1: Open the MRCOOL SmartHVAC App. Tap on 'Menu' on the home screen and then tap 'Explore'.



Step 1

Step 2: Tap the '+' icon. Tap on 'Select a Source'.



Step 3: Select 'Outdoor temperature'. Tap on 'Next'.

Step 4: Select 'Goes above' and set the temperature to '5F'. Tap 'Next'.



Step 5: Select Home Thermostat and tap on 'Next'.

Step 6: Tap on 'Change mode'. Tap 'Heat' and then 'Next'.



Step 7: Tap on 'Create Link'.

| Create Link | | MRCOOL Link | + |
|-------------------------------------|------|--|---|
| Link conditions | | My Smart Links | |
| If Ø Outdoor temperature goes above | 5° > | Outdoor temperature falls below 5° 1 action on 1 device | |
| Then Set Mode to Heat Home | + | Outdoor temperature goes above 5° laction on I device | |
| Create Link | Ster | | |

- Turn on the MRCOOL mini-split and turn off the central heat pump when the outside temperature goes above 20F

You can create another link that automatically turns on the mini-split heat pump and switches off the central heat pump when the outdoor weather returns to suitable conditions.

Here's how you can create this link:

Step 1: Open the MRCOOL SmartHVAC App. Tap on 'Menu' on the home screen and then tap 'Explore'.



Step 1

Step 2: Tap the '+' icon.

Step 3: Tap on 'Select source'. Select 'Outdoor temperature'. Tap on 'Next'.



Step 4: Set it to 'Goes above 20F'. Tap 'Next'.

Step 5: Select MRCOOL Smart Wi-Fi Mini-Stat Living Room, tap 'Next', then 'Change settings.'

| Create Link | < Create Link | Create Link |
|--------------|----------------------------------|-------------------------------------|
| If | Select the device | Select a source |
| | Smart Thermostat | ♥ Change settings > |
| | <u>о</u> | Change Preset |
| | | |
| Goes above V | Idle | |
| 20° | Smart Thermostat for Mini Splits | |
| — | | |
| -30° 130° | | |
| | Living Room Powered On | |
| | | |
| | | |
| | 1 | |
| | E C | |
| Next | Next | |
| Step 4 | Ste | |

Step 6: Set 'AC State' to 'On'. Make relevant changes to mode, temperature, and fan speed. Tap 'Next'.

| < | Create Link | | < Crea | ite Link |
|---------------|-----------------------|--------|---------------------|----------|
| Then change s | settings to | | Then change setting | s to |
| AC State | | On > | AC State | On > |
| Mode | | Cool > | Mode | Cool> |
| Temperature | | 68° > | Temperature | 68° > |
| Fan | | High > | Fan | High > |
| | Power On Power Off | d | | |
| - | Next | Ste | p 6 | vext |

Step 7: Tap on '+' icon. Select Home Thermostat, and tap 'Next'.

| Create Link | ✓ Create Link |
|---------------------------------|------------------------------------|
| Link conditions | Select the device |
| If | Smart Thermostat |
| Outdoor temperature goes > | (<u>s</u>) |
| Then | Home Idle |
| Change settings Living Room | Smart Thermostat for Mini Splits |
| | (15) Living Room Powered Off |
| Create Link | Next |
| Ste | ep 7 |

Step 8: Tap on 'Change Preset'. Select 'Away' preset. Tap Next.



Step 9: Tap on 'Create Link'.



- How can I use MRCOOL Link to auto-switch between MRCOOL mini-split and a furnace?

Consider you have a MRCOOL Smart Thermostat connected to your furnace and one Smart Wi-Fi Mini-Stat/ USB Dongle connected to a mini-split in your living room. You can create a link to switch to furnace heating when the outdoor temperature falls below freezing conditions. When the outdoor temperature returns to suitable conditions, MRCOOL Smart Wi-Fi Mini-Stat will automatically switch your mini-split heat pump on.

You can follow the steps below to maximize the use of mini-split and minimize the use of a furnace for heating your home.

Note: You can either use MRCOOL Smart Wi-Fi Mini-Stat or Smart Wi-Fi USB Dongle with MRCOOL mini-split.

Step 1: Open the MRCOOL SmartHVAC App. Tap on 'Menu' on the home screen and then tap 'Explore'.



Step 1

Step 2: Tap the '+' icon and then 'Select a source'.



