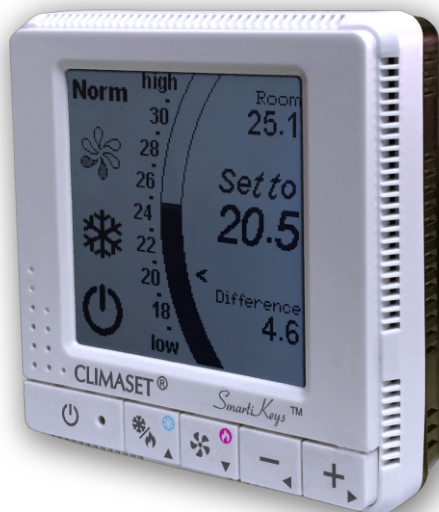


# CLIMASET<sup>®</sup>

Prossimo<sup>™</sup> Series



INSTRUCTION MANUAL

# CLIMASET<sup>®</sup>

Interactive controllers

Climaset<sup>®</sup> is under continuous development. Both the described products and document contents may be changed or withdrawn without any previous notice. The scope of the warranty and responsibility of Climaset<sup>®</sup> applies to the device only. Under no circumstances shall Climaset<sup>®</sup> be responsible for any special, incidental, consequential, or indirect damages, howsoever caused.

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## Enjoying your Climaset® safely

The instructions below have been prepared to help you enjoy using your Climaset® safely for many years. Please read it thoroughly before starting to use the device.

- Each air conditioning device should be protected by its own miniature circuit breaker (MCB).
- Each thermostat is intended to control a single air conditioning unit. We do not recommend control of multiple units with a single thermostat.
- If you ever encounter device malfunction, switch the respective MCB off and contact customer service.
- Should you notice that your air conditioner is not protected by an MCB, ask your electrician to add one for you. You may find proper recommended MCB specifications in Appendix A.
- The MCB rating should be selected according to the required current for the normal operation of your air conditioner. Using higher ratings, protection is not assured.
- Your Climaset® also protects itself as well as your air conditioner with a fuse. In case of a burnt fuse, please check for malfunction of your air conditioner and thermostat, incorrect wiring, or short circuit. It may also indicate that the thermostat cannot supply the necessary current for the air conditioner. You may need to add a relay

between the thermostat and the air conditioner. Refer to Appendix B.

- Always replace the fuse with one of the same type. Fuses have several specifications other than their current rating. Check Appendix E for the proper type of fuse. Contact your local customer service if an extra fuse is necessary.
- Never bridge the fuse with a wire or replace it with one of a higher rating.
- Before screwing the wires to the device terminals, use the wire ferrules supplied with the device. This will avoid the possibility of a short circuit. We recommend using AWG 16 (1.5 mm) cables.
- Never use detergent to clean the thermostat surface. It may leave undesirable marks on the surface of the thermostat, especially on the screen. Always use a soft, moist tissue to clean the device.
- Should liquid crystal leak from the screen, avoid all contact with the eyes, mouth, and skin.
- The device is not designed to work in places with condensing humidity.
- Strong electromagnetic fields, such as powerful radio transmissions, can distort the screen content or cause device malfunction.
- Never try to fix the device yourself. Replacement of the parts may affect the safe usage of the device. Always contact your local Climaset® service center for repair.

## Introducing your Climaset®

The Climaset® Prossimo™ series is the most compact, ultra-slim wall-mount thermostat ever designed. With its large screen and multi-function keys, it is a new frontier in functionality standards in the thermostat industry.

The Smartykeys™ one-touch automatic adjustment is easy to operate even for those who find it difficult to work with digital thermostats. Now, there is a single assigned key for the frequently used adjustments, such as fan speed, desired temperature, and heat/cool selection. Even advanced adjustments in the "Extra settings" screen are easy in the Prossimo™ series because of the existing navigation-based system of the keys.

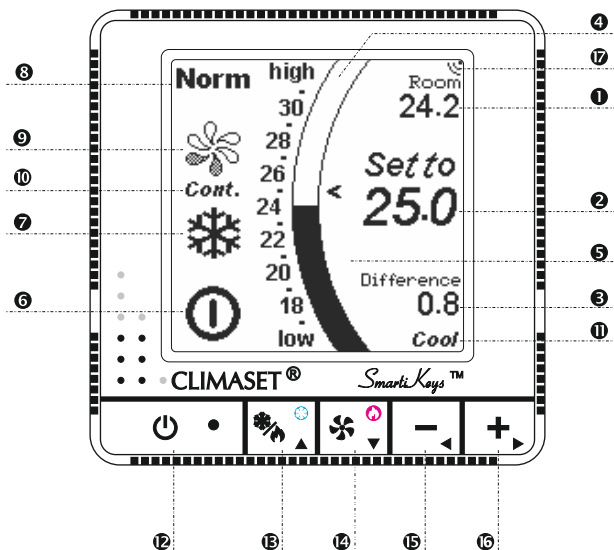
## Indicators on the screen and adjustments

The figure on the next page shows the display indicators and adjustments. The following section describes in detail the role of each indicator on the screen and how to manually adjust them.

- ❶ Room temperature: Indicates the existing room temperature.
- ❷ Set to: Your desired room temperature. Use the "+" key to increase or the "-" key to decrease the set temperature.

↘ The adjustment steps for setting the temperature have been reduced to 0.5°C in this new model to satisfy the most discriminating demands.

↘ Pressing the "+" or "-" key for a while speeds up the increase or decrease of the set temperature.



③ Difference reading: Room temperature variation from the desired temperature, set in ②.

④ Temperature bar graph: The room temperature is shown graphically by the curved bar graph. It is updated every few seconds and remains unchanged until the next reading.

⑤ Graphical temperature setting indicator: An arrow on the right side of the temperature bar graph shows the desired room temperature graphically, set in ②.

⑥ Power status: This shows the power status of the device. It may display one of the following indicators:

⏻ The device is in standby mode. In this mode, the thermostat displays your setting along with the room temperature, but the air conditioner is not turned on until you switch back to the operational mode. This mode is useful if you do not use your air conditioner for a long period, such as in the spring or autumn, when you are on a trip, or in rooms that are used rarely.

⏻ The device is in operational mode. The air conditioner will be switched on or off automatically according to your settings.

Use the power key (⏻) to switch between operational and standby mode.

