

Smarther AC with Netatmo connected thermostat

XW8003 - XM8003 - XG8003

0 490 43 - 0 490 44

XW8003W - 0 490 45

Description

Smarther AC with Netatmo is the connected thermostat for HVAC systems. It can directly manage a single wall unit thanks to the on-board IR emitter, while with the use of the dedicated accessories, it can easily handle more extended systems with several air conditioning units and Fan Coils.

The device can be used to manually set the required temperature level, the fan speed and Boost mode, which allows to force the switching on of the system for a limited period of time (15, 30 or 45 minutes) irrespective of the set or programmed temperature and the ON OFF function for thermostat switching on and off. It can also display the temperature and humidity measured in the room. When used in conjunction with the Home + Control App, it allows simple and intuitive temperature programming and management.

Thanks to its Wi-Fi connection, Smarther AC with Netatmo can be programmed and controlled remotely. Smarther AC with Netatmo can also be controlled with the Google, Amazon Alexa and Apple HomeKit voice assistants.

**Smarther AC with Netatmo flush mounted version XW8003/XM8003/XG8003/
0 490 43/0 490 44.**

The device is compatible with the Italian (500/503E/502PB), French and British (UA1) standard boxes.

Smarther AC with Netatmo wall mounted version XW8003W/0 490 45.

It can be installed on the wall, using screws and dowels suitable for the installation surface.

You can have up to 10 thermostats in your system.

Depending on the type of installation, a single Smarther AC with Netatmo can control (through RF):

- A) up to 10 connected IR emitter (all with the same communication protocol and located in up to 10 rooms of the Home + Control App). In this case, the Smarther AC on-board IR emitter can be disabled, or it can be used in parallel with the IR emitters for the control of another air conditioning unit.
- B) up to 5 HVAC actuators, provided that they are all in the same room and that the controlled Fan Coils are all of the same type.

Related items

3460IR Connected IR emitter

0 489 10 HVAC actuator

Technical data

Power supply: 110 – 240 Vac, 50/60Hz

Absorption: 2 W max

Maximum cable section: 1 x 1.5mm²

Contact output: 5(2) A

Operating temperature: 5 – 40 °C

Type of activation: 1BU

Pollution level: 2

Rated pulse voltage: 4 kV

Compatible with IR emitter (3460IR)

Compatible with Fancoil Actuator (0 489 10)

Wireless device in compliance with 802.11b/g/n standard, frequency 2.4 – 2.4835 GHz, transmission power < 20 dBm.

WEP/WPA/WPA2 safety protocol. Protocol IPv4.

Ports used from Smarther AC with Netatmo and Home + Control App:

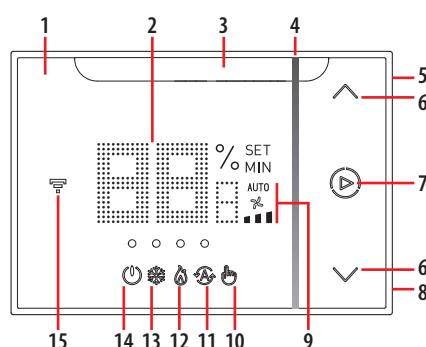
- 25050 TCP - for web traffic and user authentication.

- 80/443 - HTTP/HTTPS

Technology: 2.4 GHz Radiofrequency band (16 channels) - Byte rate: 250 KB/s

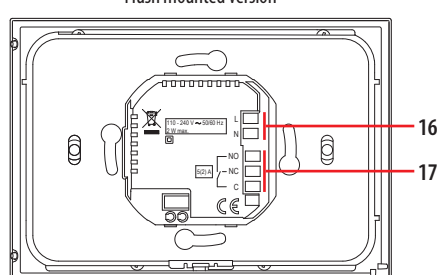
Self healing MESH network with high security level (AES128) according to HA1.2 of IEEE 802.15.4 (LR-WPAN) standard.

