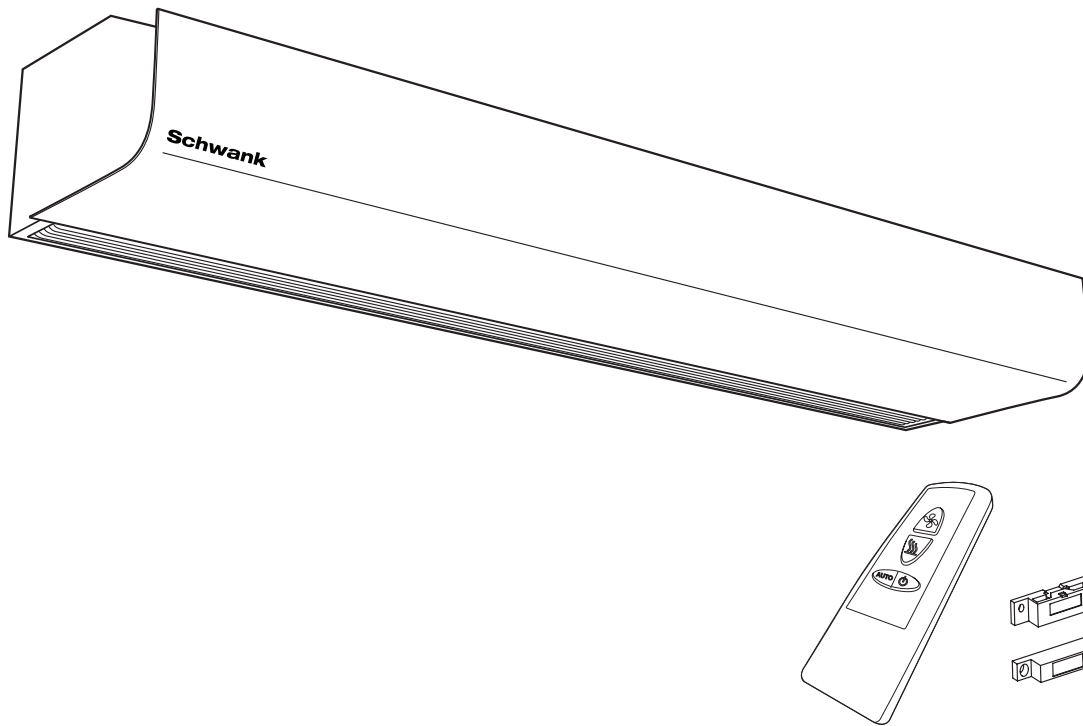




# **Schwank** Installation Manual

## **Select10 Series Air Curtain**

Mounting Height: 8ft-10ft

## → Technical Specification

### ✿ Ambient, no heat - (IP21)

| Model      | Output (kW) | Airflow* <sup>1</sup> (CFM) | Sound Pressure* <sup>2</sup> (db(A)) | Motor power (W) | Voltage motor (V) | Amperage motor (A) | Weight (lb) |
|------------|-------------|-----------------------------|--------------------------------------|-----------------|-------------------|--------------------|-------------|
| AC-KA36-23 | 0           | 859                         | 55                                   | 80              | 208V~             | 0.6                | 35          |
| AC-KA60-23 | 0           | 1592                        | 56                                   | 110             | 208V~             | 0.9                | 53          |
| AC-KA72-23 | 0           | 1875                        | 57                                   | 140             | 208V~             | 1.0                | 71          |

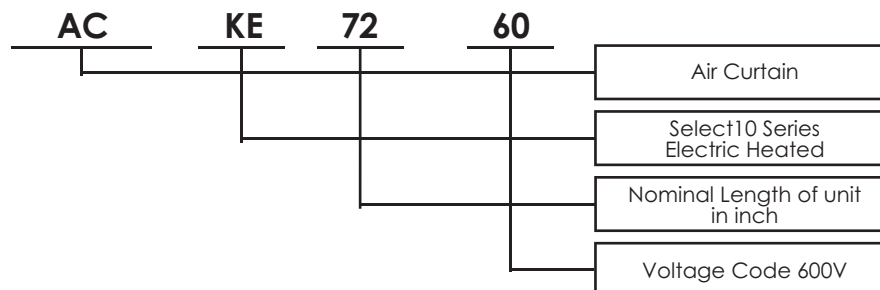
### ⚡ Electrical heat - (IP20)

| Model        | Output (kW) | Airflow* <sup>1</sup> (CFM) | Sound Pressure* <sup>2</sup> (db(A)) | FLA (full load amperage)* <sup>3</sup> (A) | Motor power (W) | Amperage motor (A) | Voltage (V)<br>Amperage (A)<br>(heat) | Weight (lb) |
|--------------|-------------|-----------------------------|--------------------------------------|--------------------------------------------|-----------------|--------------------|---------------------------------------|-------------|
| AC-KE36-20   | 2.7/4.1     | 859                         | 55                                   | 11.9                                       | 80              | 0.6                | 208V3~/11.3                           | 37.5        |
| AC-KE36-20-1 | 2.7/4.1     | 859                         | 55                                   | 21                                         | 80              | 0.6                | 208V1~/20                             | 37.5        |
| AC-KE36-48   | 3.3/5       | 859                         | 55                                   | 6.6                                        | 80              | 0.6                | 480V3~/6.0                            | 42          |
| AC-KE36-60   | 3.3/5       | 859                         | 55                                   | 5.2                                        | 80              | 0.6                | 600V3~/4.8                            | 42          |
| AC-KE60-20   | 3.2/6.5     | 1592                        | 56                                   | 18.6                                       | 110             | 0.9                | 208V3~/18                             | 57.3        |
| AC-KE60-20-1 | 3.2/6.5     | 1592                        | 56                                   | 32                                         | 110             | 0.9                | 208V1~/31                             | 57.3        |
| AC-KE60-48   | 4/8         | 1592                        | 56                                   | 10.5                                       | 110             | 0.9                | 480V3~/9.6                            | 61.7        |
| AC-KE60-60   | 4/8         | 1592                        | 56                                   | 8.6                                        | 110             | 0.9                | 600V3~/7.7                            | 61.7        |
| AC-KE72-20   | 4.1/8.1     | 1875                        | 57                                   | 23.5                                       | 140             | 1.0                | 208V3~/22.5                           | 75          |
| AC-KE72-48   | 5/10        | 1875                        | 57                                   | 13                                         | 140             | 1.0                | 480V3~/12                             | 79.3        |
| AC-KE72-60   | 5/10        | 1875                        | 57                                   | 10.6                                       | 140             | 1.0                | 600V3~/9.6                            | 79.3        |

1. Highest airflow at 3 fan speed.
2. Values shown are calculated from total sound power levels for installation Type A: free inlet, free outlet.
3. FLA: total amperage for motor and heat.

Above table is valid for 208V/1ph/60Hz. Also approved for 230V/1ph/60Hz. Product performance for 230V/1ph/60Hz will differ from stated data.

Protection class for units with electrical heating: IP20.  
Protection class for units without electric heating: IP21.



