

Connectair module v1.0 user's guide



Z-Wave Plus certified

Introduction

Dear Customer,

Welcome to the ConvectAir family.

Congratulations on your new smart device and thanks for trusting and considering us. We assure you that you've made the right choice.

Please read the directions in the user guide to make your product experience a smart one.

This user guide provides an introduction to the connectair and its functions. The guide also contains the instruction and information related to the ConvectAir Connectair.

Overview

The ConvectAir Connectair is a device for controlling the heating system inside the building. It allows the user to maximize the energy savings and provides the comfort by scheduling periods of heating and setbacks energy-saving temperature wireless.

The Connectair allows the user to set the different modes of heating system:

1. Enabling OFF mode (All modes such as comfort, economy, un-frost and OFF modes are possible)
2. Disabling OFF mode (Only comfort, economy and un-frost modes are possible)

The Connectair Module is designed to be mounted on the control panel of all the ConvectAir heaters.

ConvectAir

Efficiency - Comfort - Innovation

Established in 1983, North America, following the signing of an agreement between France and Quebec. Serving a market that is confronted with complex energy situations, throughout the years. France has developed an expertise that balances comfort and energy economies. Since the agreement, ConvectAir has implemented everything necessary to translate this energy expertise for the North American market and offer the heating solutions that meet user's comfort and energy needs.

Vision

Connectair emerged from a desire to offer safe, comfortable, and high-performance electric heaters, both on an energy efficiency and aesthetic basis. Such factors are therefore inextricably linked to our definition of quality.

Objective

To improve customer's comfort, with full efficiency.

In 2013, ConvectAir heaters received the *France Garantie* distinction, certifying that the entire manufacturing is carried out in France. Such production quality control enables to guarantee the highest quality and performance of the ConvectAir heaters.

ConvectAir thermostat – HVAC

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Convectair module

The Convectair Z-Wave thermostat lets you use your phone and make changes to the temperature of the place it is installed in by increasing or decreasing the temperature using different modes.

The Thermostat (HVAC) Device Type is intended by thermostats that support set points and modes. It is typically used for all mainstream thermostats that can support e.g. Heating, Cooling, and Fans.

Device Type	identifiers
Thermostat - HVAC	GENERIC_TYPE_THERMOSTAT
	SPECIFIC_TYPE_THERMOSTAT_GENERAL_V2

What role type to use the thermostat

The ConvectAir thermostat uses the following role types:

Role Type	Identifiers
Always On Slave (AOS)	ROLE_TYPE_SLAVE_ALWAYS_ON

Modes of operation

The Functions of the ConvectAir HG connectair is listed below:

1. OFF mode

In the OFF mode, the system will allow to turns off the heater

2. Heat mode



In the heat mode, the user can set their desired room temperature on the heater

3. Energy save heat mode



In the energy save mode, the reduced temperature can be set in the case of absentees or in the night time. It will lower the temperature of 3.0° C with respect to the comfort position

4. Un-frost mode



In the un-frost mode, the room temperature is maintained at around 7°C (46° F) for prolonged absences

Note:

"heat" mode is also known as "**comfort**"

Temperature setting

The plus and minus will allow you to increase or decrease the temperature based on the mode selected and the tick will save the selected temperature.

Basic commands consideration

The **Convectair Thermostat** HVAC Device Type implements:

- Basic Set (Value = 0x00) = Set Energy Saving Mode
- Basic Set (Value = 0xFF) = Set Comfort Mode
- Basic Get = Get Report
- Basic Report (Value = 0x00) = Report Energy Saving Mode
- Basic Report (Value = 0xFF) = Report Comfort Mode

Note

we are required to call the modes "**Comfort Mode**" and "**Energy Saving Mode**" in basic commands support

Features & specifications

The main features of the Convector Connectair module are:

Features	Description
Anti-hacker button	When enabled, it avoids the device to be able to remotely turn off, which could cost a lot in possible damage during freezing weather.
Z-wave enabled	Connect this module to a Z-Wave controller. It will give you the opportunity to manage this device remotely, securely and in a mesh network configuration. Really convenient when your Wi-Fi network can't reach everywhere and safely. • Will light on the LED when not added to the network • Will switch off the LED when added
Manual control	In case your network is not working or just because you are closer to the device, just control the temperature from the plus and minus button on it.

The general specification of the connectair is listed below

Specifications	Values
Dimensions	
Color	White
Weight	
Materials used	ABS
Power requirements	220vAC - 240vAC (as per the heater specification)
Environmental	Operating temperature • -10 ° to + 55 ° Celsius • -14 ° to + 131 ° Fahrenheit • at 95% of relative humidity
	Storage Temperature • -20 ° à + 70 ° Celsius • -4 ° à + 158 ° Fahrenheit • at 95% of relative humidity

Recommendations

Using the Mobile App and the Web App

You can find how to use the Mobile App and the Web App on the [Mobile and Web App user guide](#).

Prerequisites

To control your environment, you will need access to your property through the free, cross-platform Connectair app. It is available in 3 formats;

Web

<https://connectair.io>

Android

Android 6 & +

iOS

iOS 10 & +

- [Google Chrome](#)
- [Firefox](#)
- [Microsoft Internet Explorer](#)
- [Microsoft Edge](#)
- [Apple Safari](#)

Features by application

	Feature	Screen App	Mobile & Web Apps
1	Wi-Fi configuration page	✓	
2	User account creation		✓
3	Login to the user account		✓
4	Access to different properties		✓
5	Operations on • electronics • scenarios	✓	✓
6	Adding controllers		✓
7	Adding devices		✓
8	Setting • Users • Properties • Devices • Scenarios		✓
9	Screen settings	✓	
10	Notifications displayed	✓	✓

Adding or removing the Connectair module on a Z-Wave network

Each Z-Wave controller has its own way to put it into "add" mode. Please refer to the manual of the controller's manufacturer to know how to start the process.