Front view

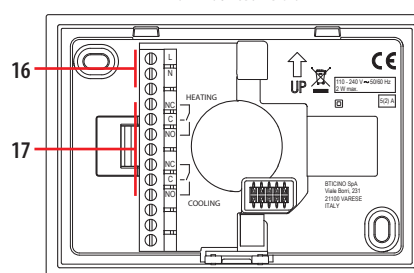


Rear view

Flush mounted version



Wall mounted version



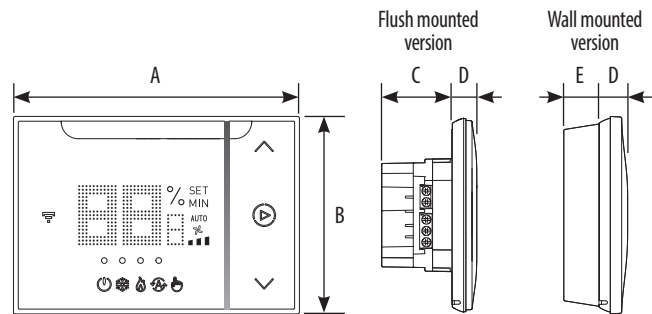
Legend

1. Touch screen display
2. Temperature (*) / humidity display
3. IR emitter
4. Indicator of the time remaining for "Boost" mode operation
5. Wi-Fi connection key and RF settings
6. Keys for temperature setting
7. Two-function key:
 - short pressure for boost mode activation
 - 3" extended pressure for OFF-ON activation (**)
8. Reset key (keep pressed for 10", it restores the factory settings)
9. Air conditioning unit fan or Fan coil speed indicator (automatic/1/2/3)
10. Manual mode indicator
11. Automatic mode indicator
12. Heating indicator
13. Cooling indicator
14. "OFF thermostat" indicator
15. Wi-Fi connection indicator
16. Power supply connection clamps (see diagrams)
17. Connection clamps (future use)

(*) In systems with air conditioning unit, the temperature measured by the Smarther will not be used as reference for switching the system on or off. The reference temperature will be the temperature read by the air conditioning unit, which cannot be displayed on the Smarther or the App.

(**) Available from version FW44

Dimensional data



A	B	C	D	E
126 mm	87 mm	31 mm	13 mm	15.5 mm

Configuration

For device configuration and installation and for any other information, refer to the following instructions or to the documentation available in the on-line catalogue of the device.

Download App



Home + Control

Google Play: it is recommended the use of the latest version of Android with access to Google Play

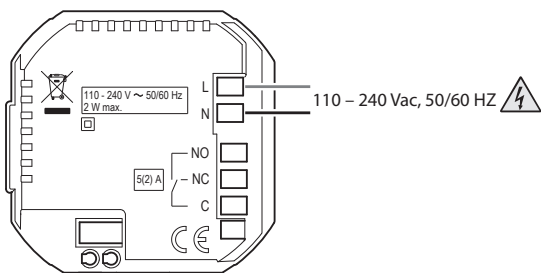


iOS: to control this HomeKit accessory, we recommend the use of the latest version of iOS or iPadOS

