

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.

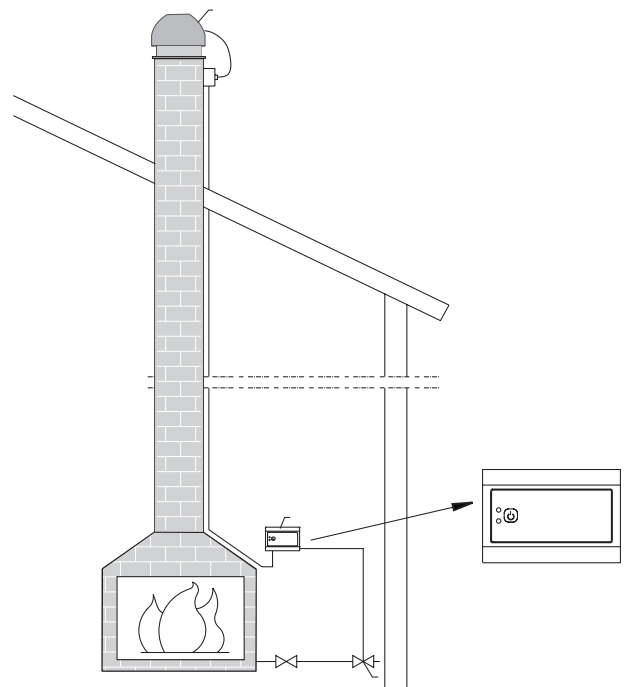
Accessories

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

Technical Data

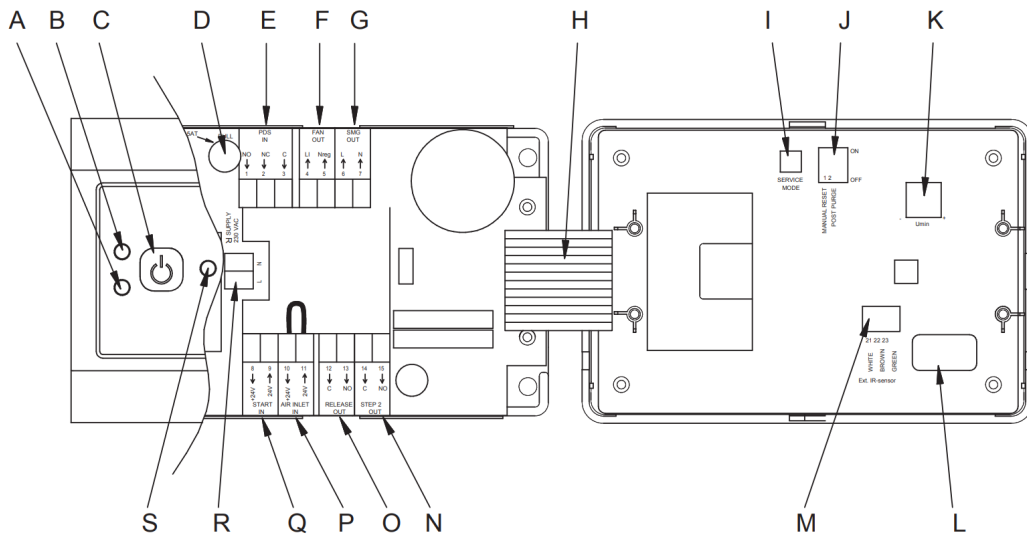
The system consists of:

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



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 solenoid valve (SMG) (D)	230 V AC max. 100 V A
Dipswitch options (E)	<ul style="list-style-type: none"> • Manual reset • Post-purge 3 min. period
Set-point running speed (F)	Potentiometer on PCB
Supply (G)	230 V +/- 10 %, 50 Hz
Input for external on/off switch (H)	24 V DC (Closed circuit supply)
Release 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
A	Alarm LED	K	Potentiometer for adjusting the fan speed
B	Operating LED	L	Product ID
C	ON/OFF button	M	External IR-receiver socket (EFC25 only)
D	Fuse T 3,15 A 230 V (spare fuse is also included)	N	External IR-receiver socket (EFC25 only)
E	Pressure switch terminal	O	External IR-receiver socket (EFC25 only)
F	Fan terminal	P	Air inlet monitoring terminal
G	SMG solenoid valve (EFC21 only)	Q	Air inlet monitoring terminal
H	Connection cable	R	Power supply terminal
I	Service mode button	S	Internal IR-receiver (EFC25 only)
J	DIP switch		