🔥 Heating/cooling operation mode: This indicator specifies whether the device is operating in heating, cooling, or, if the device supports it, automatic heat/cool changeover or fan-only mode. Use the heat/cool changeover key (🔥) to switch between these modes.

⚠️ “Automatic heat/cool changeover mode” means the device may automatically change between heating or cooling based on the setting and the room temperature. This mode may not be supported by all air conditioners and accordingly may not be available in all thermostat models.

⚠️ The fan-only mode is useful if you need the air conditioner to just blow air without heating or cooling. In this mode, the thermostat does not switch the air conditioner off unless the power off key is pressed. This mode is not supported by all air conditioners and thermostat models and should be enabled in “Extra Settings” as described in Appendix C.

⚠️ Not adjusting this setting correctly will cause the malfunction of your air conditioner.



Choose ❄️ for cooling, 🔥 for heating, or, if your device supports it, 🌞 for automatic heat/cool or 🌀 for fan-only mode.

③ Fan operation modes: The following fan operation modes are available:

- Normal fan operation mode: The air conditioner runs with the adjusted fan speed whenever the thermostat restarts the air conditioner.
- Automatic fan speed changeover mode: The fan speed is proportional to the temperature difference between the room and the set point. As the room temperature approaches to the set point, the fan speed drops. You will benefit from the maximum capability of your air conditioner whenever it is required, in the hottest hours of the day, and you will enjoy quiet fan operation whenever possible throughout the rest of the day, and you will save a considerable amount of energy.

④ Fan speed: This displays the adjusted fan speed. The number of blades is proportional to the determined fan speed.

⚡ The icon displays the determined fan speed. The device may be on or off because of the difference between the room and the desired temperatures or the power status setting. In such a case, the fan speed icon is shaded gray to indicate that the air conditioner apparatus is actually off.

Use the fan speed key (🌀) to change the fan speed. If the fan speed is high and you press the fan speed key again, the automatic fan speed changeover mode will be selected and the thermostat determines the fan speed based on the difference as indicated in section ③ of the screen. A greater difference results in a higher fan speed, reducing the time needed to reach to the desired set point. Pressing the fan speed key (🌀) again exits the automatic fan speed changeover mode and returns to the normal mode. The minimum fan speed will be selected again accordingly.

⑤ Continuous fan operation: If your air conditioner is capable of performing in continuous fan operation mode and your thermostat model supports this option, you

may enable the continuous fan operation mode as described in Appendix C. In this mode, the fan never switches off, but the thermostat controls the room temperature by switching on or off components other than the fan, such as a compressor, an electric valve, etc. If this mode is selected, a "Cont." sign appears as shown in the figure.

① Heat/cool activation indicator: If the thermostat controls components other than the fan, it indicates their status. "Heat" or "Cool" means that the thermostat commands heating or cooling. If two stages of heating and cooling are available for your air conditioner and thermostat, they may be displayed as "Cool1" or "Heat1" for the first stage and "Cool2" or "Heat2" for the second stage. Also, if the thermostat directly controls a compressor for heating as a heat pump or cooling, a 3-minute restart delay is necessary to equalize the pressure on the compressor to prevent overload on its electro motor during startup. During these 3 minutes, a recycle delay warning is indicated on the screen.

⑦ Beep sound indicator: This indicates whether the key press beep is enabled or not. Press and hold the power key (⏻) for 5 seconds to turn it on or off.

✍ This has no effect on the confirmation beep sound for remote controller commands.

## **Smartikeys™: adjusting all settings with a single touch**

Determine whether you need to adjust the thermostat for cooling or heating. To adjust the device for cooling, just press the key with the blue snowflake sign (❄) for 5 seconds; to adjust it for heating, press the key with the red flame sign (🔥) for 5 seconds. The device will respond with a long beep. This means all the necessary

settings have been made. You do not need to press any more keys. These default settings have been optimized for most people and most environments.

✗ If the difference indicated on the display (❶) is below 1°C, the device may not turn on immediately. This means that the current room condition is at a comfortable level. The device will switch on as the temperature difference increases.

## Summary of steps to adjust your thermostat

① If you are not going to use the air conditioner for a while, switch the thermostat to standby mode. The display should indicate standby (⏻) (❷). If it is not, just press the power key (⏻) (❸). The standby icon will appear. Otherwise, if you are going to use your air conditioner, the operational mode indicator (⏻) (❹) should appear on the display. If it does not, just press the power key (⏻) (❸). The operational mode indicator will show up there.

② Use the heat/cool operation mode key to select heating or cooling. A flame indicator on the screen (🔥) (❺) indicates that the device has been adjusted for heating, while a snowflake represents cooling. A combined heat/cool indicator, if available, shows that the device may automatically change between heating and cooling based on the set temperature and the room temperature. A blow sign indicates that the fan-only mode has been selected, and the air conditioner will continue to blow without heating or cooling the air. The last two modes may not be supported by all air conditioner types and accordingly may not be available in all thermostat models.

③ Adjust your desired fan speed using the fan speed key (🌀) (❻). If the highest fan speed

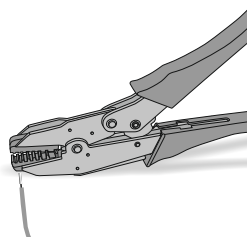
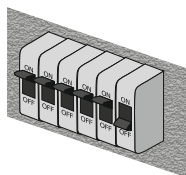
is selected and the fan speed key (10) is pressed again, the device enters the automatic fan speed changeover mode, which determines the most desirable fan speed automatically. To select the fan speed manually again, press the fan speed key. The device will exit this mode and the lowest fan speed will be selected.

④ Use the "+" (16) Or "-" (15) key to increase or decrease the set temperature. 25°C is normally suitable for most people and environments.

Enjoy using your Climaset®.

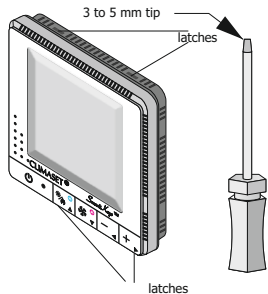
## Installing the device easily

The instructions below have been prepared to assist you in the installation of the device. Please read the instructions thoroughly and carefully before installing the device. Following all the steps as described guarantees your safety and the functionality and endurance of the thermostat and air conditioner.