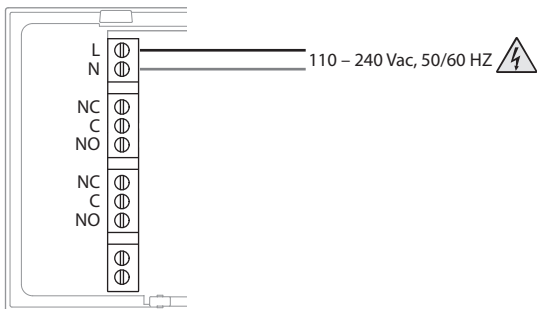


Wiring diagrams

Flush mounted version

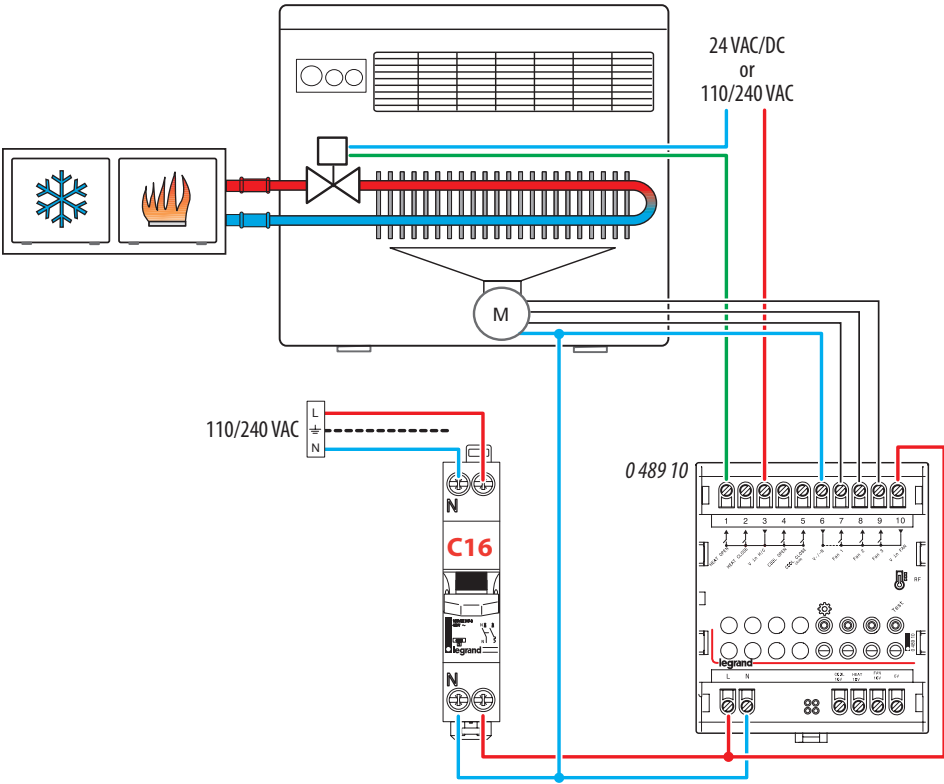


Wall mounted version

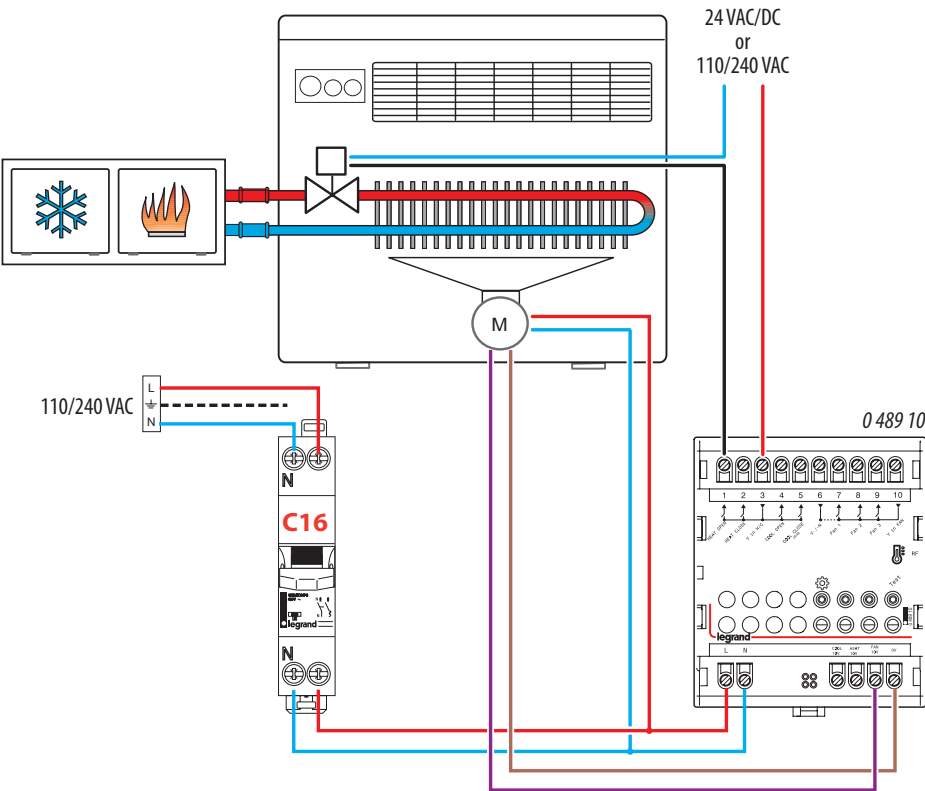