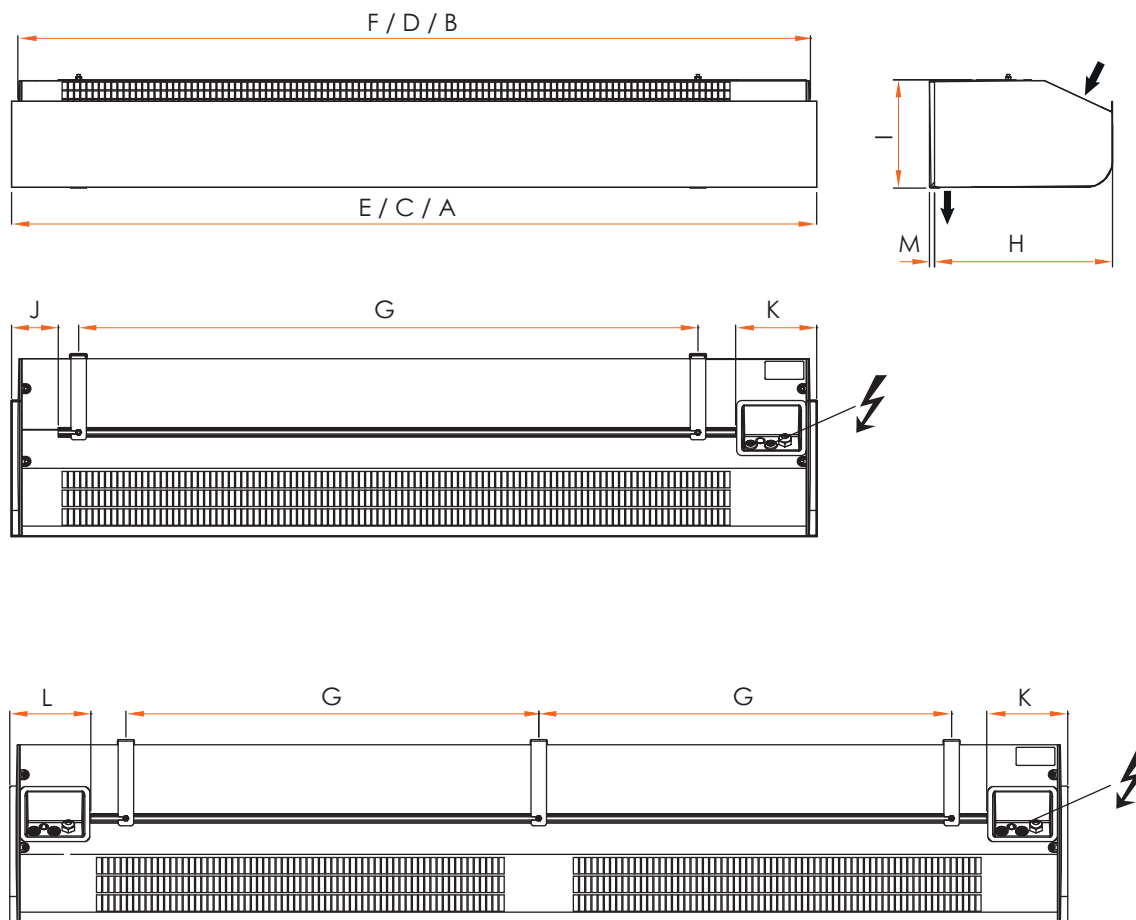
EN

The introduction pages consist mainly of pictures.  
For translation of the English texts used, see the respective language pages.

FR

Les pages de présentation contiennent principalement des images.  
Pour la traduction des textes en anglais, consultez la page correspondante à la langue souhaitée.

## → Dimensions



| Dimension | Size (inch) | Model                           |
|-----------|-------------|---------------------------------|
| <b>A</b>  | 80.7        | AC-KA72-23 AC-KE72-20 (48) (60) |
| <b>B</b>  | 79.8        | AC-KA72-23 AC-KE72-20 (48) (60) |
| <b>C</b>  | 61.4        | AC-KA60-23 AC-KE60-20 (48) (60) |
| <b>D</b>  | 60.5        | AC-KA60-23 AC-KE60-20 (48) (60) |
| <b>E</b>  | 41.3        | AC-KA36-23 AC-KE36-20 (48) (60) |
| <b>F</b>  | 40.4        | AC-KA36-23 AC-KE36-20 (48) (60) |

| Dimension | Size (inch) | Model      |
|-----------|-------------|------------|
| <b>G</b>  | 19.7        | All Models |
| <b>H</b>  | 13.6        | All Models |
| <b>I</b>  | 8.3         | All Models |
| <b>J</b>  | 3.6         | All Models |
| <b>K</b>  | 6.2         | All Models |
| <b>L</b>  | 6.2         | All Models |
| <b>M</b>  | 0.4         | All Models |

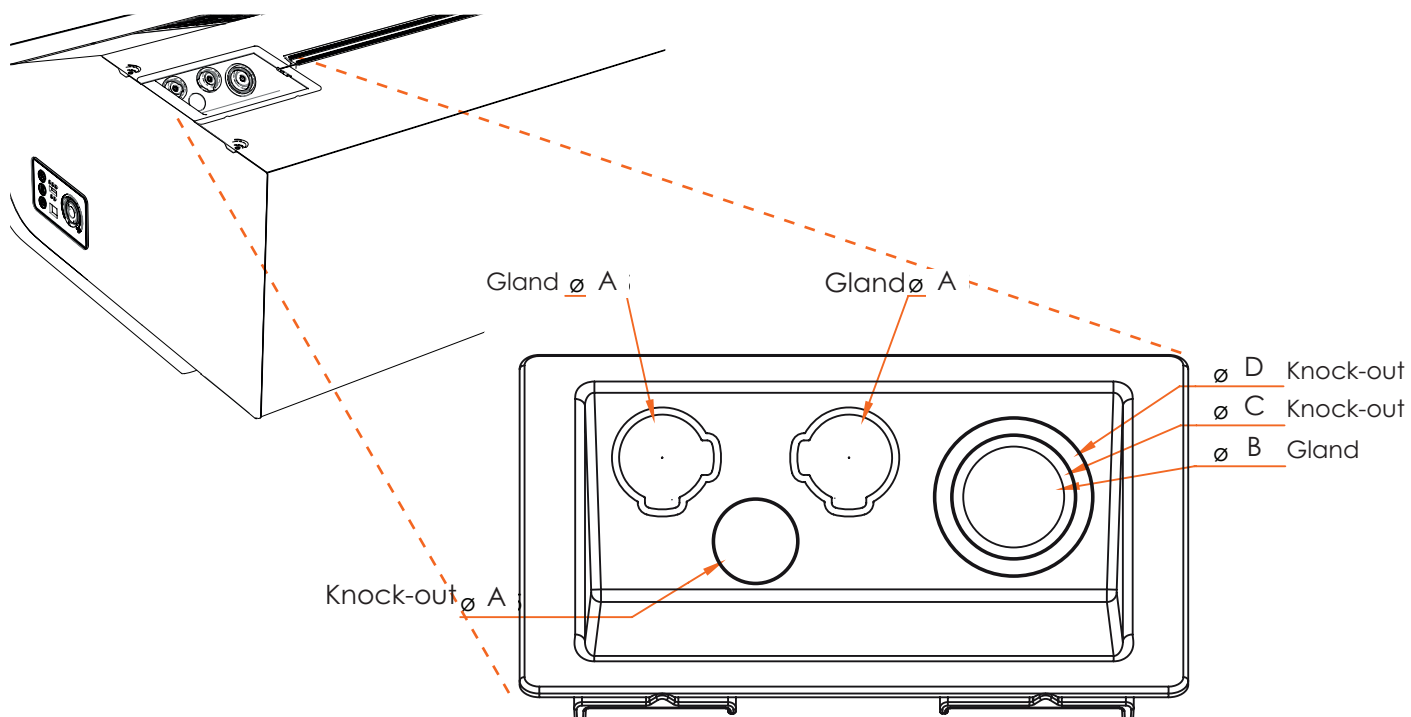
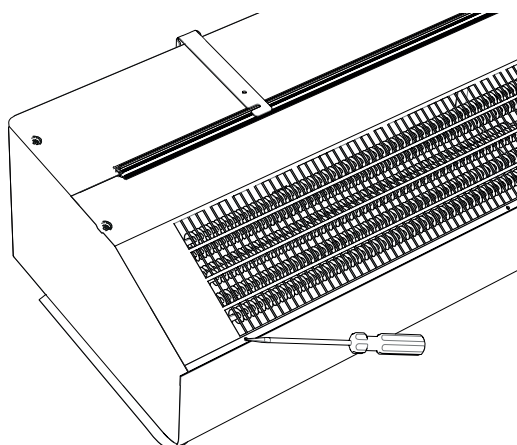


Fig. 2

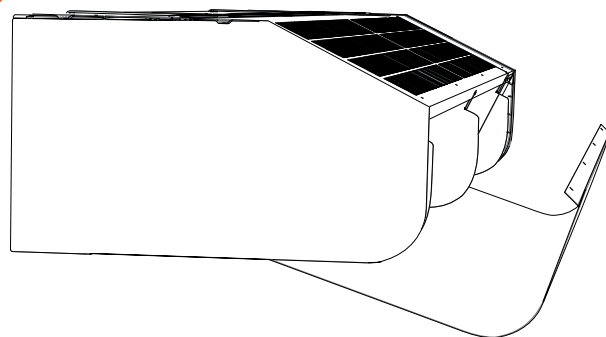
| Ref | (inch) |
|-----|--------|
| A   | 0.69   |
| B   | 0.81   |
| C   | 1.00   |
| D   | 1.28   |

## → Open the unit

A



B



C

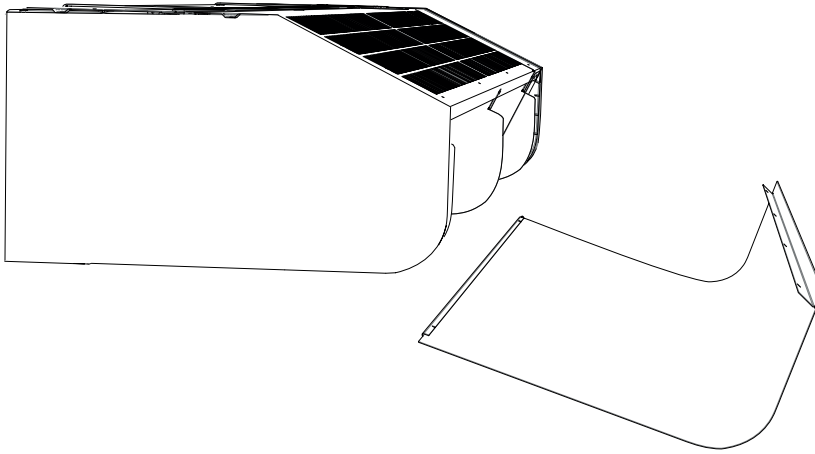


Fig. 3: Open the unit.



