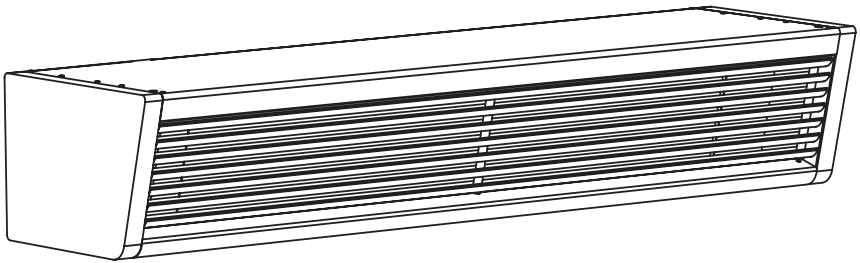




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Figure 1

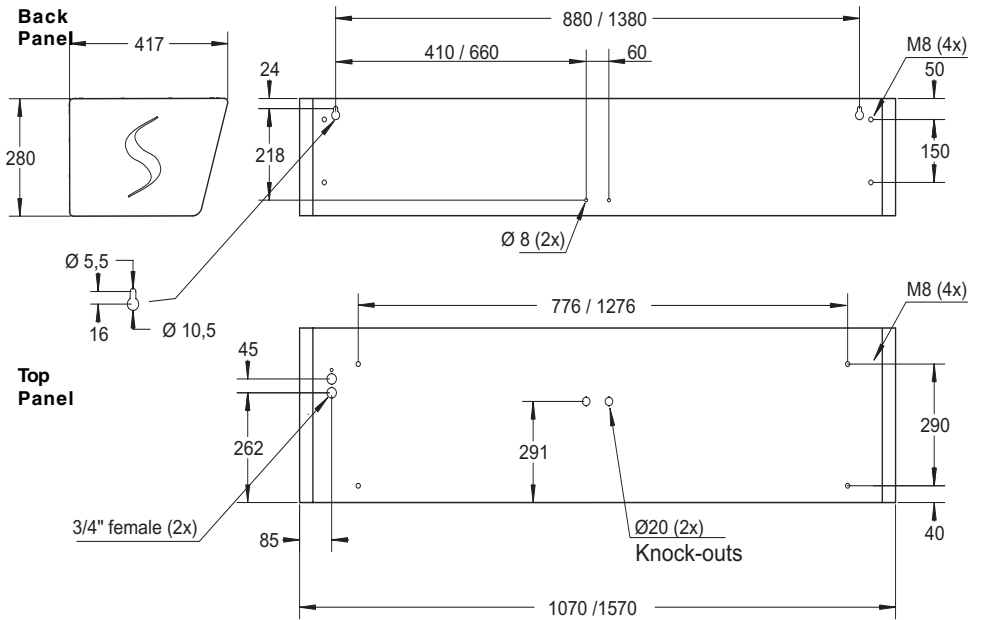
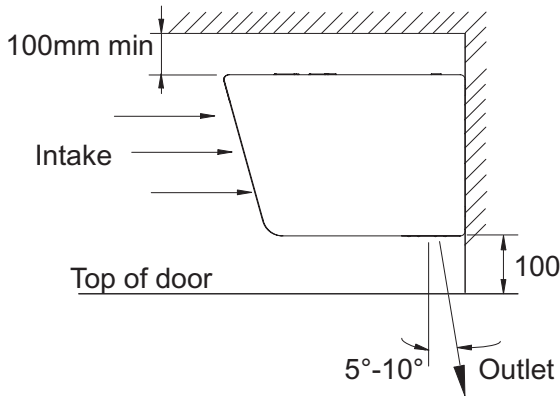


Figure 2



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Figure 3

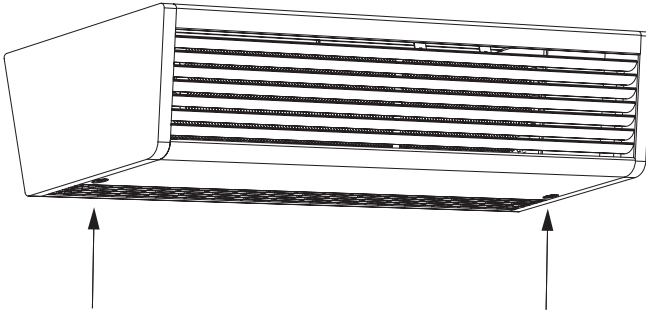


Figure 4

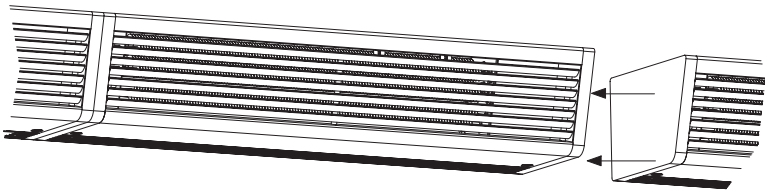
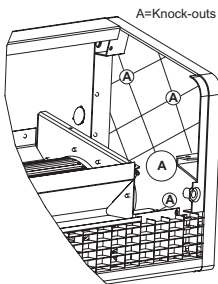