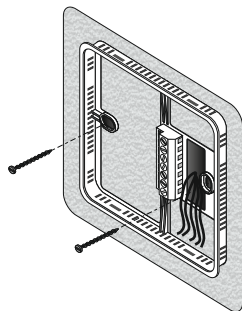


① Turn off the respective circuit breaker. Do not try to install the device while the circuit breaker is on. It may not only put your safety at risk but also the sparks produced while securing the wires may shorten the life of some components within the device.

② Use a crimping tool to secure the wire ferrules supplied with the device on the wires to prepare them to be screwed into the terminals. The best wire size is AWG16 (1.5 mm diameter), but wires up to AWG12 (2.5 mm diameter) can also be used in the thermostat terminals.

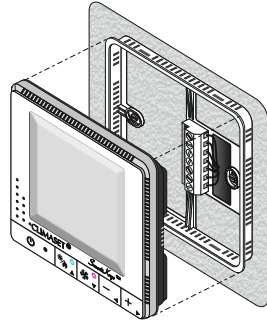
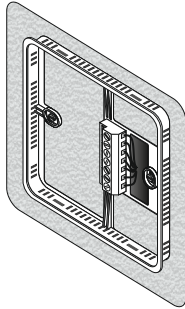


③ Release the back wall mounting plate. There are four latches, as illustrated in the figure, two at the top and two at the bottom of the thermostat. Use a screwdriver with a tip between 3 and 5 mm to gently release them. After releasing each of the latches, pull the respective device corner a little to keep the latch from snapping in again. Pull the device straight out from the back mounting plate after releasing all four latches.



④ Position the mounting plate on the wall. Use a pencil to mark the mounting holes. Remove the plate from the wall and drill 3/16" holes in the wall. Tap anchors into the drilled holes. Reposition the plate and loosely insert two mounting screws in the holes. Level the plate for appearance. Tighten the mounting screws.

✍ You may also use it over a standard 60x60x40 mm conduit box. The screw holes match the holes of the conduit box and cover the box completely.



⑤ **Wiring techniques:** The function of the wires and their respective positions in the thermostat terminals vary based on type of air conditioner and thermostat. The proper wiring of the device is essential in its functionality. You may find proper wiring techniques for several types of air conditioners and thermostats in Appendix B. Please match the thermostat carefully with your air conditioner and follow the wiring instructions as illustrated.

⑥ **Mounting the unit:** Hold the thermostat face parallel to the wall surface. Do not incline the thermostat face. Match the needles on the back of the thermostat with the holes on the terminals of the mounting plate. push the thermostat gently over the needles until the latches snap closed.

⑦ **Turn on the circuit breaker.** The device will be operational.

## Appendix A. Miniature circuit breaker (MCB) selection guide

The following table provides a guideline to select the proper type of miniature circuit breaker to protect your air conditioner and therefore your thermostat. The nominal rating of the proper circuit breaker has been estimated based on the air handling capacity of the air conditioner. If the specified type of circuit breaker in the air conditioner catalogue differs from what is specified here, it overrules the following table. The specified type of circuit breaker proposed by the air conditioner manufacturer should be used.

✍ Always use Type C miniature circuit breakers. Type C has been assigned for inductive loads, such as the load of an electro motor.

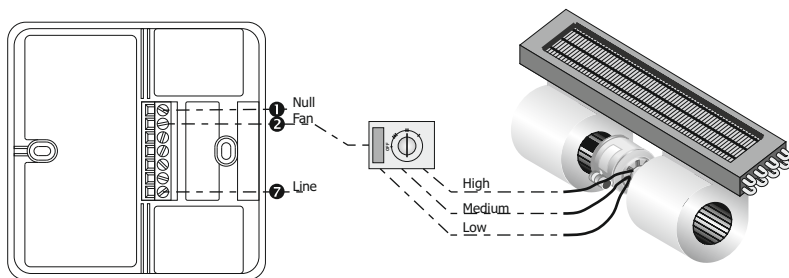
Air handling capacity (CFM)	Nominal rating (A)
200	1
300	1
400	1
600	1
800	2
1000	2
1200	3
1400	3
1600	4
1800	4
2000	4



## Appendix B. Thermostat selection guide and wiring diagrams

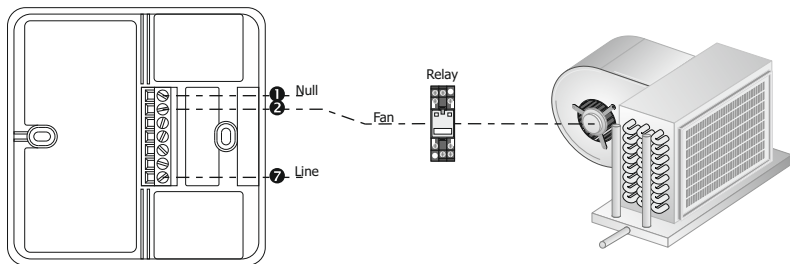
Air conditioner type: Vertical room fan coil

Appropriate thermostat: **Prossimo 3100**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	Do not connect	-	-
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

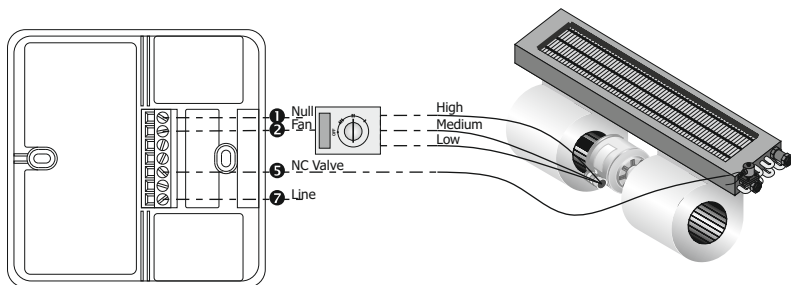
Air conditioner type: Single-speed ducted fan coil  
 Appropriate thermostat: **Prossimo 3100**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	Do not connect	-	-
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Two-pipe vertical room fan coil with on/off normally closed valve

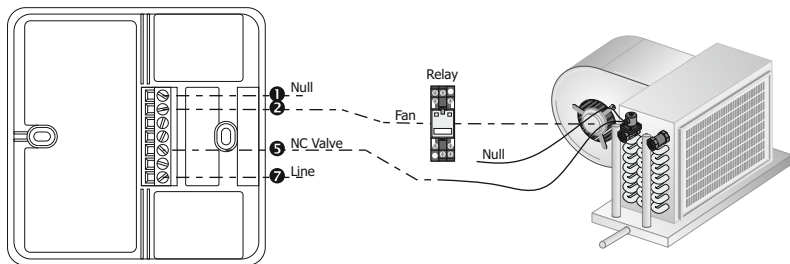
Appropriate thermostat: **Prossimo 3110A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	To normally closed valve	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Single-speed, two-pipe ducted fan coil with on/off normally closed valve