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers.

All non-battery operated nodes within the network will act as repeaters regardless of the vendor to increase the reliability of the network.

How to add the Connectair module on a Z-Wave network

1. **Start the adding process** on the controller side
2. Once started, start the adding process on the Connectair module by **pressing 3 times the Z-Wave button**, located between the plus and the minus button, using the included tool.
3. When added, the **LED will turn off**

Each Z-Wave controller has its way to put it into "remove" mode. Please refer to the manual of the controller's manufacturer to know how to start the process.

How to remove the Connectair module on a Z-Wave network

1. **Start the removing process** on the controller side
2. Once started, put the device in "learn mode" by **pressing 3 times on the Z-Wave button**, located between the plus and the minus button, using the included tool.
3. When removed, the **LED will turn on**

Maintenance

Maintenance

The ConvectAir Connectair requires little maintenance. However, it is recommended to test and clean the system regularly.

- Clean the system weekly
- Clean the system without disturbing activities

Care and cleaning

- The Connectair should be cleaned carefully with a soft and dry cloth
- Do not spill water or any other liquids on your system
- Do not clean the system or components with water or any liquid
- It is recommended to clean the touchscreen weekly

Handling and storage

The following are the handling and storage instructions for the Connectair:

- Please the Connectair to the appropriate slot provided in the heater
- Ensure that there are no obstacles in the slot before the placement of the Connectair

Security level

The connectair module is a security-enabled Z-Wave Plus product. It uses encrypted Z-Wave Plus messages to communicate with other Security Enabled Z-Wave Plus devices. To use this module correctly a Z-Wave security enabled controller should be used.

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers.
All non-battery operated nodes within the network will act as repeaters regardless of the vendor to increase the reliability of the network.

Supported CC's and their security levels

All command classes

5E - COMMAND_CLASS_ZWAVEPLUS_INFO
 85 - COMMAND_CLASS_ASSOCIATION
 8E - COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION
 59 - COMMAND_CLASS_ASSOCIATION_GRP_INFO
 55 - COMMAND_CLASS_TRANSPORT_SERVICE
 86 - COMMAND_CLASS_VERSION
 72 - COMMAND_CLASS_MANUFACTURER_SPECIFIC
 5A - COMMAND_CLASS_DEVICE_RESET_LOCALLY
 73 - COMMAND_CLASS_POWERLEVEL
 40 - COMMAND_CLASS_THERMOSTAT_MODE
 43 - COMMAND_CLASS_THERMOSTAT_SETPOINT
 98 - COMMAND_CLASS_SECURITY
 9F - COMMAND_CLASS_SECURITY_2
 6C - COMMAND_CLASS_SUPERVISION

When included securely, these command classes are supported secure only

86 - COMMAND_CLASS_VERSION
 85 - COMMAND_CLASS_ASSOCIATION
 8E - COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION
 59 - COMMAND_CLASS_ASSOCIATION_GRP_INFO
 72 - COMMAND_CLASS_MANUFACTURER_SPECIFIC
 5A - COMMAND_CLASS_DEVICE_RESET_LOCALLY
 73 - COMMAND_CLASS_POWERLEVEL
 40 - COMMAND_CLASS_THERMOSTAT_MODE
 43 - COMMAND_CLASS_THERMOSTAT_SETPOINT
 6C - COMMAND_CLASS_SUPERVISION

Association CC group available in the product

For association, there is one group, Lifeline

- It can have up to 5 devices
- It receives:
 - Device Reset Locally Notification
 - Thermostat Setpoint Report
 - Thermostat Mode Report

Basic Set command

No action takes place when the basic command class needs a response. Get requests are ignored but in some cases when it comes to legacy device support (older Z-Wave sensors), basic set commands are used for sensor activation events.

Factory defaults reset

Please use this procedure only when the network primary controller is missing or otherwise inoperable

- Hold the Z-Wave button for about ten seconds
- If it was included, the LED will turn back on when reset is done

Warranty & limitations

ConvectAir warrants to the original purchaser that the products delivered hereunder shall be free from defects in materials and workmanship for a period of twelve (12) months from the date of purchase.

The Company within this period, at its option, will repair or replace free of charge any product or part of the product found (except batteries), at the inspection of the Company, will be so defective, and will return the repaired or replaced product to the buyer at the expense of the company. For warranty service and shipping instructions, contact Connectair Inc. at the phone number listed below. The appliances must be sent at the expense of the owner and must be accompanied by a declaration of default and proof of purchase.

This guarantee is conditioned by:

- The Company must be notified within one year from the date of purchase and have the opportunity to inspect, by return of any product alleged to be defective, free from any privileges and charges to the Company or its distributor. ; and
- The product must not have been abused, misused, or poorly maintained, maintained and / or repaired during this period; and
- Such a defect was not caused by corrosion or exposure to normal wear and tear.

THE COMPANY MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The maximum liability of the Company hereunder is limited to the purchase price of the product. In no event shall the Company be liable for indirect, incidental or special damages of any kind resulting from the sale or use of the product, whether by contract, tort, strict liability or otherwise.

Note: Some states and countries do not allow limitations on incidental or consequential damages or the duration of an implied warranty, so the above limitations may not apply in their entirety. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and from country to country.

For warranty service, call ConvectAir