Figure 5



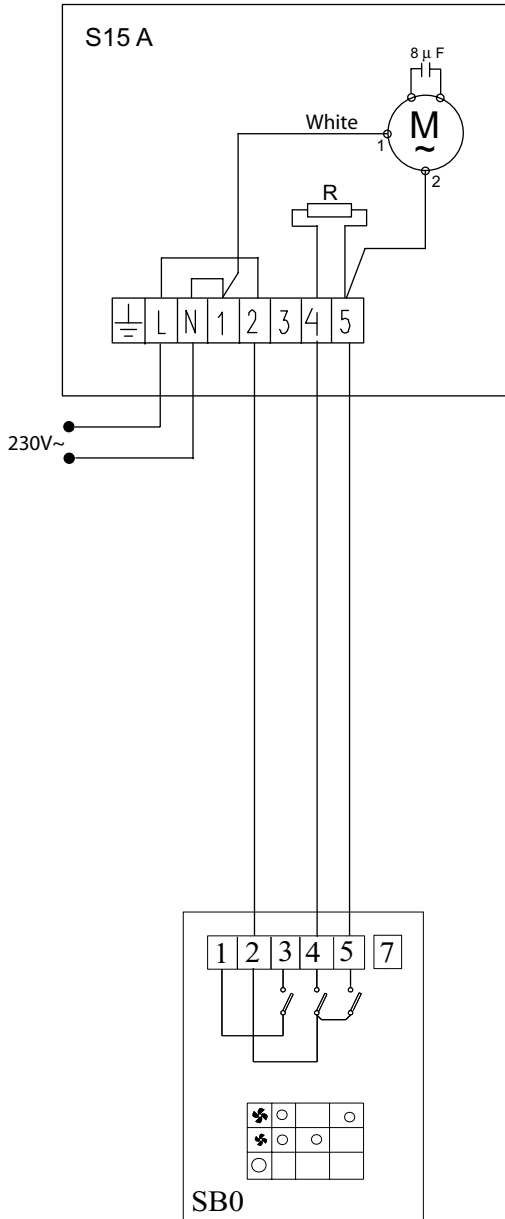
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## Data

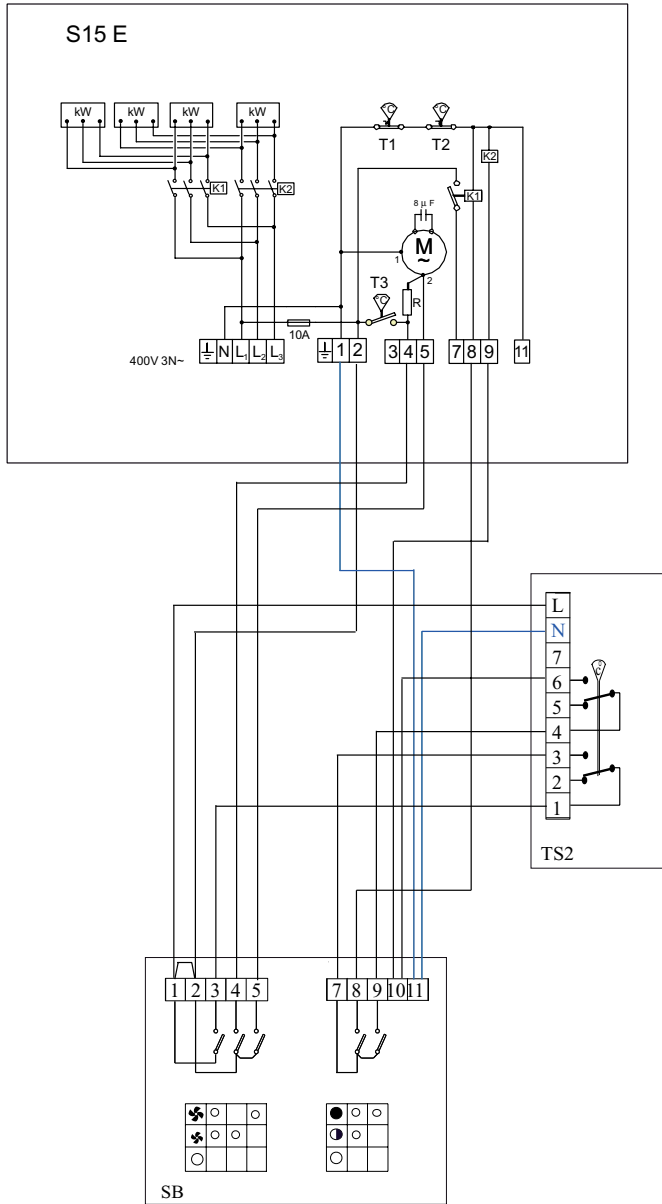
Type		S15-100A	S15-150A	S15-100E	S15-150E
Output	[kW]	-	-	6/12	9/18
Voltage, motor	[V]	230V~	230V~	230V~	230V~
Current, motor	[A]	2,3	2,9	2,4	2,9
Voltage, output	[V]	-	-	400V3~	400V3~
Current, output	[A]	-	-	17,4	26,0
Airflow	[m <sup>3</sup> /h]	1700/2400	2300/3600	1700/2400	2300/3600
Sound level*1)	[dB(A)]	54 / 64	55 / 64	54 / 64	55 / 64
Weight	[kg]	26	34	30	39
Length	[mm]	1070	1570	1070	1570
Protection class		IP 21	IP 21	IP 21	IP 21