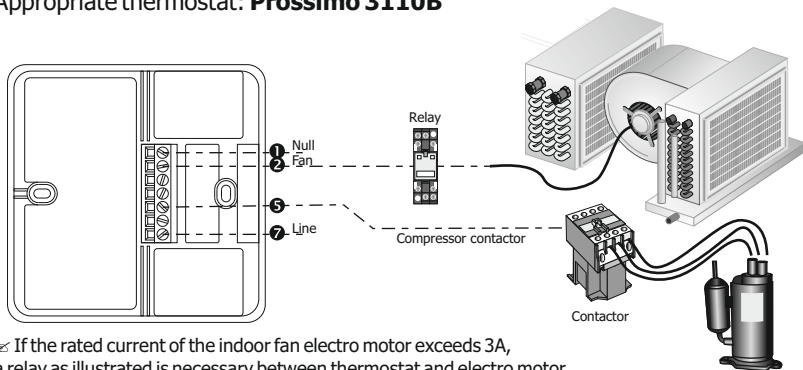
Appropriate thermostat: **Prossimo 3110A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	To normally closed valve	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Single-speed ducted split equipped with hot water coil for heating

Appropriate thermostat: **Prossimo 3110B**

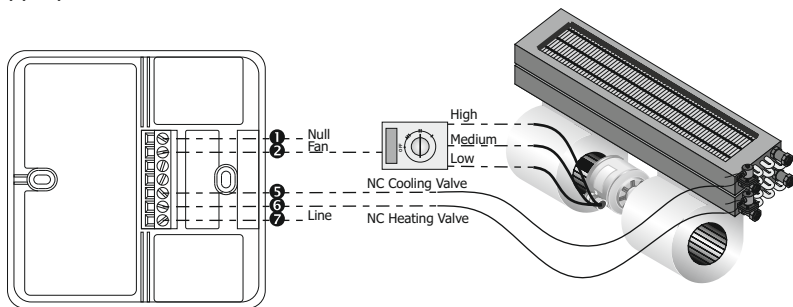


⚠ If the rated current of the indoor fan electro motor exceeds 3A, a relay as illustrated is necessary between thermostat and electro motor.

Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Four-pipe vertical room fan coil with two on/off normally closed valves

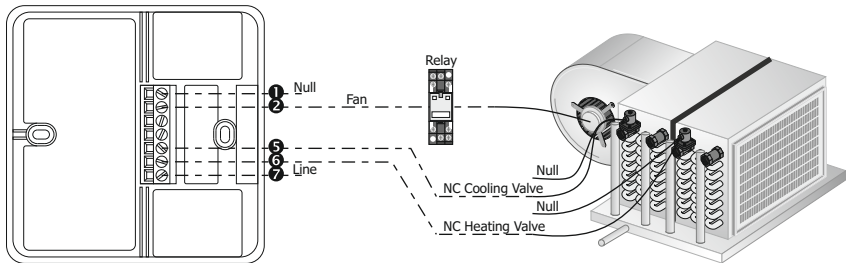
Appropriate thermostat: **Prossimo 3111A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	To N/C cooling valve	Output	AC 220V / 24V 50Hz
6	To N/C heating valve	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Four-pipe, single-speed, ducted fan coil with two on/off normally closed valves

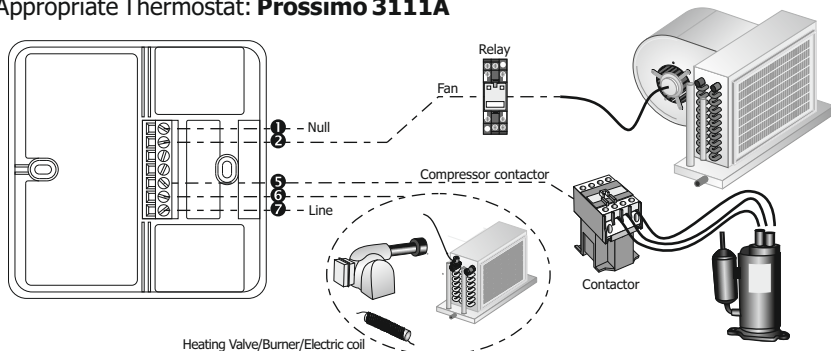
Appropriate thermostat: **Prossimo 3111A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	To N/C cooling valve	Output	AC 220V / 24V 50Hz
6	To N/C heating valve	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Single-speed ducted split or packaged air conditioner unit equipped with hot water coil with normally closed valve/ electric coil / gas burner for heating

Appropriate Thermostat: **Prossimo 3111A**

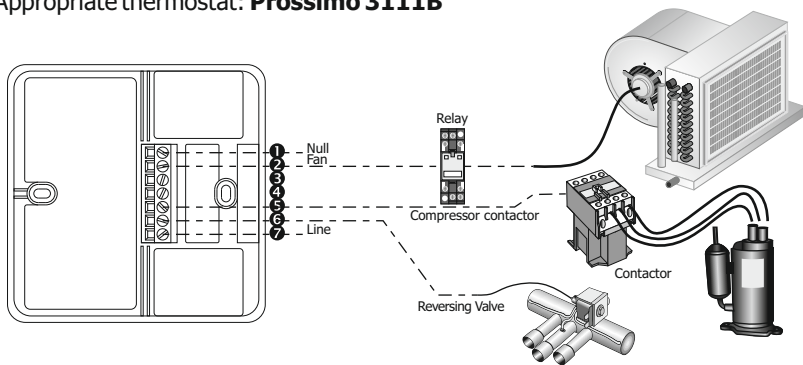


Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	To valve/electric coil relay/gas burner controller	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz



Air conditioner type: Single-speed ducted split or packaged air conditioner unit with reversing valve for heating

