



OPERATING MANUAL

KOLCU DIŞ TİC. LTD. ŞTİ.

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INTRODUCTION

This manual contains usage and maintenance information for Niva Air Curtains. Please read this manual carefully to operate your device economically with high efficiency and to use it without any problems for a long time.

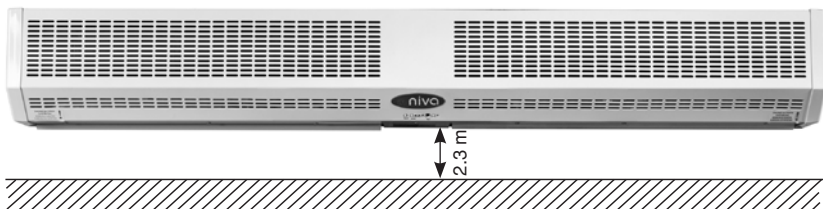
ABOUT

- Niva Air Curtains are produced to create an environment where hot or cold air, dust, toxic gases, cigarette smoke, and insects cannot enter.
- It is mounted above the door on the inside of the entrance doors. It creates a curtain by generating compressed air downwards through the electric motor and the fan inside.
- The device has a high airflow rate and speed. The cycling speed should be adjusted according to the weather conditions.
- Niva Air Curtain has a three-cycle motor speed. If there is a remote control, the speed control and the on-off operation of the device are performed by using the buttons on the fixed control panel or the remote control.
- In the models with a heater, resistance is used with the properties specified in the performance values table. Resistance energy input occurs automatically with the thermostats.
- The device heats the air at room temperature and creates a curtain, so the degree of air temperature also depends on the room temperature.
- Climate class: T (tropical)

WARNING

- ▶ The device should be used to disconnect the room from the outside through an air curtain. It should not be used for heating purposes alone.
- ▶ Some parts of the product may be very hot and cause burns. Particular attention should be paid to where children and incompetent persons are present.
- ▶ This device is not intended for use by persons with physical, sensory, and mental disabilities (including children) or lack of experience and knowledge unless supervision and management of the device are provided by a person responsible for the safety of devices.
- ▶ Children should not play with the device.

The air curtain should not be installed lower than 2.3 meters as seen in the image below.



- This appliance can be used by children 8 years of age and above, and by persons with physical, emotional, or mental disabilities, or lack of experience and knowledge, only if they are supervised or provided information about how to use it safely and if the hazards involved are understood by them.

- Cleaning and user maintenance should not be done by unattended children.

MAINTENANCE

- Maintenance should be carried out for the air curtains by our authorized service every 6 months, especially during seasonal changes.
- The device must be de-energized before maintenance.
- Installation and maintenance of air curtains can be dangerous due to the moving parts and the electric current. Installation, repair, or maintenance of the device should only be carried out by trained and qualified service personnel.
- Water should not be splashed to the inner and outer units of the device. This application may cause electric shock or damage the device.
- The outer surface of your device should be wiped with a damp cloth. Products that are abrasive or contain acid and petroleum should never be used.
- Cleaning and user maintenance should not be done by unattended children.

WARRANTY

Niva Air Curtains are guaranteed for 2 years against material and manufacturing defects, provided that the principles, warnings, and standards specified in the user manual are complied with.

Maintenance of the air curtains should be carried out by our authorized service every 6 months, otherwise, the device will be out of warranty.

- The minimum lifetime for the devices determined by the Ministry of Industry and Trade is 10 years. Per the relevant Law, the manufacturer and seller companies undertake to provide service and spare parts for the device within this period.

QUALITY SAFETY

Niva Air Curtains are produced with superior technology and quality materials within the framework of safety rules and regulations. It has CE and TSE certificates.

ASSEMBLY

For safety, a fuse must be used in the connection of the device. Check the information below for connection types and insurance information.

- In models with heater, electrical installation should be made in accordance with the network voltage values.
- Heated devices should be installed at a height of at least 1.8 meters from the floor. (IEC 60335-2-30)
- 230 V 50 Hz power line is sufficient for air curtains without heating.
- 3 Phase 400 V 3 N50 H electricity line is sufficient for heated air curtains.
- The air intake holes of the device should never be covered. If used in this way, there is additional risk and the device will be out of warranty.
- The device has a grounded supply cable. A ground connection must be made.
- Check the tables for the technical details of the device.

