

Evohome Zoning System

Application

The updated fourth generation of the evohome zoning system now with heating and cooling, advanced weather functionality, patented ON/OFF boiler control, direct heat pump control and integrated Wifi allowing connectivity with the Total Connect Comfort Smart phone App.

The evohome central controller can operate twelve independent time and temperature-controlled zones (rooms) plus stored hot water systems. Each zone has its own full seven-day program with a range of overrides and One touch actions to make using the system fast and convenient.

The controller is part of the evohome room control system and communicates wirelessly with the HR93 radiator controllers, sensors and actuators with the proven 868 MHz wireless secure RF technology. This allows the majority of heating systems to be upgraded with a minimum of disruption or re-wiring.

Evohome can be remotely controlled via Android and Apple smartphones or a browser on any pc and linked to other Smart Home functionality using third party systems via IFTTT, Google Assistant and Amazon Alexa. It will control system with radiators, under floor, stored hot water, electric zones or a mixture of heating and cooling types in a home or office environment.

Evohome provides the highest possible level of efficiency and intelligent control to apartments, family homes, Basic/Combi/Opentherm boilers, gas/oil/electric/solid fuel boilers plus air or ground source heat pumps.

Approvals

- CE
- UKCA
- EMC 2014/30/EU
- LVD 2014/35/EU
- RED 2014/53/EU
- RoHS 2011/65/EU
- ErP Class VI, VII, and VIII

Special Features

- Evohome controller for individual zoning control a single or up to 12 zones and stored hot water per controller
- Heating & Cooling Control
- Heat pump control options
- Integrated smart outside temperature options



- Patented self-learning 'Fuzzy logic' temperature control that adapts to the heating system for more accurate and economic control
- Advanced load scaling, patented optimum boiler control feature runs On/Off boilers in the most efficient mode when demands are lower
- Exceed the highest possible European energy rating classification for heating system (ErP Class VIII)
- Fully customizable to suit individual heating and cooling systems and lifestyles
- Remote connectivity allowing Smartphone control away from home
- Intuitive 12 language operating menu structure and user guided programming
- Large colour backlit touch screen display with easy to read zone and temperature information
- Improved and simplified binding operation to reduce installation time and cost
- Proven wireless communication (no disruption of interior decor, ideally suitable for existing homes)
- Adaptive heating control continually adapts to climate and system heat load thought the year
- Optimization features calculates heat-up and cool-down time allowing programming of actual heating needs
- Informative home screen providing quick overview of system zones
- Enhanced appliance relay module with two relays
 - 2 SPDT Relay outputs
 - Opentherm appliance output

- Quick actions buttons supporting most often used system override functions: away mode, economy mode, day-off more and system off mode provided as standard
- A choice of programming methods including system guided programming wizard mode and intuitive timeline graphical display
- Compatible with wide range of accessories using our proprietary Ramses III secure wireless LAN technology

Technical Data

Specifications	
Dimensions:	136 x 93 x 20 mm
Operating temperature:	0 - 40 °C
IP class:	IP30
Display	
Touch-Screen-Display:	LCD colour graphic 96 x 56 mm display area 480 x 272 pixel, 24 bit colour
Electrical specifications	
Power supply:	5 V DC $\pm$ 0.2 V max 2.6 W
Battery:	2 x rechargeable battery Type AA 1.2 V NiMH 2000 mAh
Temperature Control Internal Sensor:	NTC (Negative Temperature Coefficient Thermistor) - operational range 0 to 35 °C
Radio	
Radio Communication:	ISM (868 - 870 MHz) Receiver Category 2
Wireless LAN:	IEEE 802.11 b,g,n (2.4 GHz)
RX Class 2 Range:	30 m within residential buildings

Transportation and Storage

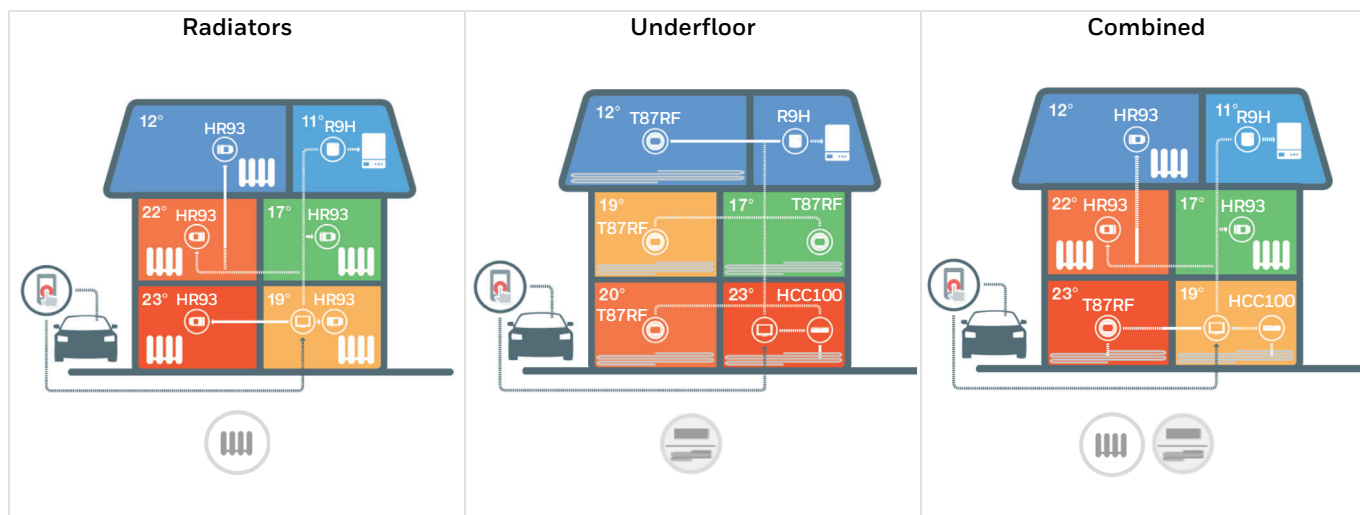
Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	-20 °C
Max. ambient temperature:	50 °C
Min. ambient relative humidity:	10 % *
Max. ambient relative humidity:	90 % *

*non condensing

Method of Operation



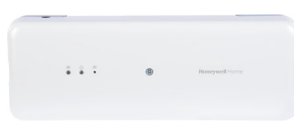
Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.

Options

Description	Language	Item No.
EVOHOME	EN, NL, FR, DE, IT, ES, CZ, HU, PL, RO, SK, BG	EVO-HOUSE
EVOHOME 1 RADIATOR ZONE	EN, NL, FR, DE, IT, ES, CZ, HU, PL, RO, SK, BG	EVO-HOUSE-PLUS
EVOHOME 1 RADIATOR ZONE	EN, NL, FR, DE, IT, ES, CZ, HU, PL, RO, SK, BG	EVO-APARTMENT-PLUS

Accessories

	Description	Item No.
	EVO-TRV	Electronic Radiator Controller
		1 PC
		4 PCS
	T87RF	Room Thermostat
	DTS4	Room Thermostat
		White
		Grey
		Black
	HCC100	Underfloor Multi-Zone Controller
	R9H	Appliance Control Module
		2-Relay, OpenTherm

	ATFDHW	Hot water sensors	
		10K NTC	ATFDHWSensor
	ATF600	Wall mount	
		with power supply	ATF600
	ATF700	Front cover	
		3 coloured covers	ATF700
	ATF800	Table stand	
		with power supply	ATF800