Product information
Version 1

EW40
Wireless Control

Description
The EXHAUSTO EW40 wireless control unit is used to regulate chimney fans (1 x 120V) used with solid fuel combustion in fireplaces and stoves or with gas-fired appliances.

The EW40 allows the chimney draft to be regulated and adjusted as required.

The EW40 uses radio waves at a frequency of 868,42 MHz and the Z-wave protocol. The system employs two-way communication, which means unique security and reliability as all commands have to be confirmed. The system is also protected from communication with non-related units.
The range is affected by the resistance met by the signal. In the open air, the range extends to over 450 feet, while in buildings it is around 40 feet. The range can be increased by the installation of one or more repeater units, each of which extends the signal range by an equivalent distance.

The EW40 set consists of a control panel which can be positioned anywhere near the heating source, and a power unit for fitting to the chimney near the chimney fan. The power unit is fitted as standard with five meters of cable for connection to the mains and features an integrated repair switch for the chimney fan.

Accessories
Temperature sensor for the power unit. When fitted to the power unit, the temperature sensor can start and stop the chimney fan automatically, provide information about the current chimney temperature, indicate when refuelling is required, and trigger alarms to warn of an impending chimney fire.

Repeater units (signal amplifiers) can be positioned between the power unit and the control panel to increase the range of the system.

The mains adapter can be used to power the control panel instead of batteries. If a mains adapter is used, the control panel will be active at all times.

A stainless steel chimney cover is available for power units that are to be fitted to round steel chimneys.

Functions
The EW40 control panel allows the user to start and stop the draft inducer and to increase or decrease its speed. The most recent operating setting is saved in memory. The control also monitors the repair switch for disconnection.

Additional functions with a temperature sensor
Start-up function
Initial start-up, where the chimney fan runs with extra draw to reduce the lighting time and help the fire to take more quickly.

Refuelling
The smoke temperature is monitored, and the unit triggers a signal when the temperature falls below a pre-defined level. Activating the panel increases the chimney draft to prevent refuelling from causing a backdraft of smoke and to help the fuel added to take more quickly.

Automatic start and stop
The temperature sensor automatically monitors the operation of the system, thus guarding against overload in the event of oversights. If the user lights a fire without activating the control system, the sensor switches on the system itself. It also switches off the chimney fan when necessary to prevent extraction of the heat from the residence once the fire has burned down.

The control system will also trigger an alarm if the chimney temperature becomes too high so as to guard against the risk of a chimney fire.

Technical specifications

Description	Data
General information:	
Frequency:	868.42 MHz
Protocol:	Z-wave
Range:	over 450 feet outdoors and approx.40 feet in buildings
Control panel	
Dimensions (b x h x d)	151 x 101 x 44 mm / 5.95 x 3.98 x 1.73 inches
Material:	ABS
Operating temperature:	0–40°C/32-104°F
IP-category:	IP20
Battery:	2 x C (LR14)
Battery lifetime:	approx. 1 year
Power unit	
Dimensions (b x h x d):	123 x 120 x 58 mm / 4.84 x 4.73 x 2.28 inches
Material:	ABS
IP-category:	IP64
Voltage:	120 V ± 10%,60 Hz
Fuse:	T 5.8 Amp
Power output:	5 Amp
Operating temperature:	-20–60°C / -30-140°F
Temperature sensor:	-50–450°C / -60-840°F
Standby consumption:	1 W
Repeater unit	
Dimensions (b x h x d):	80 x 120 x 58 mm / 3.15 x 4.73 x 2.28 inches
Material:	ABS
Voltage:	120 V ± 10%,60 Hz
Operating temperature:	-20–60°C / -30-140°F
IP-category:	IP64
Consumption:	0.75