MODEL	1-15 mt	15-50 mt
WITH HEATER	5x6 mm nyf cable	5x10 mm nyf cable
WITHOUT HEATER	3x1.5 mm nyf cable	3x2.5 mm nyf cable
WITH WATER AND STEAM SERPENTINE	3x1.5 mm nyf cable	3x2.5 mm nyf cable

Fuses to be used for 3 phase power supply must be per the table below.

Device thermal power (kW)	Fuse to be used (Amp /Phase)
5/7/09	32
5/10/12	40
5/13/21	40

INSTALLATION

UNPACKING THE DEVICE

Check if there is a deformation in your device. Shipping malfunctions should be immediately reported to the shipping clerk and the seller.

Do not let children play with the packaging materials.

LOCATION OF THE DEVICE

Your device can be mounted on a wall or ceiling, depending on the position of your door. Have your device mounted by our nearest authorized service. The points need to be considered in product installation are given with pictures in the user manual.

- Before installing the models with a heater, have the necessary electrical installation installed by a qualified electrician.

Before the installation, check the values specified in the user manual.

ELECTRIC CONNECTION OF THE DEVICE

There are electrical connection cables in the rear terminal box of the device. Cables should be connected to cable ends from the electrical network. Check the electrical connection diagrams for cable connections.

- Children under 3 years old should be kept away from the device unless under constant supervision.
- Children between the ages of 6 and 8 can only turn the device on and off if the device is placed in the intended normal use position and the instructions for safe use of the device have been given and understood.
- Children between the ages of 3 and 8 should not plug in, arrange, clean, or maintain the device.

OPERATION AND USE

- In models with a heater, when the device is turned off while the resistances are working, energy input to the resistors is cut off, but the motor that turns the fan remains in operation until the resistance temperature decreases and turns off automatically after a short time. In the meantime, the fuse should not be turned off.
- Please read the user manual carefully to operate your device efficiently. Your device is ready to be used after the electrical connection is made.
- Children should be supervised to ensure they do not play with the device.
- This device can be used by children 8 years of age or above, and by persons with physical, emotional, or mental disabilities, or lack of experience and knowledge, only if they are supervised or provided with information about how to use it safely and if the hazards involved are understood by them.

Turn the device on and off with the remote control.

AIR CURTAIN MODEL WITH A HEATER AND REMOTE CONTROL

Press On/Off button to operate the heated model air curtain. Adjust the engine speed per the weather conditions with the speed adjustment button of your device. You must adjust the heating function of the device according to the weather conditions.

You can adjust the heater capacity with the resistance switch according to the temperature of the air in the environment. Resistance switches have double contacts. One of the contacts operates one of the resistors on the right side and the other operates one of the resistors on the left side in the same row. If only the first level is operated, a total of two resistors, one from the right and one from the left side, will be activated, while four resistances will be activated at the second level and six will be activated at the third level, which is all of the resistances. (You can also carry out these operations using the remote control.)

- It is recommended to adjust the heating cycle according to the temperature in the environment.

*To turn off the device, use **On/Off** button or the remote control.*

WARNING: Turn off your device using the “**On/Off**” button on it. Do not turn off from the power switch. There is a heat control system in your device. For this system to work, please pay attention to our operating information and warning.

AIR CURTAIN WITHOUT A HEATER WITH REMOTE CONTROL

You can use the remote control or the buttons on the product to operate the remote-controlled air curtain without a heater. Press On/Off button among the buttons on the product. Adjust the engine speed in accordance with the weather conditions with the speed adjustment button of your device. Your device will start working at the level you set.

- Press On/Off button when you wish to operate the device using your remote control.
- Press the cycle button to increase the speed. Each time you press the cycle button, the speed of the device will increase.
- Press the button after the last cycle. The speed will drop when you press the button after the last cycle.
- Press On/Off button to turn it off.

IF AIR CURTAIN DO NOT WORK

In case of air curtain does not work, before contacting the service;

- **Are the necessary electrical values for the device available at the device entrance?.**

In case of excessive fluctuation in the electrical network, your device will not work efficiently.
Get help from a licensed electrician on the subject.