Step 3: Select 'Outdoor temperature' as the trigger and tap 'Next'.

Step 4: Select 'Falls below' and set the temperature to '5F'. Tap 'Next'.



Note: The heating capacity of a mini-split decreases in extremely cold climate conditions. Refer to your mini-split user manual for specific information about the minimum outdoor temperature your unit can operate in.

Step 5: Tap on 'Select the device'.

Step 6: Select MRCOOL Smart Wi-Fi Mini-Stat Living Room, tap 'Next', then 'Change settings'.

| Create Link | Create Link | Create Link |
|--|----------------------------------|------------------|
| Link conditions | Select the device | Select an action |
| If Cutdoor temperature falls Dutdoor 5° Then Select the device | Smart Thermostats for Mini-Split | |
| | Next | |
| Step 5 | | Step 6 |

Step 7: Set the 'AC State' to 'Power Off'.

| Create Link | | < Create | Link |
|-------------------------|--------|---------------------|--------|
| Then change settings to | | Then change setting | s to |
| AC State | | AC State | On > |
| Mode | Heat > | Mode | Heat > |
| Temperature | 68° > | Temperature | 68° > |
| Fan | Low > | Fan | Low > |
| Swing | Auto > | 5 Powe | r On |
| Next | | Powe | xt |
| | Ste | p 7 | |

Step 8: Tap 'Next' and then on the '+' icon.

| < | Create Link | | Create Link |
|------------|----------------|-------|--|
| Then chang | ge settings to | | Link conditions |
| AC State | | Off > | If |
| | | | Outdoor temperature falls > below 5° > |
| | | | Then |
| | | | Change settings |
| | | | Living Room |
| | | | |
| | | | |
| | | | |
| | Next | | Create Link |
| 7 | | | |
| | | Ste | р 8 |

Step 9: Select 'Home' then tap 'Next'. Then tap on '+' icon.



Step 10: Select 'Home Preset' then tap 'Next'. Then tap on 'Create Link'.

| < Create | e Link | | < Create Link | | K MRCOOL Link | k+ |
|--------------------|--------------|---------------------|---|---|--|------|
| Then change Preset | of | | Link conditions | | My Smart Links | |
| 15 Home Idle | | 65° 0 51% | If Outdoor temperature falls below 5° | > | Outdoor temperature fails belo 2 actions on 2 devices | w 5° |
| 🛊 Home | 69 | 2 73 | Then | • | | |
| 🕺 Away | 2 62 2 67 | ¥82 | Change settings | > | | |
| | | | Set Preset to Home Home | > | | |
| | | | | | | |
| | ext | | Create Link | | | |
| | | St | ep 10 | | | |

- How to automate the use of MRCOOL mini-split and central heat pump using MRCOOL Link?

Consider you have a MRCOOL Smart Thermostat connected to your central heat pump, and multiple Smart Wi-Fi Mini-Stat/ USB Dongle connected to mini-splits. You can create a link based on the optimal indoor temperature to maximize the use of mini-split heat pumps and minimize the use of the central HVAC system.

(You can use this case as an example to create links based on your situation and heating/cooling equipments.)

Note: You can either use MRCOOL Smart Wi-Fi Mini-Stat or Smart Wi-Fi USB Dongle with MRCOOL mini-split.

Here's how you can do that via MRCOOL Link:

Step 1: Open the MRCOOL SmartHVAC App. Tap on 'Menu' on the home screen and then tap 'Explore'.



Step 1

Step 2: Tap the '+' icon, then 'Select a source'.

Step 3: Select Home Thermostat as the triggering device and tap 'Next'.



Step 4: Select 'Indoor temperature' and set it to 'goes above 60F'. Tap 'Next'.

| Create Link | Create Link | Create Link |
|----------------------|---------------------------------|----------------------------------|
| Select a trigger | If indoor temperature of | If indoor temperature of |
| 1 Indoor temperature | | |
| 🛞 Mode | Home 61° Heating to 68° 045% | Home 61° Heating to 68° 0 45% |
| Preset > | | |
| | Goes above | Coes above \checkmark |
| | Falls below | CO 2 |
| | Coes above | 80 |
| | 60° | 40° 99° |
| | 40° 99° | |
| | | |
| | Next | Next |
| | | r |
| | Step 4 | × |

Step 5: Tap on 'Select the device'.