## Minimum distance

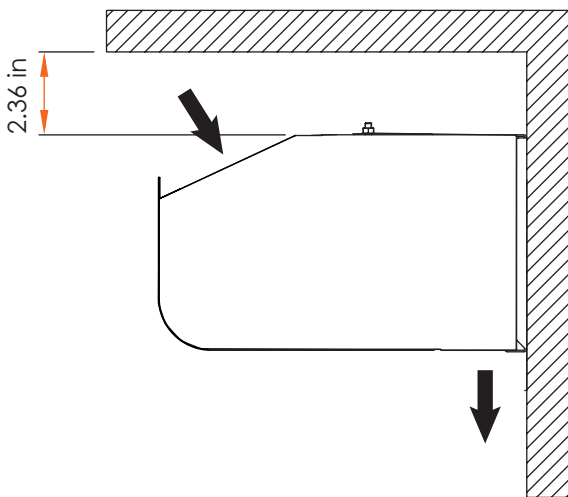


Fig. 4

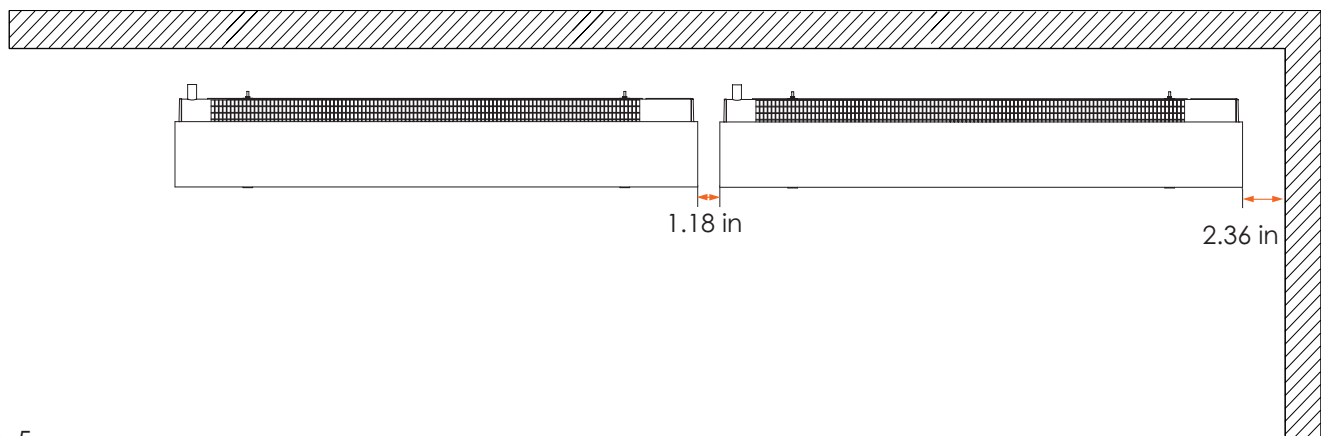
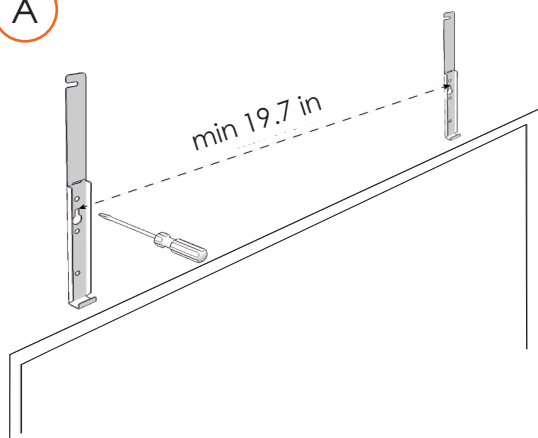


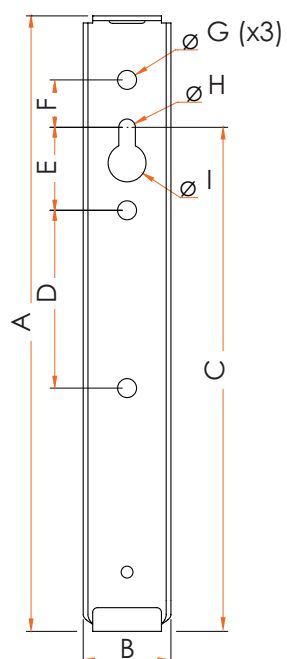
Fig. 5

## → Mounting with wall brackets

A

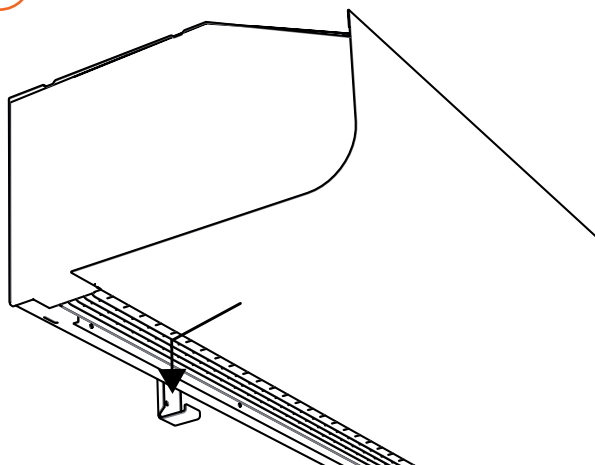


|            |       |
|------------|-------|
| 36" Models | 2 pcs |
| 60" Models | 2 pcs |
| 72" Models | 3 pcs |

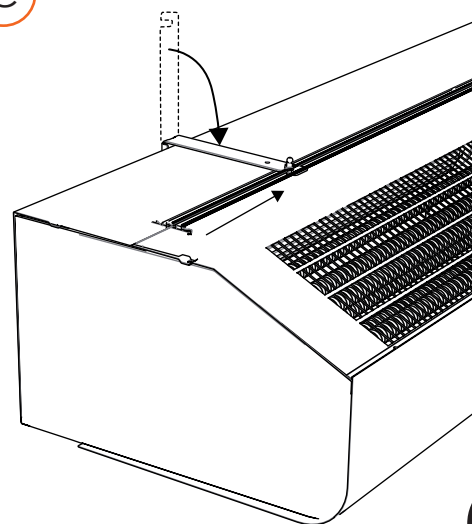


| Ref | (inch) |
|-----|--------|
| A   | 10.24  |
| B   | 1.46   |
| C   | 8.39   |
| D   | 2.95   |
| E   | 1.38   |
| F   | 0.79   |
| G   | 0.31   |
| H   | 0.28   |
| I   | 0.63   |

B



C



D

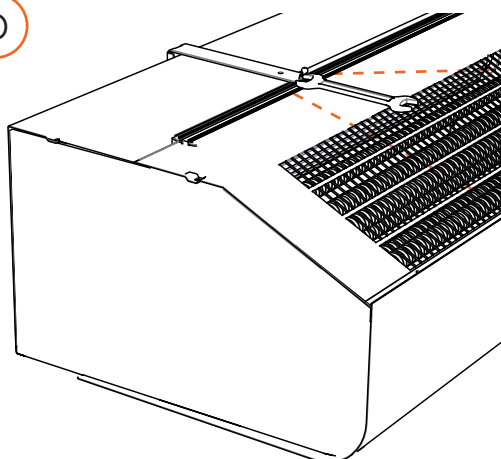
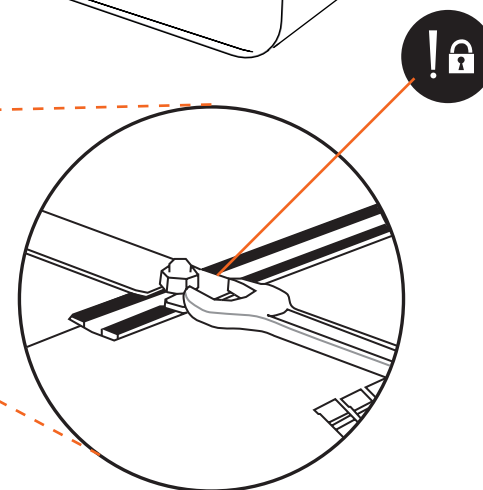