System with 1 x 2-tube fan-coil

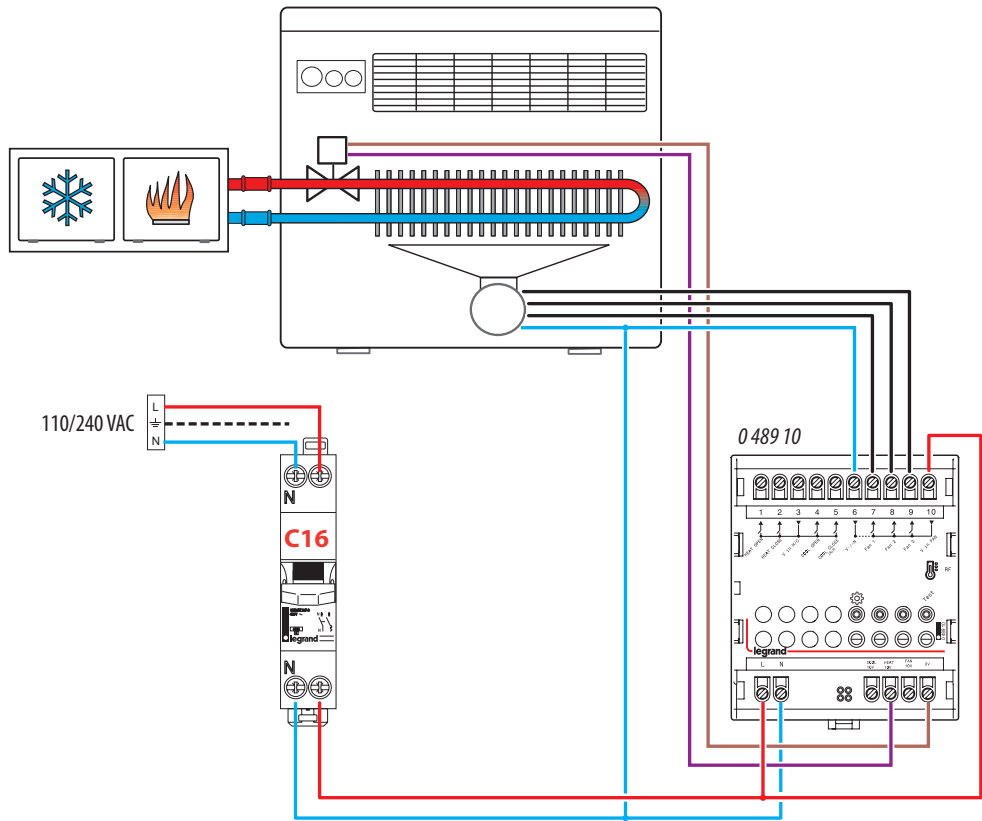
System with On/Off valve, 3-speed fan
Heating-only - cooling-only - heating or cooling with manual switching.