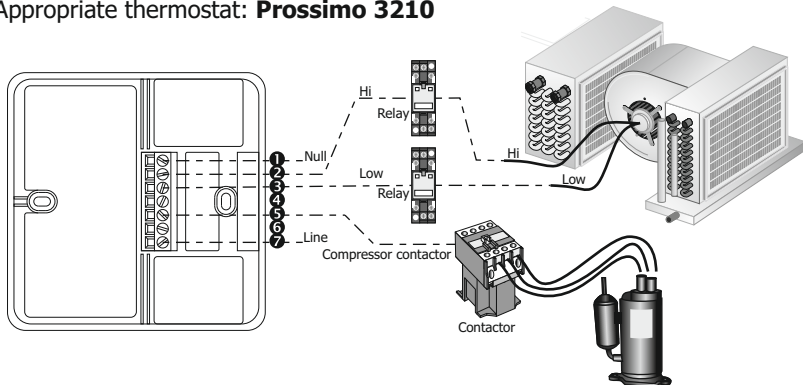
Appropriate thermostat: **Prossimo 3111B**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	To fan speed selector	Output	AC 220V / 24V 50Hz
3	Do not connect	-	-
4	Do not connect	-	-
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	To reversing valve	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: 2-speed ducted split or packaged air conditioner equipped with hot water coil for heating

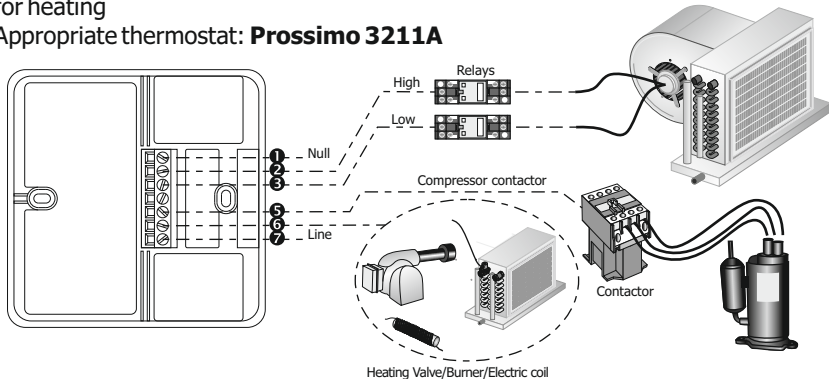
Appropriate thermostat: **Prossimo 3210**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan low	Output	AC 220V / 24V 50Hz
4	Do not connect	-	-
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: 2-speed ducted split or packaged air conditioner unit equipped with hot water coil with normally closed valve/ electric coil / gas burner for heating

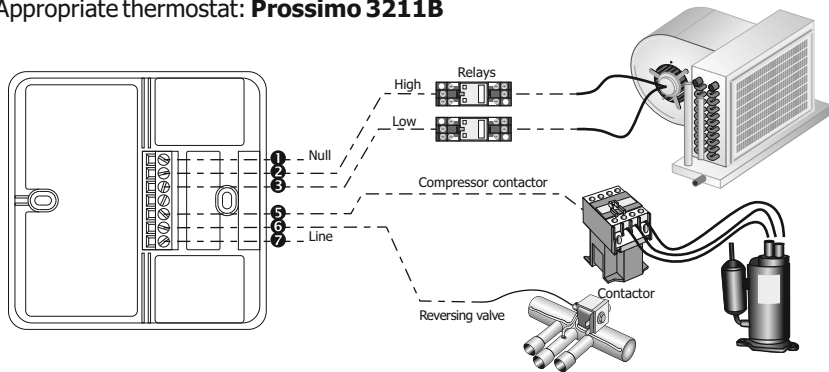
Appropriate thermostat: **Prossimo 3211A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan low	Output	AC 220V / 24V 50Hz
4	Do not connect	-	-
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	To valve/electric coil relay/gas burner controller	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

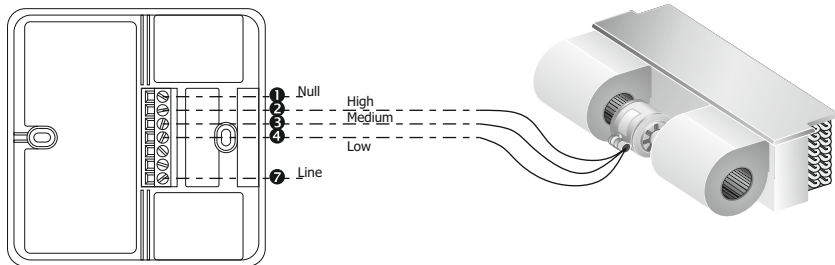
Air conditioner type: 2-speed ducted split or packaged air conditioner unit with reversing valve for heating

Appropriate thermostat: **Prossimo 3211B**



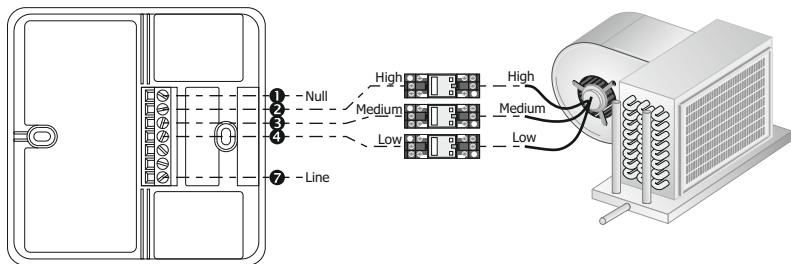
Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan low	Output	AC 220V / 24V 50Hz
4	Do not connect	-	-
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	To reversing valve	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: 3-speed horizontal room fan coil  
 Appropriate thermostat: **Prossimo 3300**



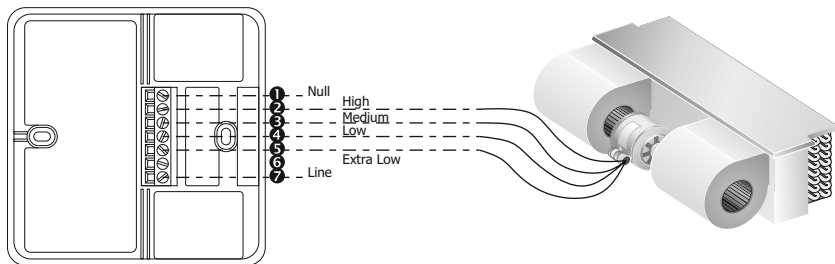
Terminal number	Description	Input/Output	Electrical characteristics
1	Line	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	Do not connect	-	-
6	Do not connect	-	-
7	Null	Input	AC 220V / 24V 50Hz

Air conditioner type: 3-speed ducted fan coil  
 Appropriate thermostat: **Prossimo 3300**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	Do not connect	-	-
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