- **Has your device been serviced on time?**

Failure to perform timely maintenance may cause fan problems.

If the fan do not rotate, it may cause greater damage as the engine is strained.

In case of a fan problem, cut off the power of the device.

- **If the remote does not work;**

Control the batteries. Check if the battery caps are making contact.

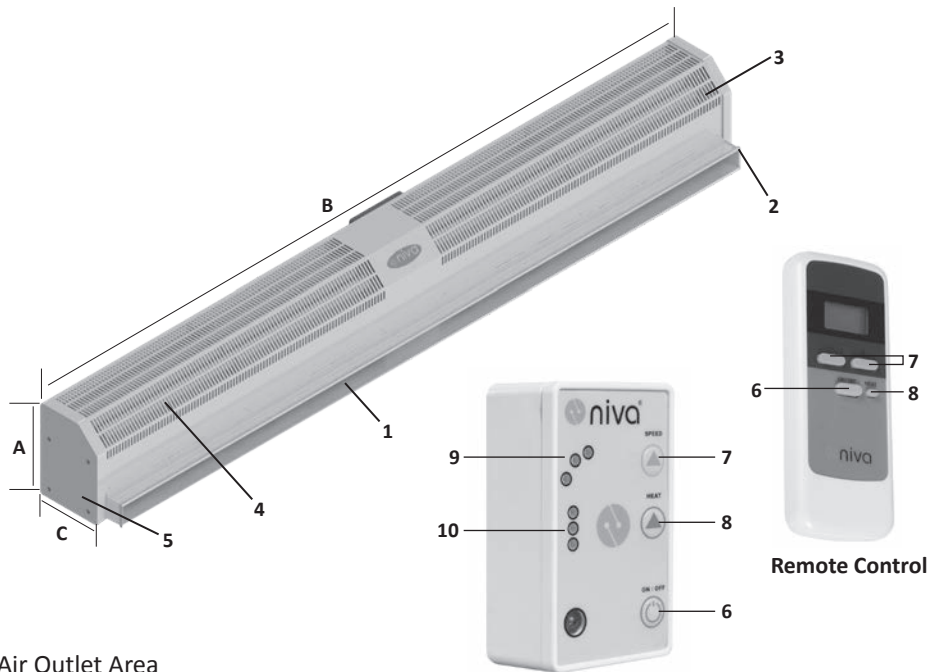
- **If your product does not have sufficient air speed;**

Make sure not to block the air intake layer.

- **If there is excessive sound and vibration in the product;**

Check if the fans are damaged. If the fans are damaged, contact our nearest service.

NIVA LIFE COMMERCIAL TYPE AIR CURTAINS



1. Air Outlet Area
2. Air Guide Flaps
3. Air Inlet Area
4. Resistance
5. Side Hatch
6. On/Off Button
7. Motor/Speed Control Button
8. Heat Control Button
9. Speed Indicator
10. Heat Level Indicator

Wired Control

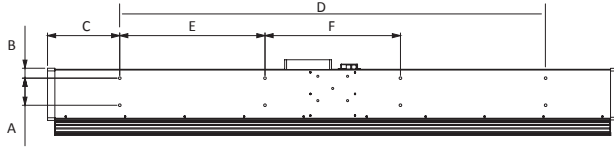
Remote Control

DIEMENSIONS			
	A (mm)	B (mm)	C (mm)
H100/HS100	264	1084	280
H120/HS120	264	1289	280
H140/HS140	264	1494	280
H160/HS160	264	1709	280
H180/HS180	264	1909	280
H200/HS200	264	2109	280
H250/HS250	264	2580	280

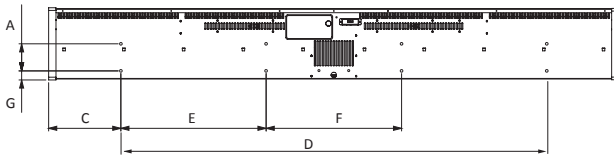
CODES							
DOOR WIDTH	1.0 m	1.2 m	1.4 m	1.6 m	1.8 m	2.0 m	2.5 m
WITH HEATER	KLC-H100	KLC-H120	KLC-H140	KLC-H160	KLC-H180	KLC-H200	KLC-H250
WITHOUT HEATING	KLC-HS100	KLC-HS120	KLC-HS140	KLC-HS160	KLC-HS180	KLC-HS200	KLC-HS250