\*1) Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200m<sup>2</sup>.

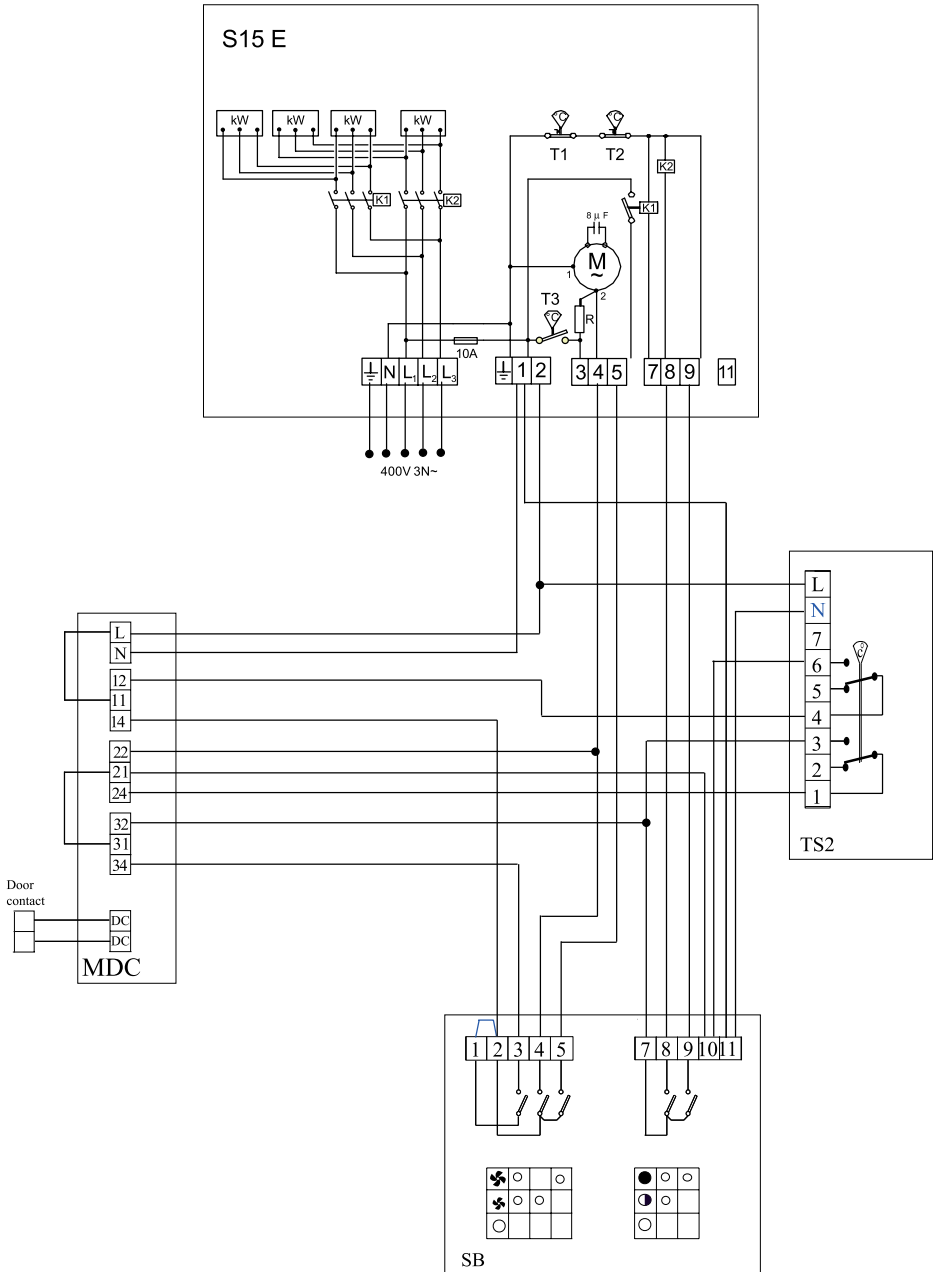
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## Assembly and operating instructions

### General recommendations

Carefully read this instruction manual before installation and use of the S15 unit. Keep these instructions in a safe place for future reference.