Fig. 6: Mounting with wall brackets

## Accessories

**JC-0754-15/20** - Threaded Rods for Ceiling Mount (3.4ft)

**JC-0702-15/20** - Pendulum Ceiling Bars

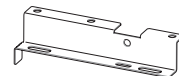
**JC-0704-15/20** - Pendulum Ceiling Brackets



JC-0754-15/20

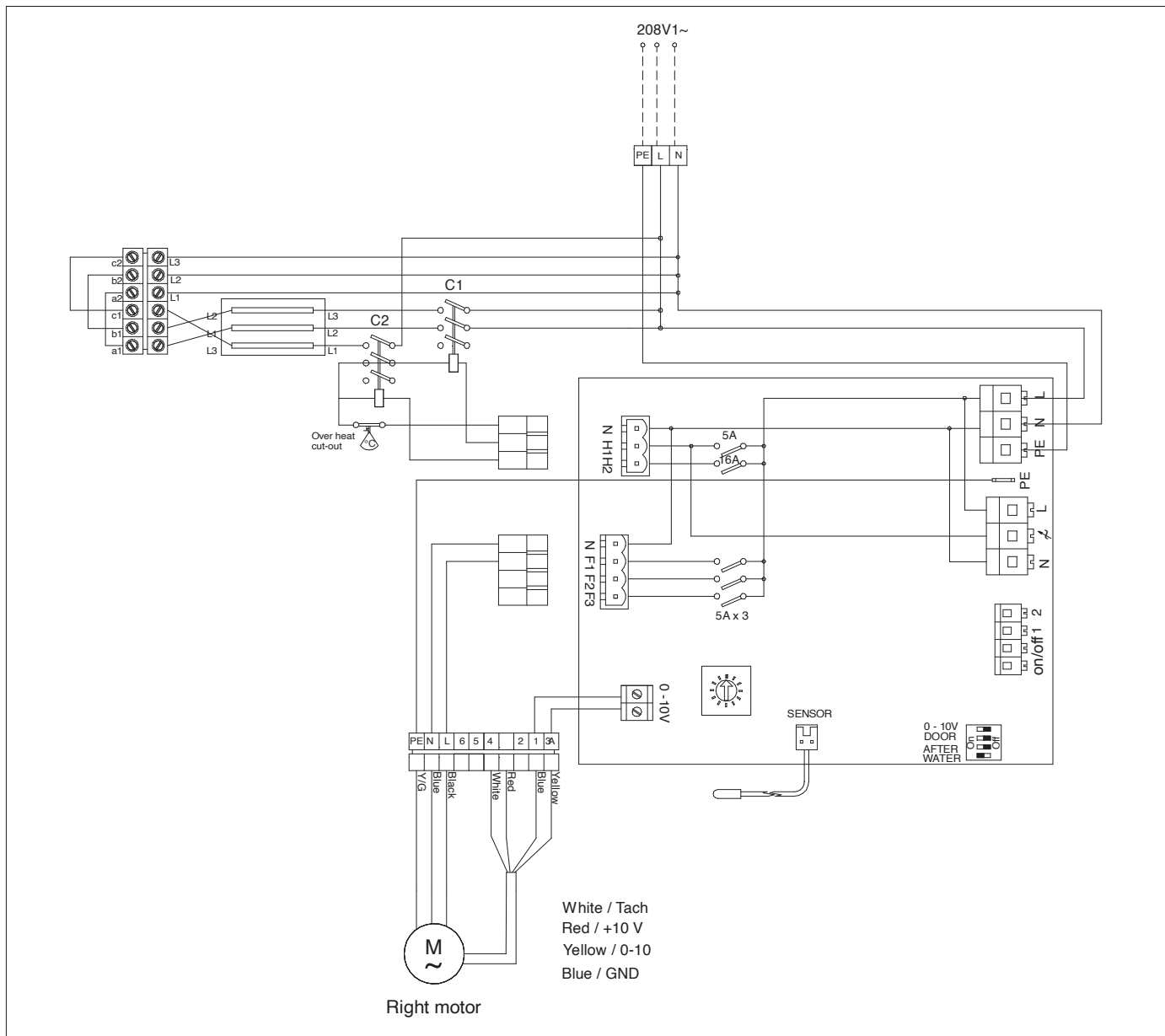


JC-0702-15/20

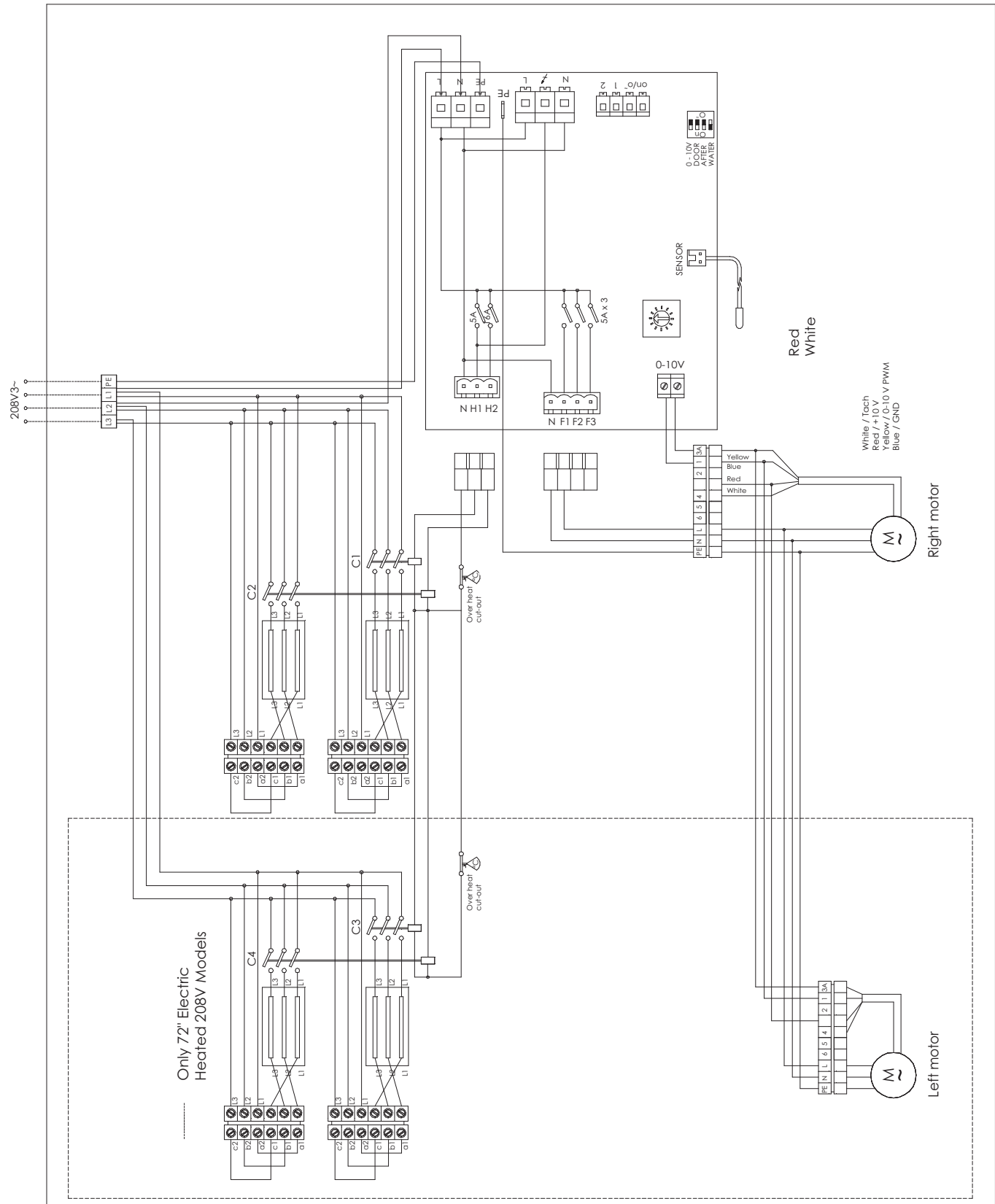


JC-0704-15/20

## Wiring Diagram - Schwank Select10 Series Air Curtain Ambient



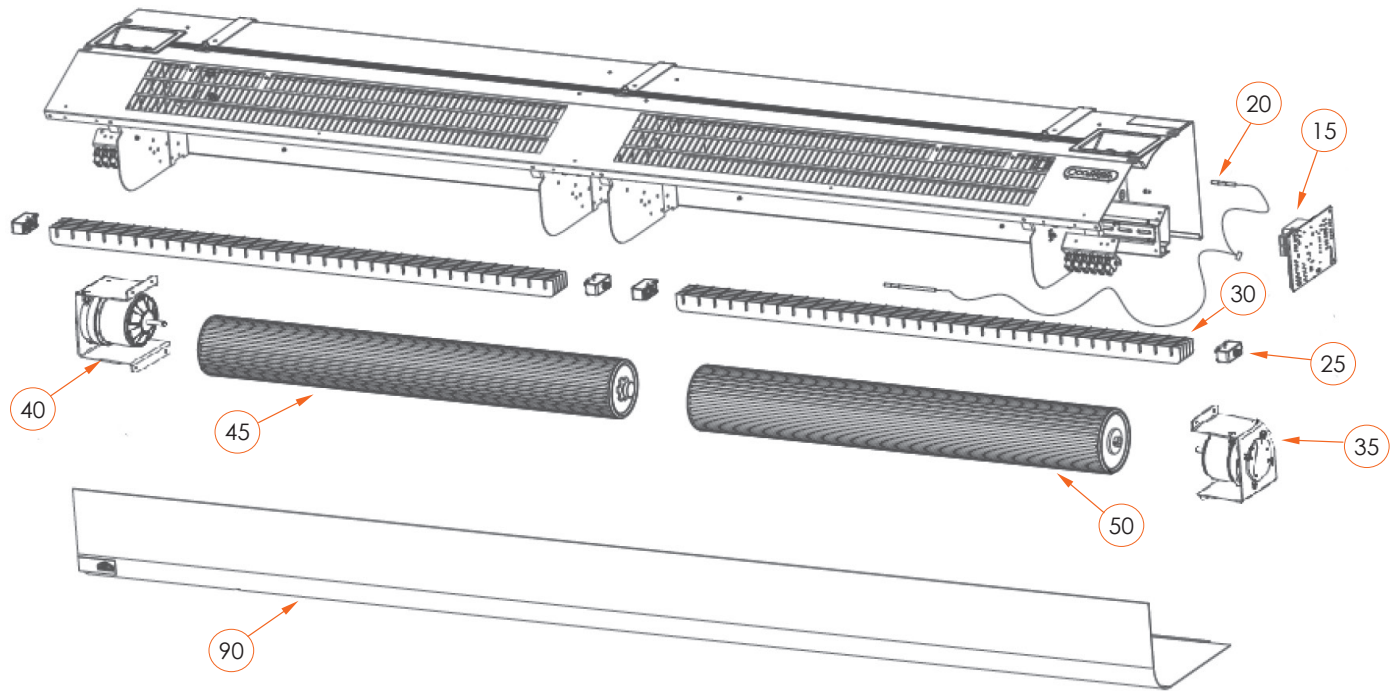
## Wiring Diagram - Schwank Select10 Series Air Curtain Electric Heated 208V





## → Replacement Parts List

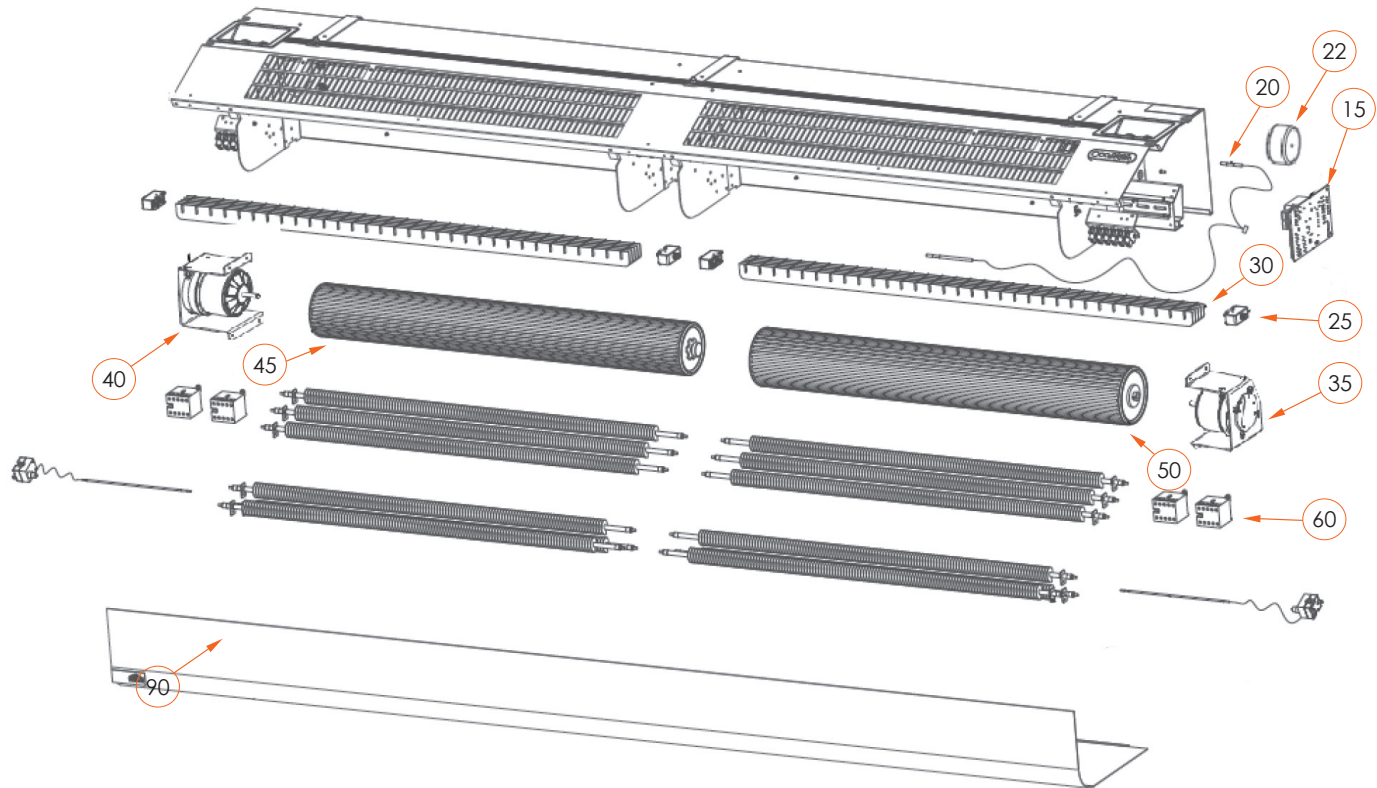
### Schwank Select10 Series Air Curtain - Ambient



| Item | Description                                                           | Part #     | Model #    |
|------|-----------------------------------------------------------------------|------------|------------|
| 90   | Select10 Series Air Curtain Front Cover 36" (Surface)                 | JC-0501-10 | AC-KA36-23 |
|      | Select10 Series Air Curtain Front Cover 60" (Surface)                 | JC-0501-15 | AC-KA60-23 |
|      | Select10 Series Air Curtain Front Cover 72" (Surface)                 | JC-0501-20 | AC-KA72-23 |
| 50   | Select10 Series Air Curtain Impellor-R 36" & 72" (Surface & Recessed) | JC-0502-10 | AC-KA36-23 |
|      | Select10 Series Air Curtain Impellor-R 60" (Surface & Recessed)       | JC-0502-15 | AC-KA60-23 |
| 45   | Select10 Series Air Curtain Impellor-L 60" & 72" (Surface & Recessed) | JC-0502-20 | AC-KA72-23 |