NIVA LIFE COMMERCIAL TYPE AIR CURTAINS MOUNTING DETAILS

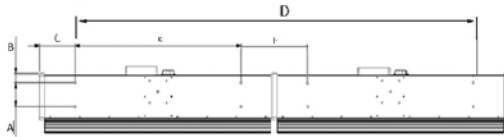
Wall Mounting Dimensions (Except For H250 / HS250)



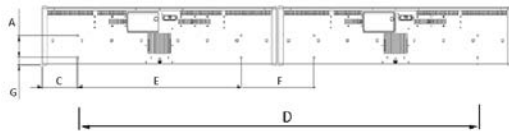
Ceiling Mounting Dimensions (Except For H250 / HS250)



Ceiling Mounting Dimensions (For Only H250 / HS250)



Ceiling Mounting Dimensions (For Only H250 / HS250)

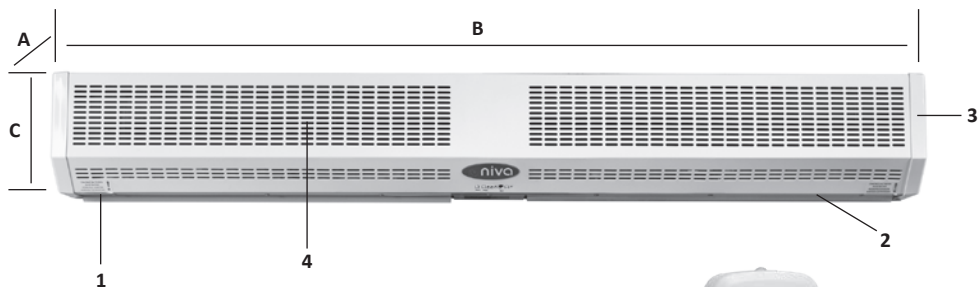


MOUNTING DIMENSIONS (mm)

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
H100/HS100	100	37	167	750	-	-	34
H120/HS120	100	37	194.5	900	-	-	34
H140/HS140	100	37	222	1050	-	-	34
H160/HS160	100	37	217	1275	-	-	34
H180/HS180	100	37	267	1439	437	501	34
H200/HS200	100	37	267	1575	537	501	34
H250/HS250	100	37	190	2200	-	-	34

- Mounting Apparatus Length: 19 cm
- There should be at least 8 cm distance between the door opening part and the end of the mounting apparatus.

NIVA LINDA GENERAL TYPE AIR CURTAINS



1. Air Outlet Area
2. Air Guide Flap
3. Air Inlet Area
4. Side Hatch
5. On/Off Button
6. Motor/Speed Control Button
7. Heat Control Button

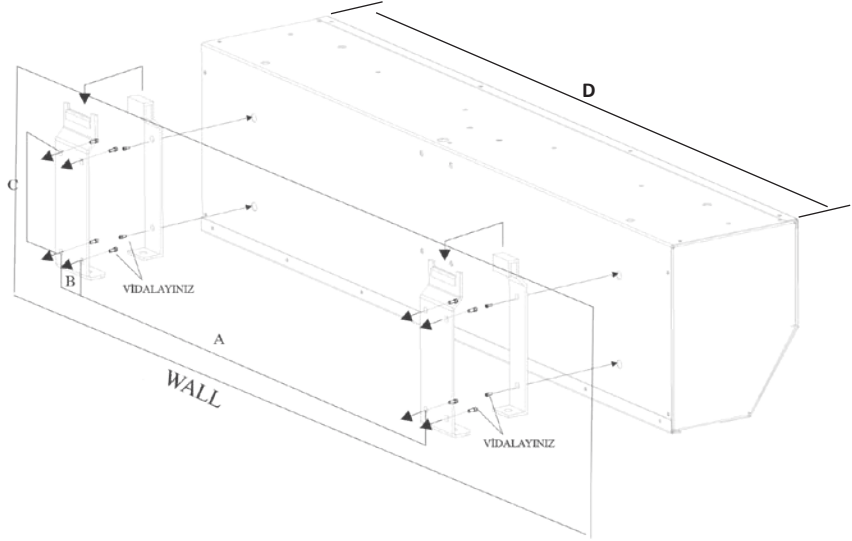


Remote Control

DIMENSIONS			
	A (mm)	B (mm)	C (mm)
LH/L100	180	1080	280
LH/L120	180	1285	280
LH/L140	180	1494	280
LH/L160	180	1709	280
LH/L180	180	1909	280
LH/L200	180	2109	280