### Application area

The S15 air curtains are intended for stationary/permanent installation above entrances and smaller doors with a height from 2 up to 4.5 metres, but can also be used for industrial heating and drying. The unit can be mounted above a doorway or recessed into a ceiling.

Protection class: IP21

### Operation

The air is drawn in at the front of the unit and blown out at high velocity across the doorway, providing a protective air shield. The air shield minimises cold draughts and reduces heat loss through open doorways. For best efficiency, the air curtain(s) should cover the whole width of the opening.

The air director/grille is adjustable and is normally angled outwards (5-10°) to achieve the best protection.

The airflow can be regulated by use of the fan speed selector (See accessories)

The efficiency of the air curtain(s) depends on the air temperature and pressure differences across the doorway and any wind pressure.

*NOTE! Negative pressure in the building considerably reduces the efficiency of the air curtain. Ventilation should therefore be balanced.*

### Mounting

The units may only be installed horizontally over a doorway with the air-stream directed downwards.

For the protection of wider doorways, several units can be mounted next to each other.

For optimal performance it is recommended that a minimum gap of 100mm is maintained above the air-curtain. Regarding other dimensions and minimum assembly distances, please see page 2.

The air curtains should be installed as close as possible to the top of the door for maximum effectiveness (see Figure 2).

Intake and outlet grilles must be completely free from obstruction.

If multiple modules are to be used in one application (Figure 4) the knock-outs shown in Figure 5 must be removed to secure the interlocking faces. Refer to instructions in the linking kit for further details on mounting and wiring.

### Fitted on the wall or beam

1 Remove the air intake grille by releasing locking screws accessible through holes in top panel, see Figure 3, arrow C and pushing vanes in the direction of arrow A. Lift the grille forward out of the casing. Unscrew the lower panel fasteners B and remove the lower panel from the air curtain.

2 Hold the air curtain in position and mark the wall through the holes in the casing detailed in Figure 1. Drill and fix suitable wall plugs. Insert the top two mounting screws leaving a 3mm gap between the screw head and the wall. Hang the module on these screws and fasten the central fixing screws to secure.

3 The S15 can be bolted direct to the wall/beam. For this application, there are 4 M8 threads on the rear of the unit, see Figure 1.

### Suspended from the ceiling

For suspended fixing there are 4 M8 threads on the top of the unit, see Figure 1.

### Electrical installation

The air curtain(s) should only be wired by a competent electrician, and in accordance with the latest edition of IEE wiring regulations.

1. Unscrew the lower panel fasteners and remove the lower panel from the air curtain (Figure 3).

2. The switch cable should be wired to the control terminal in the air curtain through one of the knock-outs in the top case.

If considering a multiple module installation, connect the control to one of the end modules using cross-over wiring. Further details can be found in the linking kit.

Each module with electric heat must be independently connected to a suitable three-phase supply.

Thermal safety cut-outs are positioned over the heating elements such that the supply to the elements will be cut if the internal temperature rise is too great.

The S15 electric variants include a fan over-run. After the air curtain has been switched off, the fan over-run may cut in to cool the interior of the air-curtain. The air curtain must always be switched off using the switch control, and the fan over-run allowed to operate fully prior to isolation from the mains supply. If this sequence is not followed, the thermal safety cut-outs may operate, and will need to be manually re-set before the air curtain will operate.

Wiring diagram for installation of the air curtain with accessories, see page 5-7.

NOTE: The cable-glands used must guarantee the protection class requirements!

### **Overheating**

All motors are equipped with an integral thermal safety cut-out. If the motor temperature rises too high this will stop the air curtain.

The cut-out will automatically reset when the motor temperature has returned to within the motor's operating limits.

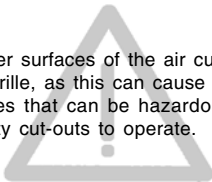
### **Maintenance**

To ensure performance and reliability of the air curtain, inspection and cleaning should be carried out regularly.

Before removing any panels, the power supply must first be disconnected.

### **Safety**

Do not cover surfaces of the air curtain or obstruct air intake grille, as this can cause excessive temperatures that can be hazardous and may cause safety cut-outs to operate.





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