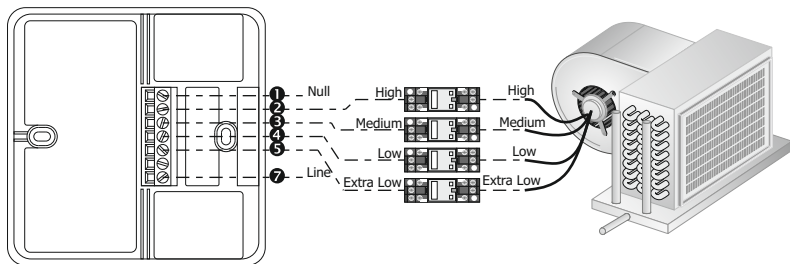
Air conditioner type: 4-speed horizontal room fan coil  
 Appropriate thermostat: **Prossimo 3400**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	Fan extra low	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: 4-speed ducted fan coil

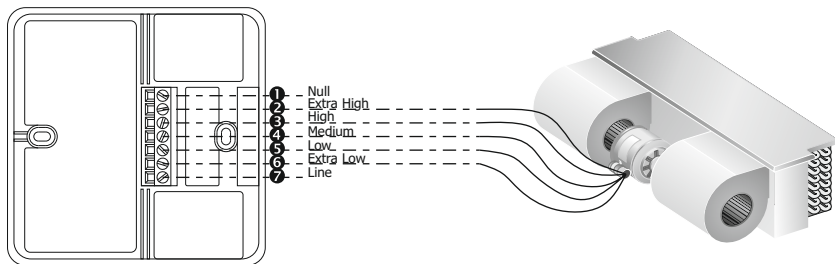
Appropriate thermostat: **Prossimo 3400**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	Fan extra low	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz



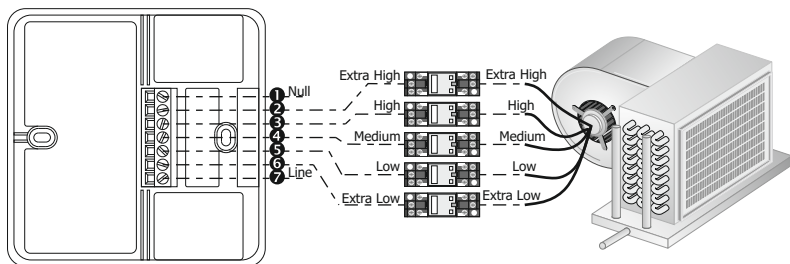
Air conditioner type: 5-speed horizontal room fan coil  
 Appropriate thermostat: **Prossimo 3500**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan extra high	Output	AC 220V / 24V 50Hz
3	Fan high	Output	AC 220V / 24V 50Hz
4	Fan medium	Output	AC 220V / 24V 50Hz
5	Fan low	Output	AC 220V / 24V 50Hz
6	Fan extra low	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: 5-speed ducted fan coil

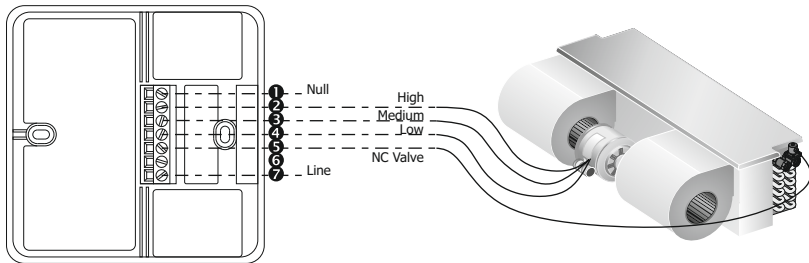
Appropriate thermostat: **Prossimo 3500**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan extra high	Output	AC 220V / 24V 50Hz
3	Fan high	Output	AC 220V / 24V 50Hz
4	Fan medium	Output	AC 220V / 24V 50Hz
5	Fan low	Output	AC 220V / 24V 50Hz
6	Fan extra low	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

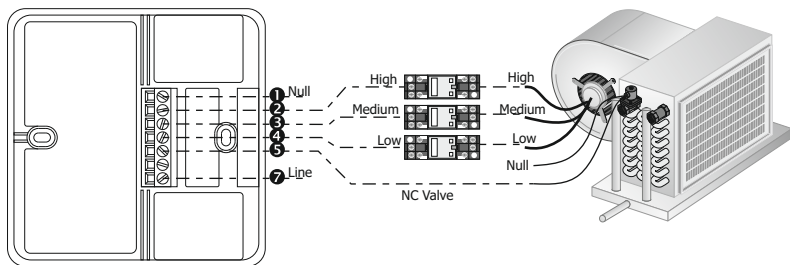
Air conditioner type: 3-speed horizontal room fan coil with on/off normally closed valve

Appropriate thermostat: **Prossimo 3310A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	To normally closed valve	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

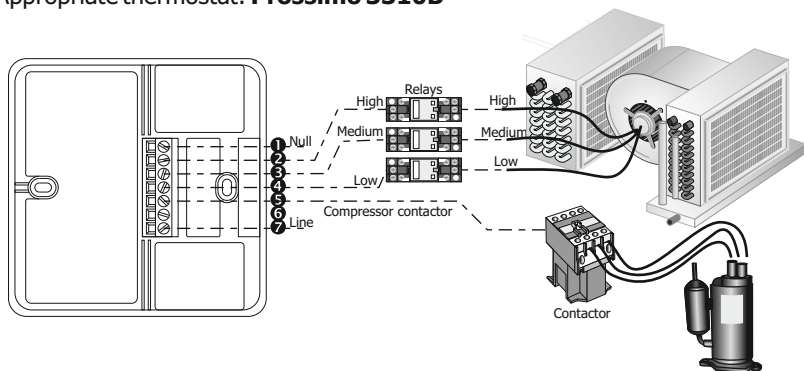
Air conditioner type: 3-speed ducted fan coil with on/off normally closed valve  
 Appropriate thermostat: **Prossimo 3310A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	To normally closed valve	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: 3-speed ducted split or packaged air conditioner equipped with hot water coil for heating

