

# Fan Control Panel

## Variable Speed 15 - 22 kW



### Controllers / 400 V 3 Ph/ 50 Hz

The Variable Speed Fan Control Panel has the following features:

- Industrial PLC logic - driven system
- Duty fan and standby fan control
- The Variable Frequency Drives (VFD) within the control panel allow for multiple fan speed settings to be programmed for increased flexibility
- Inputs for external firefighters' key switch control (auto/off, auto/boost)
- Simple hard-wired activation or more involved network signal activation
- Multiple panels can be networked together
- Reversible fan operation if required for twin shaft/triple shaft push/pull systems
- The facility to monitor up to 50 pressure sensors to prevent excessive pressure in the activated zone
- Ability to power single-phase environmental fans via a contractor or three-phase with optional internal Variable Frequency Drive
- Ductwork damper control - Single 230 Vac Power Close (PC)/Spring Open (SO): Single or Double 24 Vdc Power Close (PC) Power Open (PO)
- System state indication on panel face via LEDs
- Activation/healthy Volt Free Contacts (VFC) for BMS monitoring
- Fan panel status can be viewed via an associated SHEVTEC repeater panel
- 4 activation inputs to provide more accurate speed control within different building zones
- Ability to communicate with Cloudlink systems for remote monitoring
- Optional build to BS8519 ATS Compliant with generator start up signal



Designed to comply with the **BS EN 60204-1:2018** electrical standard.

This covers the **LV directive and machinery directive for electrical safety design.**

In addition, the panel has been **EMC tested** and complies with **EN 12101-3.**

### Applications

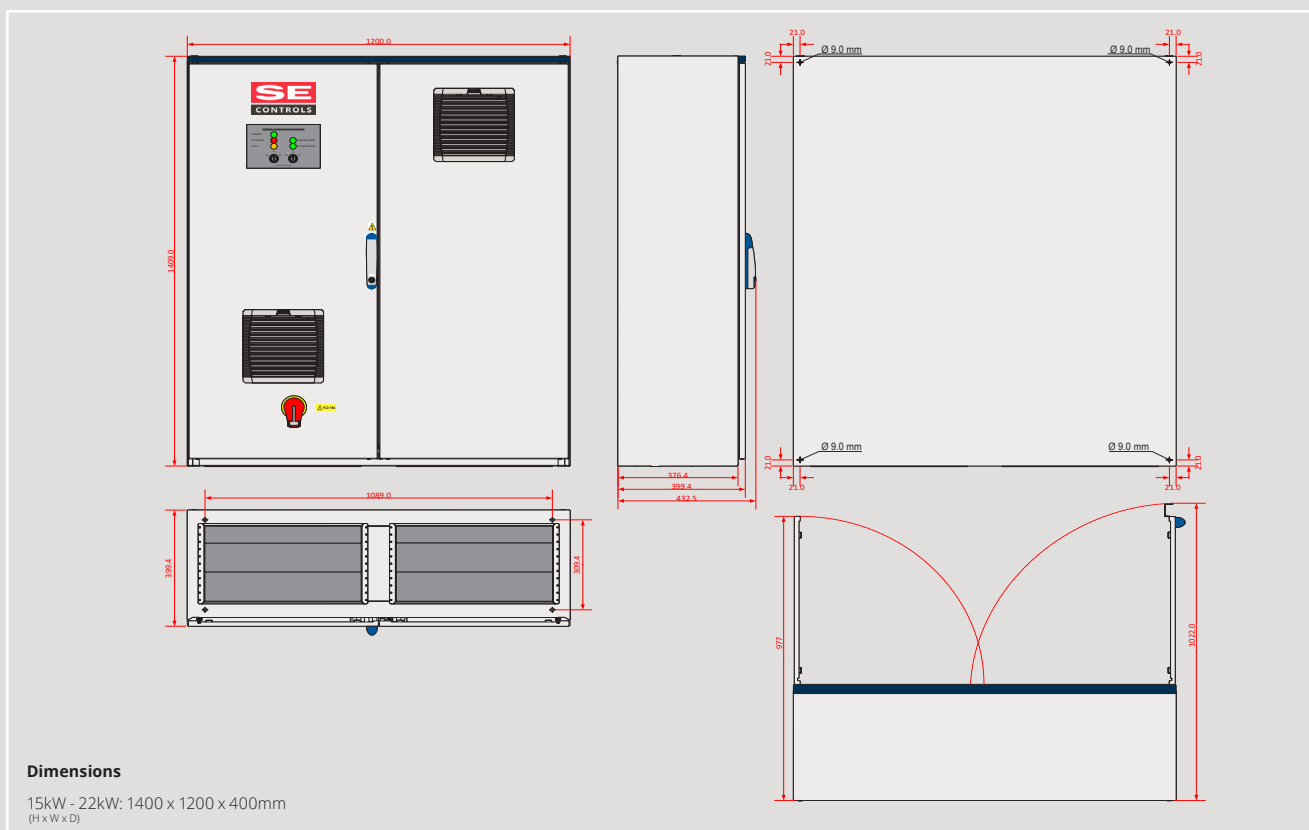


**Environmental Ventilation**



**Smoke Ventilation**

## Technical Drawing



## Power

- Class 1
- Primary and secondary 400 V 3Ph 50 Hz supplies into internally fitted Automatic Transfer Switch (ATS) unit or from external ATS unit
- Isolating switch in panel face for service requirements
- Current draw between 1 to 50.6 A depending on either quiescent state or system activated state and associated fan Full Load Current (FLC):  
 15-22 kW: 21 to 38.5 A FLC
- PLC backup battery 2 x 12 V 12.0 Ah sealed lead acid batteries (batteries not included)

## Environment

- IP rating 55 (Internal and External) fully weatherproofed
- Internal or external panel fitting option
- Humidity 10 to 90% non-condensing
- Operating temperature -5 to 40°C (internally climate controlled via cooling fan and heater)
- Can be installed up to 1,000 metres above sea level without de-rating
- Fan can be installed up to 50 metres away from the panel
- Standard Finish:

Panel : Powder Coated RAL 7035

Canopy: Powder Coated RAL 5020

## Miscellaneous

**Note:** The below are all dependent on a variety of factors, including, but not limited to, system specification, inverter size, ATS requirements, additional NV fan control and panel location.

- Weight from 140 kg up to 210 kg
- Bottom cable entry regardless of panel location

## Product Codes

### 15-22kW Fan Control Panel

FCS043XXXXX

### 12 V 12.0 Ah Battery <sup>1</sup>

ABB00660016

### 150 mm Battery Link Cable

FXS04000008

<sup>1</sup> 2 x required