| 40   | Select10 Series Air Curtain EC Motor Left 72"                         | JC-0503-30 | AC-KA72-23 |
| 35   | Select10 Series Air Curtain EC Motor Right 36"                        | JC-0503-15 | AC-KA36-23 |
|      | Select10 Series Air Curtain EC Motor 60"                              | JC-0503-15 | AC-KA60-23 |
| 30   | Select10 Series Air Curtain Nozzle Grill 36"                          | JC-0504-10 | AC-KA36-23 |
|      | Select10 Series Air Curtain Nozzle Grill 60"                          | JC-0504-15 | AC-KA60-23 |
|      | Select10 Series Air Curtain Nozzle Grill 72"                          | JC-0504-20 | AC-KA72-23 |
| 25   | Select10 Series Air Curtain Nozzle Bracket                            | JC-0505-XX | AC-KA36-23 |
|      |                                                                       |            | AC-KA60-23 |
|      |                                                                       |            | AC-KA72-23 |
| 20   | Select10 Series Internal Sensor                                       | JC-0506-XX | AC-KA36-23 |
|      |                                                                       |            | AC-KA60-23 |
|      |                                                                       |            | AC-KA72-23 |
| 15   | Select10 Series Air Curtain PCB                                       | JC-0507-XX | AC-KA36-23 |
|      |                                                                       |            | AC-KA60-23 |
|      |                                                                       |            | AC-KA72-23 |