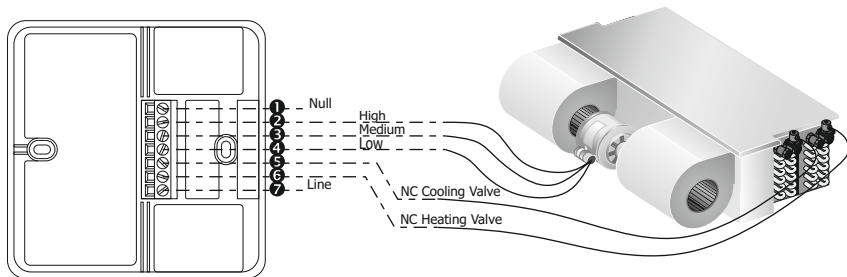
Appropriate thermostat: **Prossimo 3310B**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	Do not connect	-	-
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Four-pipe horizontal room fan coil with two on/off normally closed valves

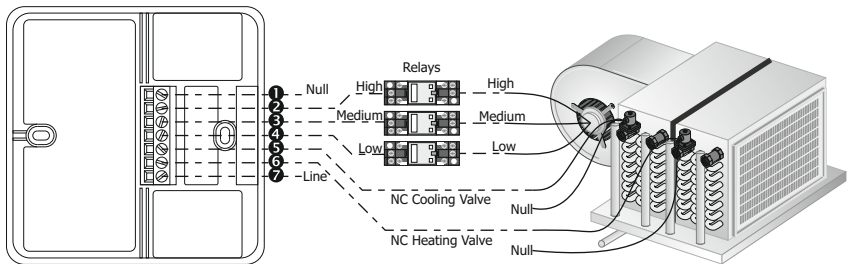
Appropriate thermostat: **Prossimo 3311A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	To N/C cooling valve	Output	AC 220V / 24V 50Hz
6	To N/C heating valve	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Four-pipe, 3-speed, ducted fan coil with two on/off normally closed valves

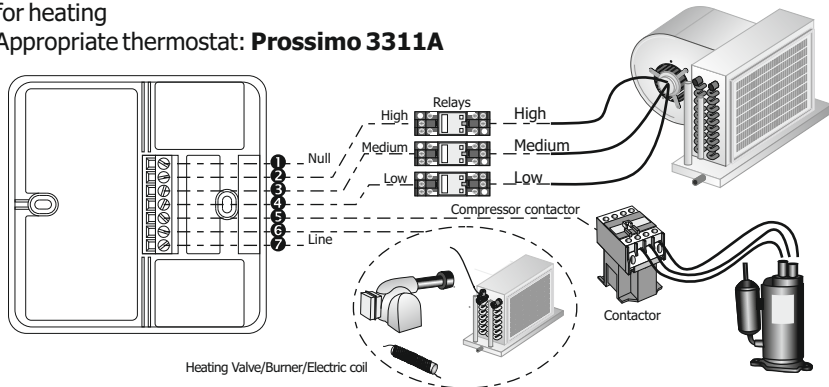
Appropriate thermostat: **Prossimo 3311A**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	To N/C cooling valve	Output	AC 220V / 24V 50Hz
6	To N/C heating valve	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: 3-speed ducted split or packaged air conditioner unit equipped with hot water coil with normally closed valve/ electric coil / gas burner for heating

Appropriate thermostat: **Prossimo 3311A**



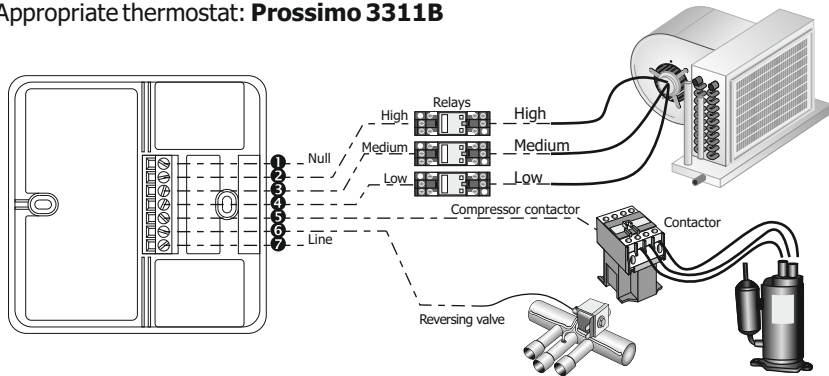
Heating Valve/Burner/Electric coil

Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	To valve/electric coil relay/gas burner controller	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz



Air conditioner type: 3-speed ducted split or packaged air conditioner unit with reversing valve for heating

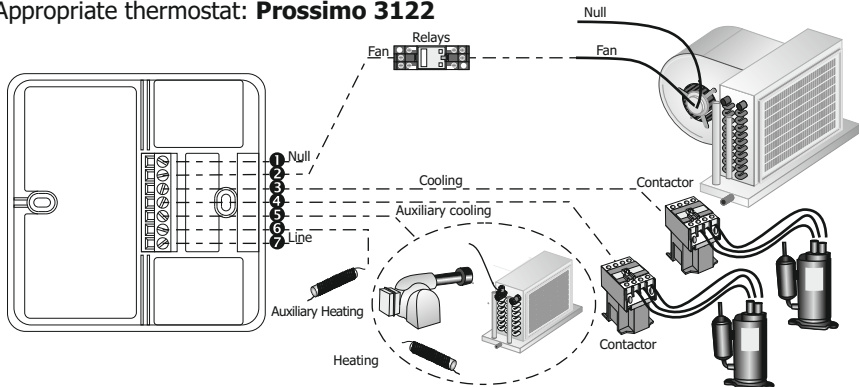
Appropriate thermostat: **Prossimo 3311B**



Terminal number	Description	Input/Output	Electrical characteristics
1	Null	Input	AC 220V / 24V 50Hz
2	Fan high	Output	AC 220V / 24V 50Hz
3	Fan medium	Output	AC 220V / 24V 50Hz
4	Fan low	Output	AC 220V / 24V 50Hz
5	To compressor contactor	Output	AC 220V / 24V 50Hz
6	To reversing valve	Output	AC 220V / 24V 50Hz
7	Line	Input	AC 220V / 24V 50Hz

Air conditioner type: Single-speed refrigerated type packaged air conditioner unit with maximum two stages of cooling and two stage of heating