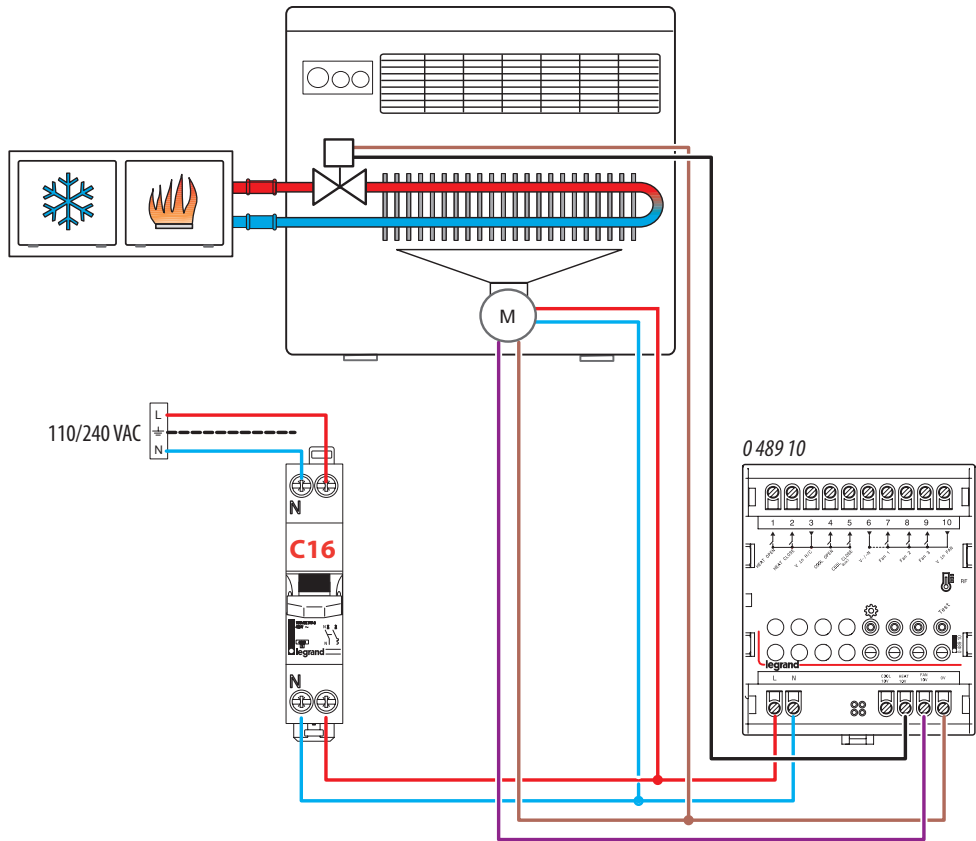
System with On/Off valve, 0-10V fan
Heating-only - cooling-only - heating or cooling with manual switching.



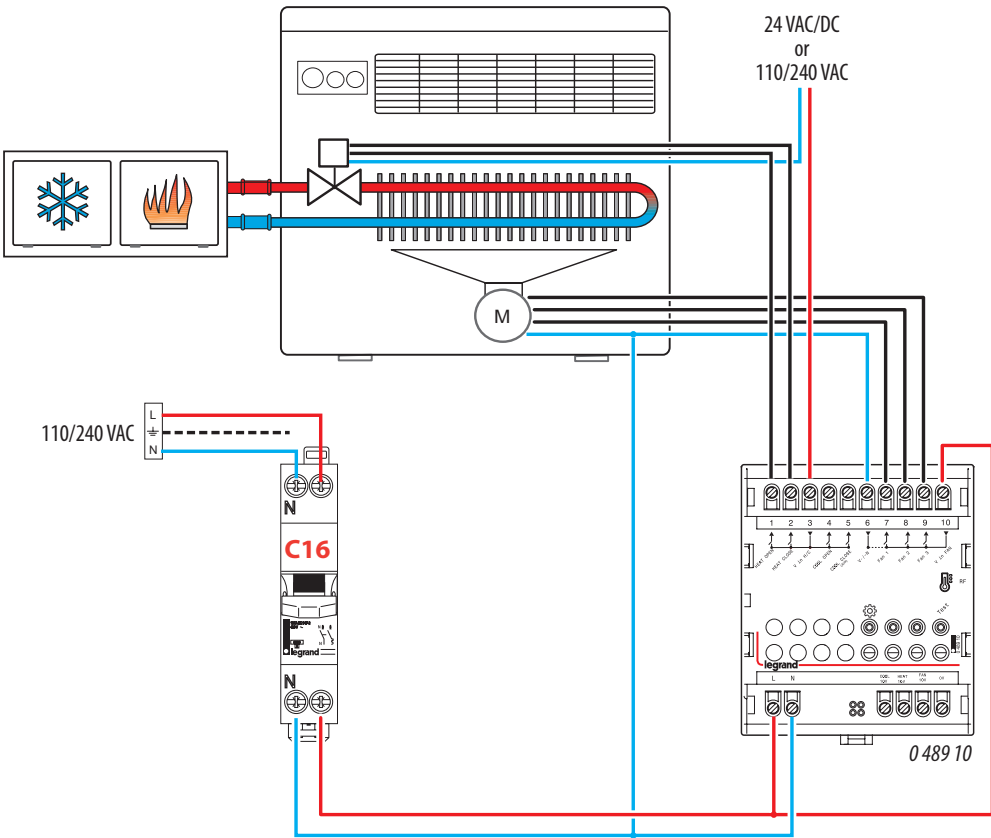
System with 0-10 valve, 3-speed fan
Heating-only - cooling-only - heating or cooling with manual switching.