CODES						
DOOR WIDTH	1.0 m	1.2 m	1.4 m	1.6 m	1.8 m	2.0 m
WITH HEATER	KLC-LH100	KLC-LH120	KLC-LH140	KLC-LH160	KLC-LH180	KLC-LH200
WITHOUT HEATING	KLC-L100	KLC-L120	KLC-L140	KLC-L160	KLC-L180	KLC-L200

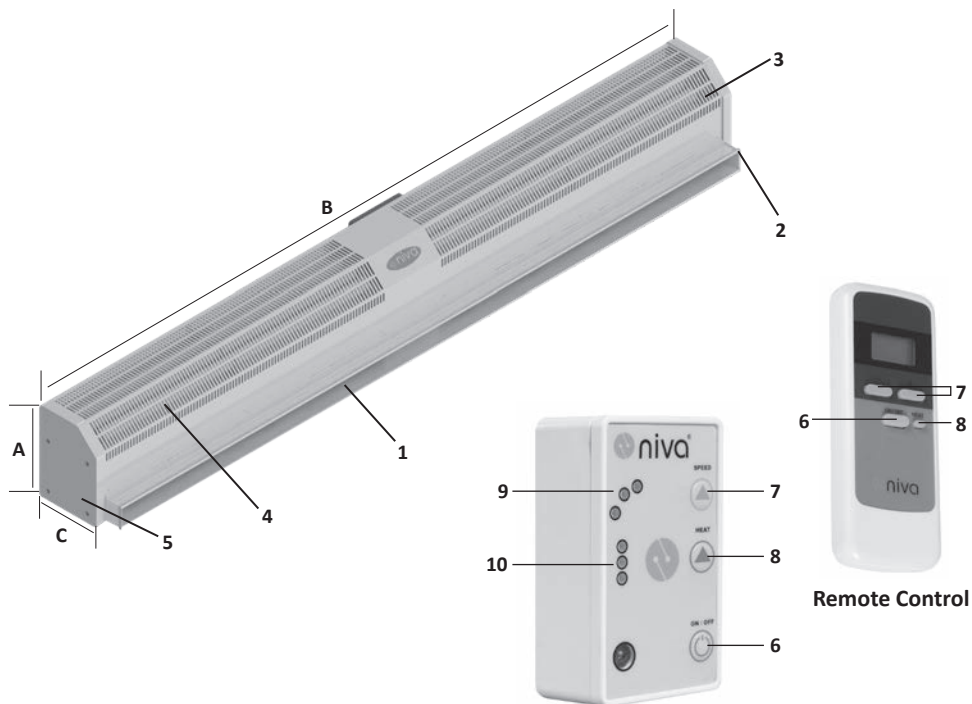
NIVA LINDA GENERAL TYPE AIR CURTAINS MOUNTING DETAILS



MOUNTING DIMENSIONS				
	A (mm)	B (mm)	C (mm)	D (mm)
KLC-LH/L100	700	50	115	700
KLC-LH/L120	900	50	115	900
KLC-LH/L140	1100	50	115	1100
KLC-LH/L160	1270	50	115	1270
KLC-LH/L180	1500	50	115	1500
KLC-LH/L200	1700	50	115	1700

- Mounting Apparatus Length: 19 cm
- There should be at least 8cm distance between the door opening part and the end of mounting apparatus.