## → Replacement Parts List

### Schwank Select10 Series Air Curtain - Electric



| Item | Description                                                           | Part #     | Model #    |
|------|-----------------------------------------------------------------------|------------|------------|
| 90   | Select10 Series Air Curtain Front Cover 36" (Surface)                 | JC-0501-10 | AC-KE36-20 |
|      |                                                                       |            | AC-KE36-48 |
|      |                                                                       |            | AC-KE36-60 |
|      | Select10 Series Air Curtain Front Cover 60" (Surface)                 | JC-0501-15 | AC-KE60-20 |
|      |                                                                       |            | AC-KE60-48 |
|      |                                                                       |            | AC-KE60-60 |
|      | Select10 Series Air Curtain Front Cover 72" (Surface)                 | JC-0501-20 | AC-KE72-20 |
|      |                                                                       |            | AC-KE72-48 |
|      |                                                                       |            | AC-KE72-60 |
| 50   | Select10 Series Air Curtain Impellor-R 36" & 72" (Surface & Recessed) | JC-0502-10 | AC-KE36-20 |
|      |                                                                       |            | AC-KE36-48 |
|      |                                                                       |            | AC-KE36-60 |
|      | Select10 Series Air Curtain Impellor-R 60" (Surface & Recessed)       | JC-0502-15 | AC-KE60-20 |
|      |                                                                       |            | AC-KE60-48 |
|      |                                                                       |            | AC-KE60-60 |
| 45   | Select10 Series Air Curtain Impellor-L 60" & 72" (Surface & Recessed) | JC-0502-20 | AC-KE72-20 |
|      |                                                                       |            | AC-KE72-48 |
|      |                                                                       |            | AC-KE72-60 |
| 40   | Select10 Series Air Curtain EC Motor Left 72"                         | JC-0503-30 | AC-KE72-20 |
|      |                                                                       |            | AC-KE72-48 |
|      |                                                                       |            | AC-KE72-60 |
| 35   | Select10 Series Air Curtain EC Motor Right 36"                        | JC-0503-15 | AC-KE36-20 |
|      |                                                                       |            | AC-KE36-48 |
|      |                                                                       |            | AC-KE36-60 |
|      | Select10 Series Air Curtain EC Motor 60"                              | JC-0503-15 | AC-KE60-20 |
|      |                                                                       |            | AC-KE60-48 |
|      |                                                                       |            | AC-KE60-60 |
| 30   | Select10 Series Air Curtain Nozzle Grill 36"                          | JC-0504-10 | AC-KE36-20 |
|      |                                                                       |            | AC-KE36-48 |
|      |                                                                       |            | AC-KE36-60 |
|      | Select10 Series Air Curtain Nozzle Grill 60"                          | JC-0504-15 | AC-KE60-20 |
|      |                                                                       |            | AC-KE60-48 |
|      |                                                                       |            | AC-KE60-60 |
|      | Select10 Series Air Curtain Nozzle Grill 72"                          | JC-0504-20 | AC-KE72-20 |
|      |                                                                       |            | AC-KE72-48 |
|      |                                                                       |            | AC-KE72-60 |
| 25   | Select10 Series Air Curtain Nozzle Bracket                            | JC-0505-XX | AC-KE36-20 |
|      |                                                                       |            | AC-KE36-48 |
|      |                                                                       |            | AC-KE36-60 |
|      |                                                                       |            | AC-KE60-20 |
|      |                                                                       |            | AC-KE60-48 |
|      |                                                                       |            | AC-KE60-60 |
|      |                                                                       |            | AC-KE72-20 |
|      |                                                                       |            | AC-KE72-48 |
| 20   | Select10 Series Internal Sensor                                       | JC-0506-XX | AC-KE72-60 |
|      |                                                                       |            | AC-KE36-20 |
|      |                                                                       |            | AC-KE36-48 |
|      |                                                                       |            | AC-KE36-60 |
|      |                                                                       |            | AC-KE60-20 |
|      |                                                                       |            | AC-KE60-48 |
|      |                                                                       |            | AC-KE60-60 |
|      |                                                                       |            | AC-KE72-20 |
| 15   | Select10 Series Air Curtain PCB.                                      | JC-0507-XX | AC-KE72-48 |
|      |                                                                       |            | AC-KE72-60 |
|      |                                                                       |            | AC-KE36-20 |
|      |                                                                       |            | AC-KE36-48 |
|      |                                                                       |            | AC-KE36-60 |
|      |                                                                       |            | AC-KE60-20 |

| Item | Description                                                 | Part #     | Model #    |
|------|-------------------------------------------------------------|------------|------------|
|      |                                                             |            | AC-KE72-48 |
|      |                                                             |            | AC-KE72-60 |
| 22   | Select10 Series Air Curtain Transformer                     | JC-0521-XX | AC-KE36-20 |
|      |                                                             |            | AC-KE36-48 |
|      |                                                             |            | AC-KE36-60 |
|      |                                                             |            | AC-KE60-20 |
|      |                                                             |            | AC-KE60-48 |
|      |                                                             |            | AC-KE60-60 |
|      |                                                             |            | AC-KE72-20 |
|      |                                                             |            | AC-KE72-48 |
|      |                                                             |            | AC-KE72-60 |
| 70   | Select10 Series Air Curtain Heating Rod - 347V 36" Back     | JC-0522-XX | AC-KE36-48 |
|      | Select10 Series Air Curtain Heating Rod - 347V 36" Back     | JC-0522-XX | AC-KE36-60 |
|      | Select10 Series Air Curtain Heating Rod - 347V 36" Front    | JC-0523-XX | AC-KE36-48 |
|      | Select10 Series Air Curtain Heating Rod - 347V 36" Front    | JC-0523-XX | AC-KE36-60 |
|      | Select10 Series Air Curtain Heating Rod - 347V 60" Back     | JC-0524-XX | AC-KE60-48 |
|      | Select10 Series Air Curtain Heating Rod - 347V 60" Back     | JC-0524-XX | AC-KE60-60 |
|      | Select10 Series Air Curtain Heating Rod - 347V 60" Front    | JC-0525-XX | AC-KE60-48 |
|      | Select10 Series Air Curtain Heating Rod - 347V 60" Front    | JC-0525-XX | AC-KE60-60 |
|      | Select10 Series Air Curtain Heating Rod - 208V 36" Front    | JC-0526-XX | AC-KE36-20 |
|      | Select10 Series Air Curtain Heating Rod - 208V 60" Front    | JC-0527-XX | AC-KE60-20 |
|      | Select10 Series Air Curtain Heating Rod - 208V 60" Back     | JC-0528-XX | AC-KE72-20 |
| 65   | Select10 Series Air Curtain Thermal Cut-Off Electric Heated | JC-0529-XX | AC-KE36-20 |
|      |                                                             |            | AC-KE36-48 |
|      |                                                             |            | AC-KE36-60 |
|      |                                                             |            | AC-KE60-20 |
|      |                                                             |            | AC-KE60-48 |
|      |                                                             |            | AC-KE60-60 |
|      |                                                             |            | AC-KE72-20 |
|      |                                                             |            | AC-KE72-48 |
|      |                                                             |            | AC-KE72-60 |
| 60   | Select10 Series Air Curtain Contactor Electric Heated       | JC-0530-XX | AC-KE36-20 |
|      |                                                             |            | AC-KE36-48 |
|      |                                                             |            | AC-KE36-60 |
|      |                                                             |            | AC-KE60-20 |
|      |                                                             |            | AC-KE60-48 |
|      |                                                             |            | AC-KE60-60 |
|      |                                                             |            | AC-KE72-20 |
|      |                                                             |            | AC-KE72-48 |
|      |                                                             |            | AC-KE72-60 |

EN

- Read the safety instructions before performing installation and/or maintenance activities on the unit.
- Installation and/or maintenance activities on the unit may only be performed by qualified technical staff.
- The unit shall not be installed and used outdoors or in environments that are aggressive, or potentially explosive. At installation site make sure surrounding environment does not require higher IP classification of the equipment than what is stated on the data label of the unit.
- The unit must be connected in accordance with the applicable local requirements. Make sure that the unit's power supply voltage matches the local mains voltage. The unit's power supply voltage and maximum ratings are displayed on the data label placed on the unit.
- The unit shall be fused according to the table below.
- See also "Safety" on the English pages.