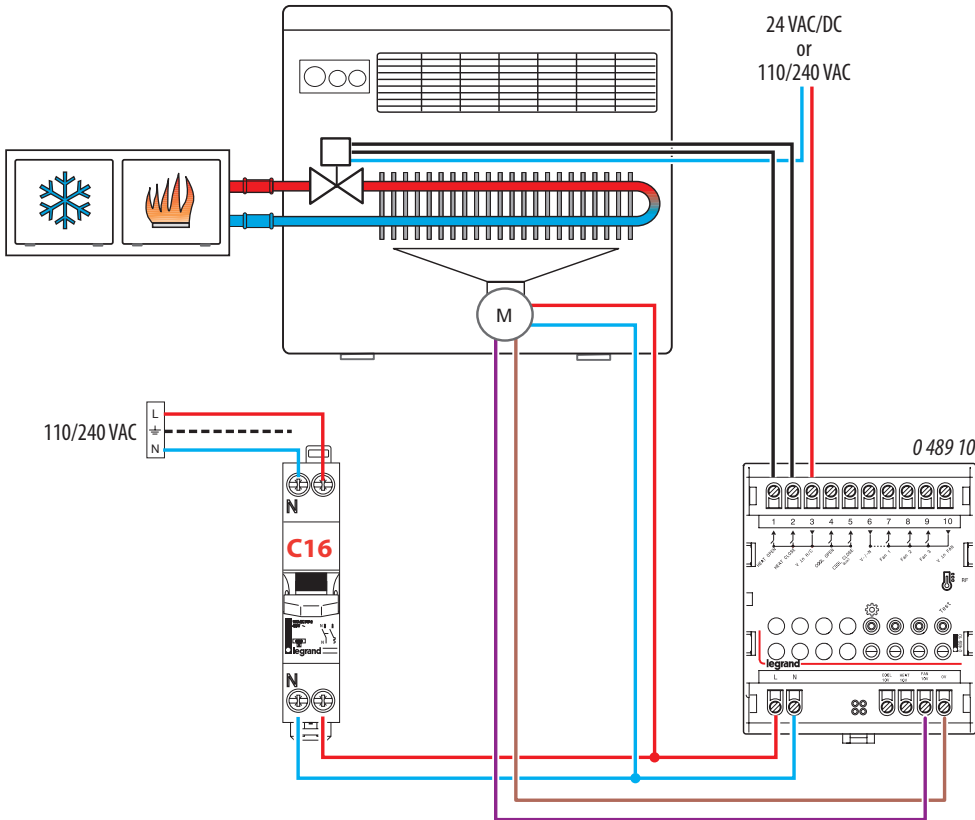
System with 0-10 V valve, 0-10 V fan



System with 3-point valve, 3-speed fan
Heating-only - cooling-only - heating or cooling with manual switching.

