Control Unit

EFC21

Exodraft controller EFC21 has been developed for use with gas fireplaces where an Exodraft chimney fan or wall fan is installed.

The control system supervises the fail-safe function. In case of insufficient chimney draught, the EFC21 will shut off the gas supply.

The control system is developed to meet BS 5440: Part 1 (2000), BS 6644 (1991), Gas Appliance Directive 90/396/EEC, EN298 (2003) and other relevant European standards.



Function

By activating EFC21 the chimney fan will immediately start up on full speed. When the fail-safe supervision confirms sufficient chimney draught, the fireplace can be lit and the fan speed will adjust to the pre-set value set during commissioning.

The controller has a step-up function and a 15-second built-in delay function to avoid nuisance cut-outs. When EFC21 is turned off, the chimney fan stops. It is possible to pre-set a post-purge period of 3 minutes.

The step-up function is part of the fail-safe system. Should the draught fail during normal operating conditions: the controller will increase the fan speed to compensate. This usually occurs on days that are windier than the commissioning day. If sufficient draught cannot be re-established, the EFC21 will shut off the gas supply.

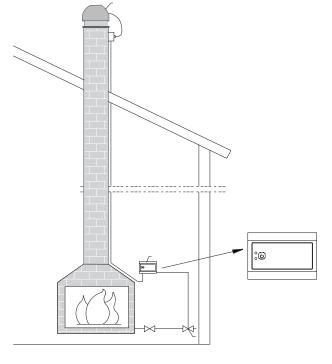
Accessories

SMG12: Solenoid valve for EFC21 for 1/2" pipe SMG14: Solenoid valve for EFC21 for 1/4" pipe.

Technical Data

The system consists of:

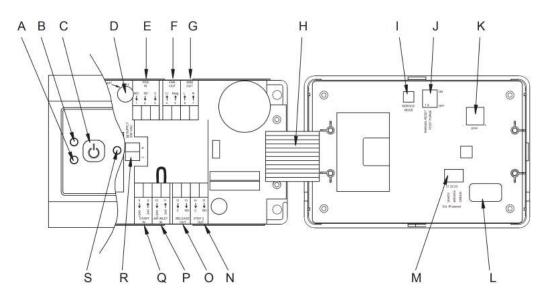
- 1. Chimney fan
- 2. Controller EFC21
- 3. Solenoid valve SMG (order seperately)





Mounting adapters and flanges

Description	Data EFC21	
Height (mm)	85	
Width (mm)	126	
Depth (mm)	32	
Fuse rating (amps) (A)	3.15 A T	
Fail safe (B) Pressure differential switch (PDS)	24 V DC (Closed circuit supply)	
Output to chimney fan (C)	1.8 A/230 V (AC 3)	
Output to soleniod valve (SMG) (D)	230 V AC max. 100 V A	
Dipswitch options (E)	Manual resetPost-purge 3 min. period	
Set-point running speed (F)	Potentiometer on PCB	
Supply (G)	230 V +/- 10 %, 50 Hz	
ut for external on/off switch (H) 24 V DC (Closed circuit supply)		
ease out Relay (I) Max. 3 A 230 V AC / 3A 30 V DC (Fused: 3.15AT)		
Operating temperature	-10 °C to 40 °C	
Degree of protection	IP 30	
Material	ABS	
Colour	White	
CE-Approval No.	0063BN1144 based on EN298 (2003)	
Usable with the following chimney fans in this brochure	RHG, RSHG, RSVG, RSG	



Pos.	Description	Pos.	Description
Α	Alarm LED	K	Potentiometer for adjusting the fan speed
В	Operating LED	L	Product ID
С	ON/OFF button	М	External IR-receiver socket (EFC25 only
D	Fuse T 3,15 A 230 V (spare fuse is also included)	Ν	External IR-receiver socket (EFC25 only
Е	Pressure switch terminal	0	External IR-receiver socket (EFC25 only
F	Fan terminal	Р	Air inlet monitoring terminal
G	SMG solenoid valve (EFC21 only)	Q	Air inlet monitoring terminal
Н	Connection cable	R	Power supply terminal
1	Service mode button	S	Internal IR-receiver (EFC25 only)
J	DIP switch		