NIVA VITO WATER COILED AIR CURTAINS



1. Air Outlet Area
2. Air Guide Flaps
3. Air Inlet Area
4. Water Coil
5. Side Hatch
6. On/Off Button
7. Motor/Speed Control Button
8. Heat Control Button
9. Speed Indicator
10. Heat Level Indicator

Wired Control

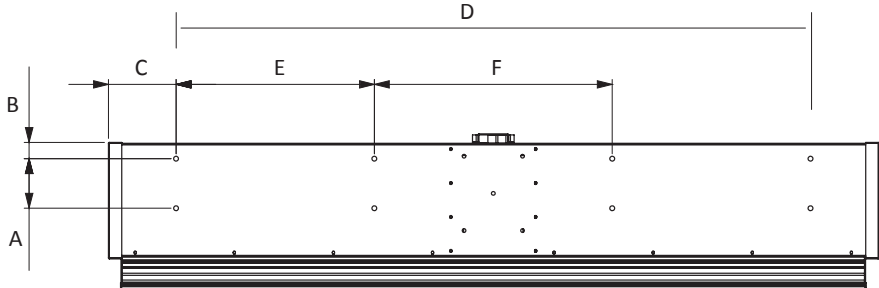
DIMENSIONS			
	A (mm)	B (mm)	C (mm)
VAP120	298	1281	250
VAP140	298	1489	250
VAP160	298	1715	250
VAP180	298	1910	250
VAP200	298	2105	250

CODES

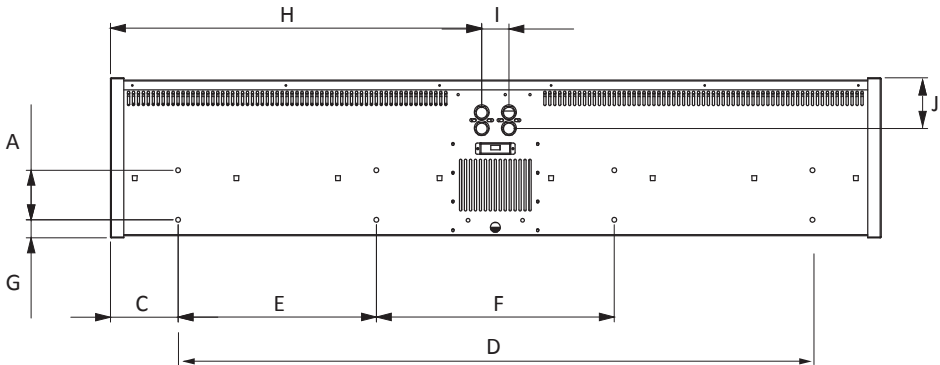
DOOR WIDTH	1.2 m	1.4 m	1.6 m	1.8 m	2.0 m
SU SERPANTINI	KLC-VAP120	KLC-VAP140	KLC-VAP160	KLC-VAP180	KLC-VAP200