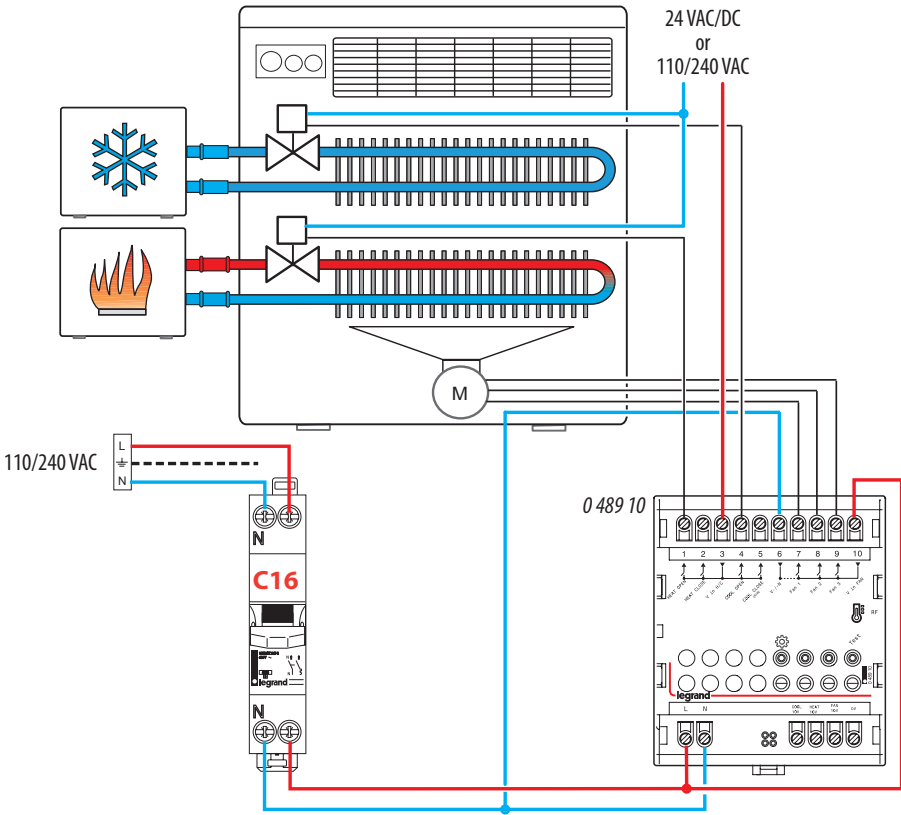


System with 3- points valve, 0-10 V fan

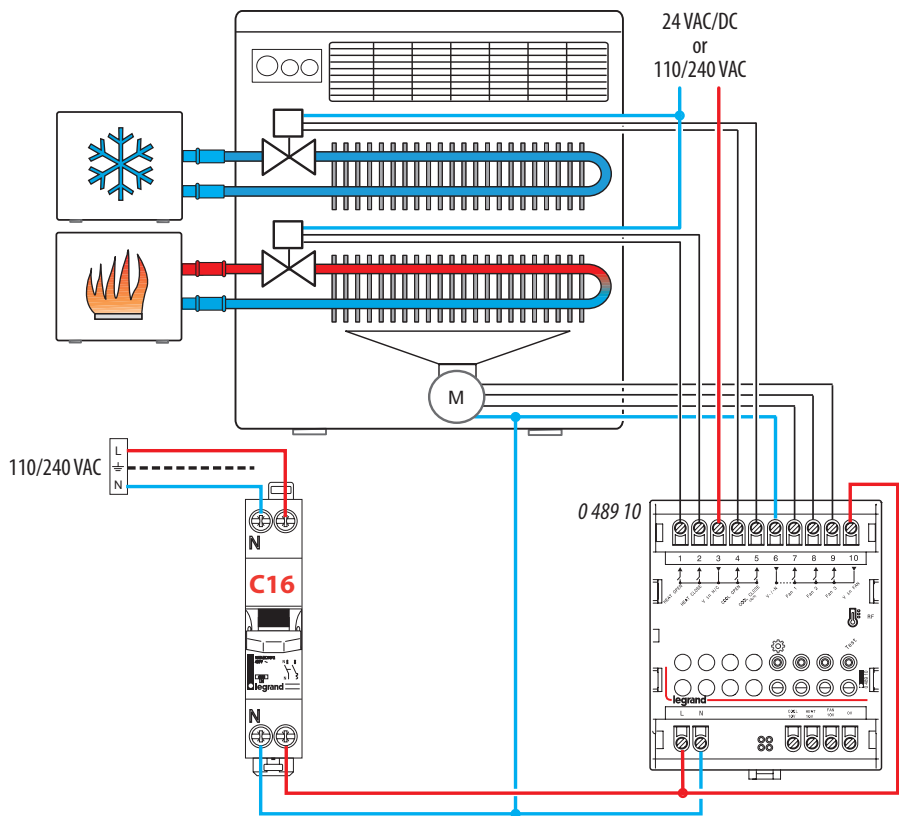


System with 1 x 4-tube fan-coil

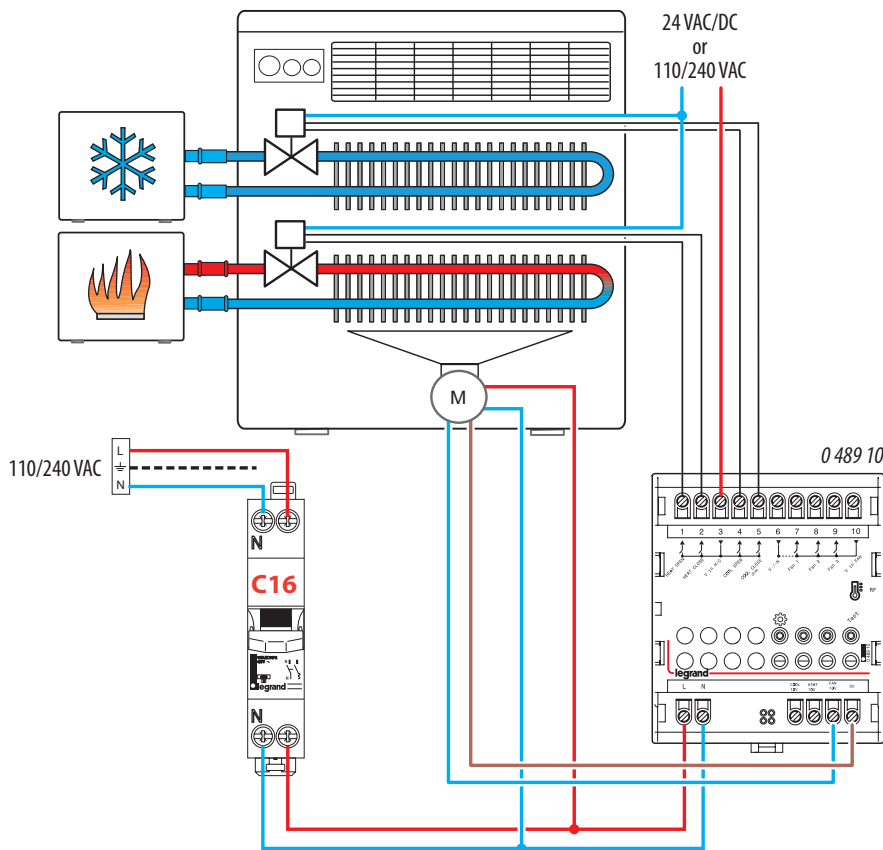
System with 2 On/Off valves, 3-speed fan
Heating or cooling with automatic or manual switching.



Systems with 3-points valves, 3-speed fan



Systems with 3-points valves, 0-10 V fan



Functions

Available functions:

- Management with Home + Control App
- Display and change the temperature
- Display and change the fan speed
- Boost
- Room humidity display
- Compatible with Google Assistant
- Compatible with Alexa
- Compatible with HomeKit

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FreeRTOS

Version 7.0.1

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Apple WAC POSIX Server

Package: WACServer

Version: WAC_POSIX_Server_1.22

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Apple mDNSResponder

Version 765.20.4

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LwIP

Version 1.3.2, 1.4.1

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This file is part of the lwIP TCP/IP stack.

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STM32 Standard Peripheral Library

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LwBT

Version 0.1

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This file is part of the lwBT Bluetooth stack.

Author: Conny Ohult <conny@sm.luth.se>

OpenSSL

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Libsodium

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Hmacsha512

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ctype

Character types

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(38) National Semiconductor (cr16-* and crx-* targets)

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