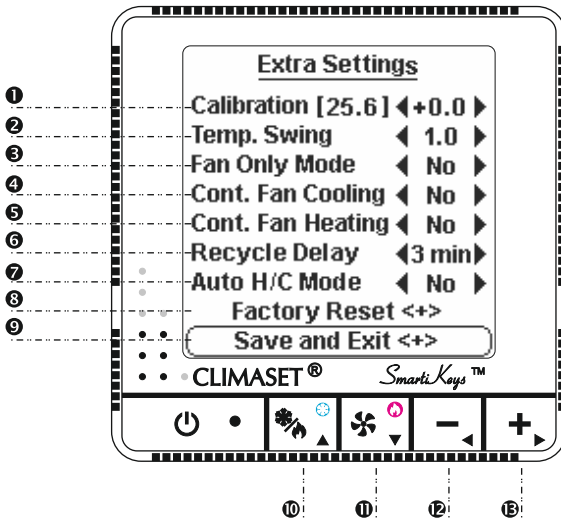
Appropriate thermostat: **Prossimo 3122**



Terminal number	Description	Input/Output	Electrical characteristics
1	Line	Input	AC 220V / 24V 50Hz
2	Fan	Output	AC 220V / 24V 50Hz
3	To primary compressor contactor	Output	AC 220V / 24V 50Hz
4	To auxiliary compressor contactor	Output	AC 220V / 24V 50Hz
5	To primary heating (valve/electric coil relay/gas burner controller)	Output	AC 220V / 24V 50Hz
6	To auxiliary heating	Output	AC 220V / 24V 50Hz
7	Null	Input	AC 220V / 24V 50Hz

## Appendix C. Extra settings

You may enter the Extra Settings screen by holding “▲” (⑩) and “▼” (⑪) simultaneously for a few seconds.



Extra settings are intended to be modified by experts. We do not recommend that you modify these settings unless you have enough knowledge about their effects.

You may navigate through the rows by pressing “▲” (Ⓐ) or “▼” (Ⓑ). Each row displays the settings for its respective parameter. The last two rows are used to restore factory settings and save and exit.

**❶ Calibration:** Use this if you feel that the thermostat temperature differs from your room temperature. The thermostat is precisely calibrated in the factory, but as the temperature in thermostat position may differ by a few degrees centigrade in some locations in your room, you may calibrate the device to match a particular location. Use the “+” (Ⓒ) or “-” (Ⓓ) key to change the sensed temperature.

**❷ Temperature swing:** This is the difference between the room and the set temperature (Refer to “Screen elements and adjustments”) at which the device switches on unless the device is in standby mode. You may set it between 0.5°C and 2.0°C.

**❸ Fan only mode:** If you enable this option, you can select the fan-only operation mode by pressing the heat/cool changeover key on the main screen. In this mode, the fan blows without heating or cooling the air.

**❹ Continuous fan operation (cooling):** With this option, the fan never switches off, but the thermostat controls the temperature by turning on or off the cooling component, such as a compressor or valve, etc. Use the “+” (Ⓒ) or “-” (Ⓓ) key to set its value to “Yes” or “No.” This option is not supported by all air conditioners and all thermostat models.

**❺ Continuous fan operation (heating):** This has the same function as above but in heating mode.

**6 Recycle delay:** If the thermostat directly commands a compressor, you need to set at least a 3-minute compressor restart delay to prevent damage to the compressor electro motor from successive restarts. The compressor cannot restart instantly after being switched off. The delay is necessary to equalize the pressure over the compressor.

**7 Automatic heating or cooling changeover mode:** Many air conditioners are designed to perform cooling in a season and heating in another season. Several tasks must be performed manually to switch from heating to cooling or vice versa. However, some air conditioners can perform heating or cooling at the same time. If yours is one of them and your thermostat supports this mode, you may enable this option. By comparing your set point with the room temperature, the thermostat itself decides to perform heating or cooling.

**8 Restore factory settings:** Use the "+" (Ⓢ) key on this row to restore all the above settings to their initial values as set by the factory. It is useful when you cannot remember the changes you made and you are not satisfied by them.

**9 Save and exit:** Use this setting to save all changes and return to the main screen. Select this option by pressing the "+" key.

✍ You may not have all the options listed if your air conditioner or your thermostat does not support them.

## Appendix D. Troubleshooting

Issue	Action
The display has vanished	<p>Check whether the circuit breaker is on and the fuse inside the thermostat is not blown. In any of these cases, we recommend that your air conditioner and your wiring be checked by a technician.</p> <p>Note for the technician: Turn off the circuit breaker. Detach the wires from the thermostat. Shorten the phase wire with one of the wires except the null. Turn on MCB and measure the current. Repeat the operation for each wire. Compare the results with the specified current in the air conditioner catalogue. Make sure that the air conditioner has no problem. Turn the circuit breaker off. Replace the fuse with the same type if it is blown (refer to Appendix E. for fuse ratings). Never bridge the fuse or replace it with another type of fuses. Turn the circuit breaker on again. If the circuit breaker is turned off again automatically, or if the fuse blows again, contact your local customer service provider.</p>

Issue	Action
The air conditioner does not start	<ol style="list-style-type: none"><li>1. Check whether the power icon indicates the Operational mode.</li><li>2. Check whether you have selected heating or cooling appropriately.</li><li>3. Check whether the temperature difference is above the temperature swing which by default is 1°C. Check Extra Settings screen for the swing temperature.</li></ol>
The air conditioner is always running	<ol style="list-style-type: none"><li>1. Check whether you have selected the heating or cooling mode appropriately.</li><li>2. Check whether your desired temperature is too low or too high. The best value for desired temperature is about 25°C.</li><li>3. It is possible that your air conditioner capacity is not enough for your application or that its performance has been reduced because of some technical problems.</li></ol>
Burnt fuse	Have a professional check the wiring. Always replace the fuse with one with the same ampere rating and the same I <sup>2</sup> t. Never bridge a fuse with a wire or other conducting material.

☒ Contact your local customer service provider if the problem is not resolved or is not listed here.

## Appendix E. Technical specifications

Thermostat specifications	Temperature sensitivity	0.1°C
	Backlight	White
	Display length	56 mm / 2.2 inches
	Display width	56 mm / 2.2 inches
	Width	90 mm / 3.5 inches
	Length	90 mm / 3.5 inches
Operating conditions	Height	26 mm / 1 inch
	Temperature	0°C to 70°C
Fuse specifications	Humidity	5% to 90% non-Condensing
	Current rating	3.15 A
	Nominal melting I <sup>2</sup> t	80 A <sup>2</sup> /S
Optional remote controller specifications	Max. effective distance	8 m
	Max. viewing angle	30°