FR

- Veuillez lire les consignes de sécurité avant d'installer l'unité ou d'en effectuer l'entretien.
- L'installation ou l'entretien de l'unité doivent être effectués par un technicien qualifié seulement.
- L'unité ne doit pas être installée et utilisée à l'extérieur ou dans un environnement hostile ou potentiellement explosif. Au site d'installation, veuillez vous assurer que le milieu environnant n'exige pas une classification IP de l'équipement supérieure à ce qui est indiqué sur l'étiquette de données de l'unité.
- L'unité doit être branchée conformément aux exigences locales applicables. Veuillez vous assurer que la tension d'alimentation de l'unité correspond à la tension de secteur locale. La tension d'alimentation de l'unité et les calibres maximums sont indiqués sur l'étiquette de données placée sur l'unité.
- L'unité doit être protégée par un fusible conformément au tableau ci-dessous.
- Voir également la section « Sécurité » dans les pages en français.

**EN: Maximum Amperage on L1, L2 or L3 (A)**

**FR: Intensité de courant électrique maximale pour L1, L2 ou L3 (A)**

≤ 10A

≤ 15A

≤ 20A

≤ 25A

≤ 35A

≤ 50A

≤ 65A

≤ 80A

≤ 102A

**EN: Maximum fuse value (A)**

**FR: Calibre maximum du fusible (A)**

16A

20A

25A

35A

50A

63A

80A

100A

125A



## Installation and operating instructions

### General Instructions

Read these instructions carefully prior to installation and use. Keep this manual for future reference.

The product may only be used as set out in the assembly and operating instructions. The guarantee is only valid should the product be used in the manner intended and in accordance with the instructions.

### Application

Select10 series is a compact air curtain with a recommended installation height of up to 10 ft. The air curtain has an integrated control system and can be remotely controlled.

The air curtain is available without heat and with electrical heating.

Protection class for units with electrical heating: IP20.

Protection class for units without heating: IP21.

### Operation

Air is drawn in at the top of the unit and blown downwards shielding the door opening and minimizing heat loss. To achieve the optimum curtain effect the unit must extend the full width of the door opening.

The grille for directing the outlet air is adjustable and is normally angled outwards to achieve the best protection against incoming air.

The efficiency of the air curtain depends on the air temperature, the pressure differential across the doorway and any wind load.

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

### Mounting

The air curtain unit is installed horizontally with the supply air grille facing downwards as close to the door as possible. Minimum distance from outlet to floor for electrically heated units is 70.9 in. For other minimum distances, see fig. 4.

Brackets and torx bit are enclosed in the gable end packaging upon delivery.

#### *Mounting with wall brackets (fig. 6)*

1. Mount the brackets on the wall, see fig.6A and dimension drawing fig.1. If the wall is uneven the brackets must be compensated for this.
2. Hook on the unit at the lower edge of the brackets. (Fig.6B)
3. Bend the top of the console over the the unit and slide the units screws along the rail into the slots on the consoles. (Fig.6C) When the bracket is bent once, it must be replaced if bent back more than 133 °F.
4. Lock the nuts against the brackets. (Fig.6D)

#### *Horizontal mounting on the ceiling*

Threaded rods, hanging brackets and ceiling mounting brackets for ceiling mounting are available as accessories, see accessories pages and separate manuals.

### Electrical installation

The installation, which should be preceded by an isolator switch with a contact separation of at least 0.12 in, should only be wired by a licensed electrician and in accordance with the NEC and the local electrical codes and regulations. The control system is pre-installed in the air curtain.

#### *Unit without heating*

Connected via the built-in control board with 4.9 ft cord.

#### *Unit with electrical heating*

The electrical connection is made on the top of the unit. See Fig.2. 208V3~/480V3~/600V3~ power supply for heat and control (\*1 \*2) should be connected to a terminal block in the primary terminal box.

- 1\* 480V3~/ 600V3~ Control supply is transformed via internal transformer to 230V~ and routed through 2x 10A fuses in the primary terminal box.
- 2\* 208V3~ Control supply is connected internally through 2x 10A fuses in the primary terminal box.

The largest cable diameter for the terminal block is AWG6. The cable glands used must meet the protection class requirements. In the distribution board it is to be indicated that "the air curtains can be supplied from more than one connection".

See wiring diagrams.

### Control options

*Stepless airflow control with door contact/position limit switch*

When the door is closed the fan runs at low speed. When the door opens, the fan runs at high speed, set on the remote control or the control panel at the gable end.

See Figure 2 and Accessories pages.

### Start-up (TE)

When the unit is used for the first time or after a long period of non-use, smoke or an odour may result from dust or dirt which has collected on the element. This is completely normal and disappears after a short time.

*NOTE: Care must be taken when connecting the pipes. Use a pipe wrench or a similar tool to grip the air curtain connections to prevent straining of the pipes and subsequent water leakage during connection to the water supply pipe-work.*

### Adjustment of the air curtain and airflow

The direction and speed of the airflow should be adjusted considering the load on the opening. Pressure forces affect the airstream and force it inwards towards the premises (when the premises are heated and the outdoor air is cold). The airstream should, therefore, be directed outwards to withstand the load. Generally speaking, the higher the load, the greater the angle required.

### Basic setting fan speed

The fan speed when the door is open is set using the control. Note that the airflow direction and the fan speed may need fine adjustment depending on the loading of the door.

### Service, repairs and maintenance

For all service, repair and maintenance first carry out the following:

1. Disconnect the power supply.
2. The front hatch is removed by removing the screws on the top of the unit and then detach the bent edge at the bottom. (Fig.3)
3. After the service, repair and maintenance reattach the front hatch. Place the hatch at the lower edge with the bent edge and fasten on top with screws.

Note that when carrying out work where the end is removed, the outlet grille also detaches.

### Maintenance

Since fan motors and other components are maintenance-free, no maintenance other than cleaning is necessary. The level of cleaning can vary depending on local conditions. Undertake cleaning at least twice a year. Inlet and exhaust grilles, impeller and elements can be vacuum cleaned or wiped using a damp cloth. Use a brush when vacuuming to prevent damaging sensitive parts. Avoid the use of strong alkaline or acidic cleaning agents.

### Overheating

The air curtain unit with electrical heating is equipped with an overheat protection. If it is deployed due to overheating, reset as follows:

1. Disconnect the power supply with the isolator switch.
2. Determine the cause of overheating and rectify the fault.
3. Remove the front hatch.
4. Press the red button located inside the air curtain unit, at the inner gable of the terminal box.
5. Reattach the front hatch and connect the unit again.

All motors are equipped with an integral thermal safety cut-out. This will operate, stopping the air curtain should the motor temperature rise too high. The cut-out will automatically reset when the motor temperature has returned to within the motor's operating limits.

## Temperature control

See control pages.

## Replacing motor or impeller

1. Remove the front.
2. Remove gable end.
3. Remove the screw between motor and fan.
4. Disconnect the cables to the motor.
5. Remove the screws securing the motor and lift it out together with the impeller.
6. Install the new motor and/or the new impeller as above in reverse order.

## Replacing heating elements/heating package (TE)

1. Mark and disconnect the cables to the heating elements/package.
2. Remove the mounting screws securing the heating elements/package in the unit and lift the heating elements/package out.
3. Install the new heating elements/package in reverse order to the above.

## Troubleshooting

*If the fans are not running or do not perform properly, check the following:*

- The functions and settings of the built-in control system.
- That the intake grille/filter is not dirty.

*If there is no heat, check the following:*

- The functions, internal sensor and settings of the built-in control system.

*For units with electrical heating, also check the following:*

- Power supply to electric heater coil; check fuses and circuit-breaker (if any).
- That the overheat protection has not been deployed.

If the fault cannot be rectified, please contact a qualified service technician.

## Residual current circuit breaker (TE)

When the installation is protected by means of a residual current circuit breaker, which trips when the appliance is connected, this may be due to moisture in the heating element. When an appliance containing a heater element has not been used for a long period or stored in a damp environment, moisture can enter the element. This should not be seen as a fault, but is simply rectified by connecting the appliance to the main supply via a socket without a safety cut-out so that the moisture can be eliminated from the element. The drying time can vary from a few hours to a few days. As a preventive measure, the unit should occasionally be run for a short time when it is not being used for extended periods of time.

## Packaging

Packaging materials are chosen with consideration to the environment and are therefore recyclable.

## Handling of product at end of working life

This product may contain substances necessary for the functionality of the product but potentially dangerous for the environment. The product should not be disposed of mixed with general household waste but delivered to a designated collection point for environmental recycling. Please contact the local authority for further details of your nearest designated collection point.

