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AIR MOVEMENT PRODUCTS & EXPERTISE

EC Continuous Ventilation Fan Controller

Single Fan · FAN1212

The FAN1212 provides continuous trickle ventilation with an independently adjustable boost speed for one EC fan. Boost can be initiated by compatible lighting circuits, PIR sensors or appliance-current sensing, such as a washing machine or dryer.

OPERATION

For a switched-input trigger, boost can start immediately or after a selectable 30–210 second delay. Once the switched input is released, the fan continues at boost speed for the selected 2–90 minute run-on period before returning to trickle speed. For example, a bathroom light can initiate boost after the selected delay, with ventilation continuing for the preset run-on period after the light is switched off.

APPLICATIONS

Toilet, bathroom, laundry and kitchen extract in apartments, aged care and social housing, and compatible heat recovery applications requiring trickle and boost control.

KEY FEATURES

Fans controlled	One EC fan
Trickle speed	Adjustable via 0–10 VDC potentiometer
Boost speed	Adjustable via separate 0–10 VDC potentiometer
Switched inputs	4 × 230 V switched inputs (lights, PIR sensors or compatible devices)
Start delay	Immediate start, or selectable 30–210 s delay
Run-on timer	2–90 min, set by DIP switch
Current sensing	Integral 5 Amp appliance-current sensing to initiate boost
Run-on timer cancellation	Switch the trigger input ON then OFF within 1 second; the fan returns to trickle speed

Need help with controller selection?
Alaskon | Simx HVAC Technical Support

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EC Continuous Ventilation Fan Controller

Dual Fan · FAN1324

The FAN1324 controls two EC fans, each with independently adjustable trickle and boost speeds. Both fans boost together when triggered, while operating at their individually selected speed settings.

OPERATION

Each fan has separate 0–10 VDC potentiometer adjustments for trickle and boost. Either fan may have different speed settings, but all four switched inputs boost both fans together. Boost starts immediately, with no start delay. Following release of a switched-input trigger, both fans remain at their respective boost speeds for the selected 90-second to 15-minuterun-on period before returning to their individual trickle speeds. Compatible lighting circuits and PIR sensors can provide switched-input triggers; appliance-current sensing can also initiate boost.

APPLICATIONS

Toilet, bathroom, laundry and kitchen extract in apartments, aged care and social housing, and compatible heat recovery applications requiring two EC fans with independently adjustable trickle and boost speeds.

KEY FEATURES

Fans controlled	Two EC fans
Trickle speed	Independently adjustable for each fan via its own 0–10 VDC potentiometer
Boost speed	Independently adjustable for each fan via its own 0–10 VDC potentiometer
Switched inputs	4 × 230 V switched inputs (lights, PIR sensors or compatible devices)
Run-on timer	90 s – 15 min, set by DIP switch
Current sensing	Integral 5 Amp appliance-current sensing to initiate boost
Run-on timer cancellation	Switch the trigger input ON then OFF within 1 second; both fans return to trickle speed

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EC Trickle / Boost Controller

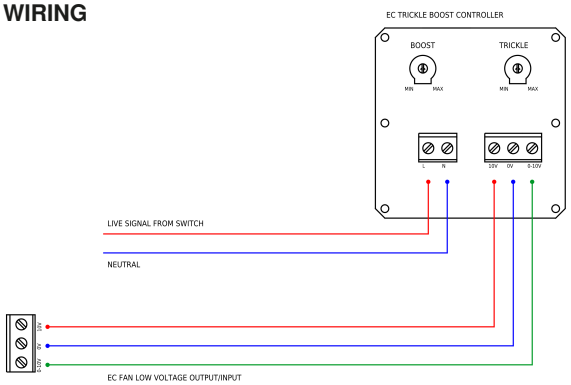
Single Fan · FAN1441

Runs one EC fan at a set trickle speed and switches it to boost from any live signal: a light switch, PIR, humidistat or timer.

OPERATION

The fan stays at boost speed while the switched input is live and returns to trickle as soon as the input switches off.
Set the trickle speed on potentiometer R10 and the boost speed on R9. Both adjust from 15% to 100%. Boost speed cannot be set lower than trickle speed.

WIRING



SPECIFICATIONS

Part number	FAN1441
Supply	230 V AC, 50 Hz
Supply power	1 W
Operating range	–20 to 40 °C, IP22
Dimensions	94 × 94 × 57 mm
Fixing centres	79 × 79 mm

CONNECTIONS

MAINS · SWITCHED LIVE INPUT

L	Live signal from switch, boost select
N	Neutral

LOW VOLTAGE · TO EC FAN

10V	10 V supply
0V	Ground
0-10V	0–10 V fan speed control output

APPLICATIONS

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