Step 6: Select MRCOOL Smart Wi-Fi Mini-Stat Kids Room, tap 'Next', then 'Change settings'.



Step 7: Set the 'AC State' to 'Power On' and change the settings according to your preferences. Tap 'Next'.



Step 8: Tap the '+' icon, select MRCOOL Smart Wi-Fi Mini-Stat Living Room, and tap 'Next'.



Step 9: Change 'AC State' to 'Power On' and change the settings according to your preferences. Tap 'Next'. Then tap on '+' icon.

| Create Link | | Create Link | | Create Link | | |
|-------------------------|--|-------------------------|----------|-----------------|------------------------------------|---|
| Then change settings to | | Then change settings to | | Link conditions | | |
| AC State | Off > | AC State | On > | lf | | |
| | | Mode | Heat > | ا ش al | ndoor temperature goes bove 60° | > |
| | | Temperature | 68° > | Н | ome | |
| | | Fan | Medium > | Thor | , I | |
| Power | On | Swing | Auto > | mer | | • |
| Power | off | | | 9 | Change settings Kids Room | > |
| | | | | 9 | Change settings Living Room | > |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | Create Link | |
| Nex | u contraction of the second se | | Next | | Create Link | |
| | | | <u> </u> | | | |
| | | St | ep 9 | | | |

Step 10: Select 'Home' Thermostat and tap 'Next'. Then tap 'Change Preset' and select 'Away' and then tap 'Next'.

| Create Link | Create Link | < Create Link |
|---|------------------|-----------------------|
| Select the device | Select an action | Then change Preset of |
| Smart Thermostats for Mini Splits | 🏶 Change Mode > | Home 61° |
| | Change Preset | Heating to 68° 045% |
| Kids Room Living Room Powered Off Powered Off | <u></u> | 👔 Home 💡 69 🔮 73 |
| | | 🛪 Away 🍃 🔓 🕏 🕏 🕏 |
| Home Heating to 68" | | Sleep 267 |
| Next | | Next |

Step 11: Now tap on 'Create Link'.



How to automate ON/OFF operation for multiple MRCOOL mini-splits using MRCOOL Link?

MRCOOL Link can help you link multiple mini-splits. Consider that you have one Smart Wi-Fi Mini-Stat/ USB Dongle connected to your mini-split in your bedroom and another Smart Wi-Fi Mini-Stat/ USB Dongle connected to your other mini-split in the living room. You can link these two together in a way that when your bedroom AC is turned off, your living room AC automatically turns on, and vice versa. (You can use this case as an example to link as many mini-splits as you want based on your situation).

Note: You can either use MRCOOL Smart Wi-Fi Mini-Stat or Smart Wi-Fi USB Dongle with MRCOOL mini-split.

Here's how you can create a link to do that:

Step 1: Open the MRCOOL SmartHVAC App. Tap on 'Menu' on the home screen and then tap 'Explore'.



Step 1

Step 2: Tap the '+' icon and 'Select a source'.



Step 3: Select MRCOOL Smart Wi-Fi Mini-Stat Bedroom as the triggering device and tap 'Next'. Tap on 'Power state' and select 'Powered Off'. Tap 'Next'.

| Create Link | Create Link | Create Link | | |
|-----------------------------------|--|---------------------------------|--|--|
| Select a source | Select a trigger | If AC state of | | |
| Smart Thermostats for Mini Splits | Indoor temperature Set point temperature Power state Preset | Bedroom 67° Powered On 0 51% | | |
| Next | | Next | | |
| Step 3 | | | | |

Step 4: Tap on 'Select the device'. Select MRCOOL Smart Wi-Fi Mini-Stat Living Room and tap 'Next'.

Step 5: Select 'Change Settings'

| Create Link | < Create Link | Create Link |
|------------------------------|--------------------------------------|-------------------------------------|
| Link conditions | Select the device | Select an action |
| lf | Smart Thermostats for Mini Splits | ♀ Change settings > |
| AC is powered off Bedroom | | Change Preset |
| Then | Bedroom Powered On Powered Off | |
| | | |
| | Next | |
| | Step 4 | Step 5 |

Step 6: Set the 'AC state' to 'Power On' and change the settings according to your preferences. Tap 'Next'.



Step 7: Tap on 'Create Link'.



Step 7