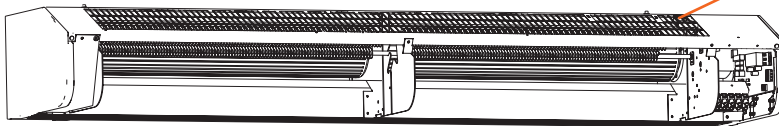
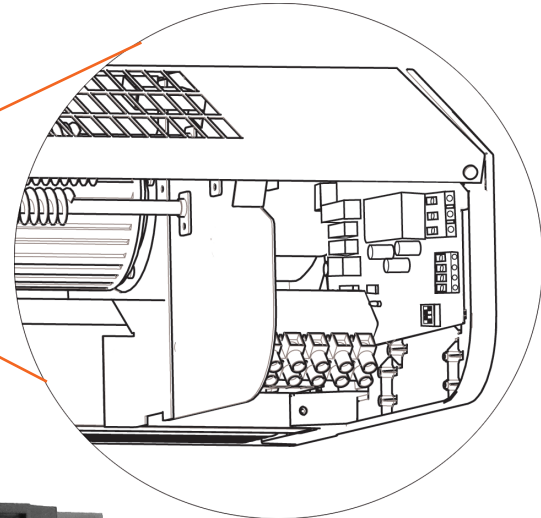
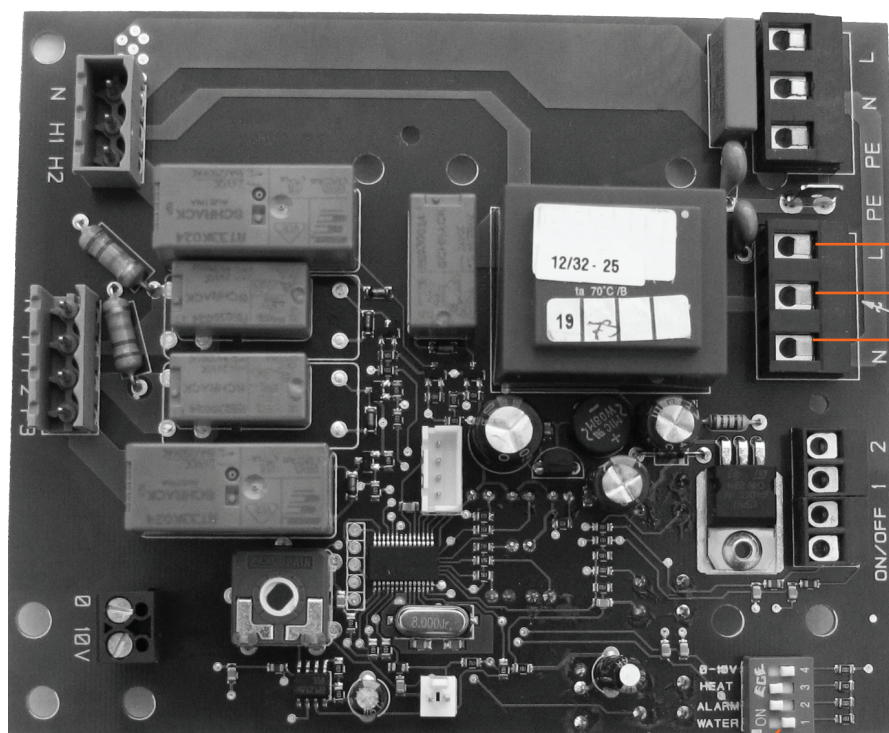
## **Safety**

- For all installations of electrically heated products a residual current circuit breaker 300 mA for fire protection should be used.
- Keep the areas around the air intake and exhaust grilles free from possible obstructions!
- The unit must not be fully or partially covered as overheating can result in a fire risk!
- Lifting equipment must be used to lift the unit.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Children of less than 3 years should be kept away unless continuously supervised.
- Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.

**CAUTION — Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.**

## Control

The air curtain has an integrated control system and can be remotely controlled.



208V~

Black  
Brown  
Blue

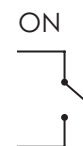
Actuator (remove the quick connector)

Door Switch

External on/off

Eg time switch.

External potential free closure  
= off

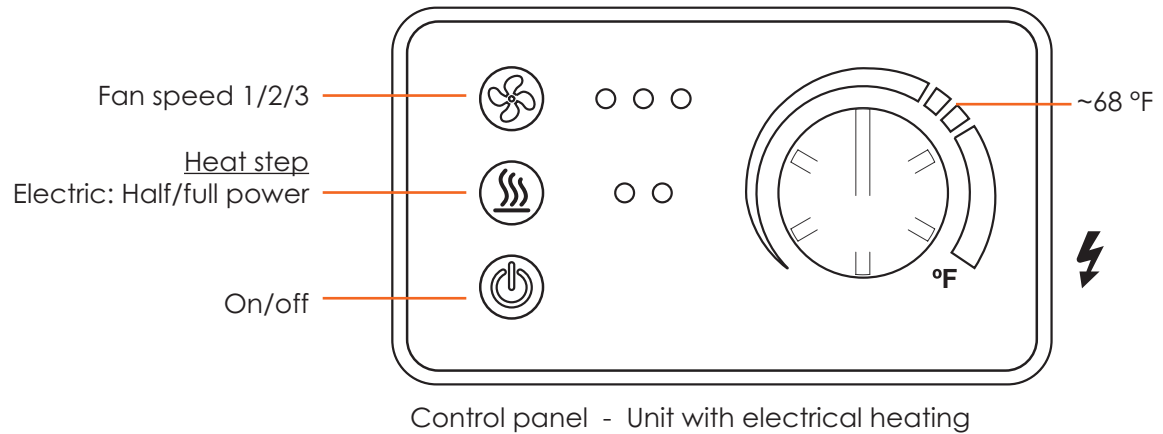
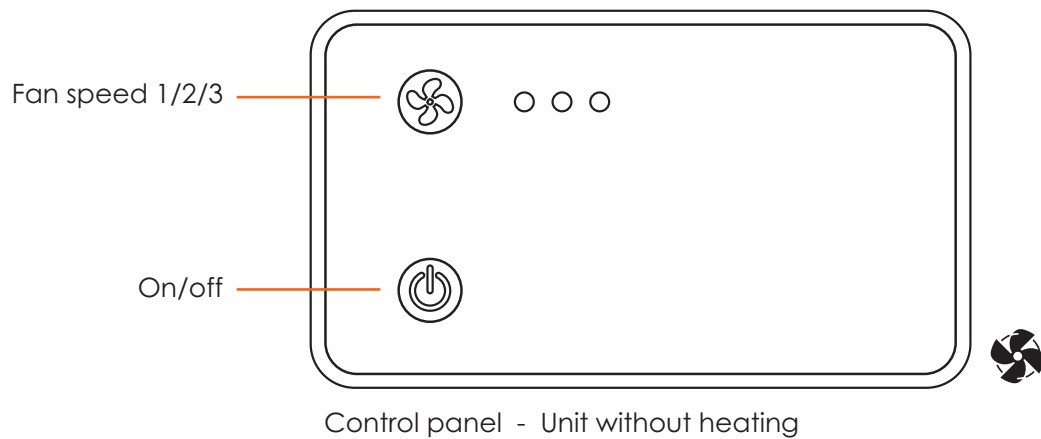
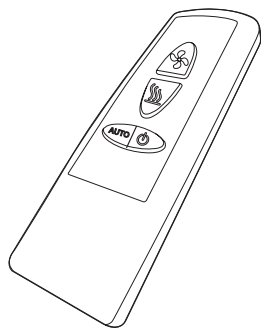


|       |  |   |
|-------|--|---|
| 0-10V |  | 4 |
| HEAT  |  | 3 |
| ALARM |  | 2 |
| WATER |  | 1 |



Factory setting dip-switches - Unit without heating or with electrical heating

Dip Switch 3 is used for Door Contact Switch



Remote control - on/off, fan speed and heating steps

### Functional test

Functional test is started using the remote control.

Push and in



5 seconds



Fan and heatings steps are tested in 10-second intervals which is indicated by lighted LEDs.

When the test is completed, all LEDs will flash for 30 seconds.

### Temperature control

If the temperature exceeds 122 °F, the fan runs at full speed for 2 minutes to vent out the heat, if the temperature rises above 122 °F again during the following 5 minutes overheating alarm is deployed. The red LEDs flash and all the buttons are locked.

1. Disconnect the power supply with the isolator switch.
2. Determine the cause of overheating and rectify the fault.
3. Reconnect the unit.