NIVA VITO WATER COILED AIR CURTAINS MOUNTING DETAILS

Wall Mounting Dimensions



Ceiling Mounting Dimensions

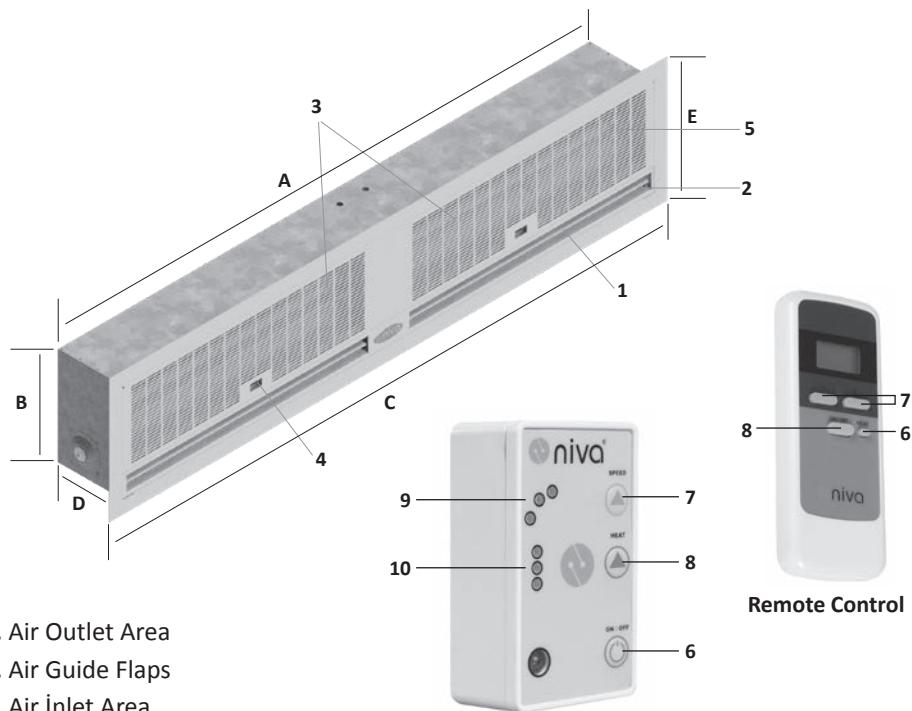


MOINTING DIMENSIONS

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)
VAP120	100	35	185	90	-	-	35	583	88	35
VAP140	100	35	218	1049	-	-	35	705	88	35
VAP160	100	35	220	1285	-	-	35	816	88	35
VAP180	100	35	261	1425	245	535	35	913	88	35
VAP200	100	35	266	1581	540	501	35	101	88	35

- Mounting Apparatus Length: 19 cm
- There should be at least 8cm distance between the door opening part and the end of mounting apparatus.

NIVA SMART BUILT-IN AIR CURTAINS



1. Air Outlet Area
2. Air Guide Flaps
3. Air Inlet Area
4. Resistance
5. Side Hatch
6. On/Off Button
7. Motor/Speed Control Button
8. Heat Control Button
9. Speed Indicator
10. Heat Level Indicator

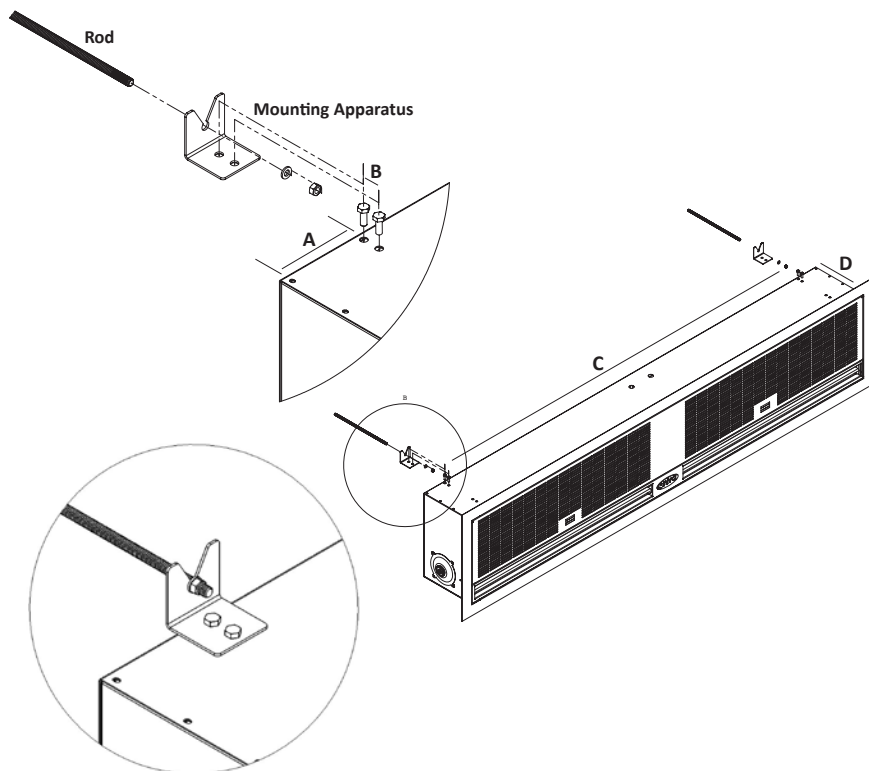
Wired Control

Remote Control

DIMENSIONS					
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
AKS/KST120	1240	395	1380	260	530
AKS/KST140	1440	395	1585	260	530
AKS/KST160	1680	395	1810	260	530
AKS/KST180	1880	395	2015	260	530
AKS/KST200	2107	395	2210	260	530

CODES					
DOOR WIDTH	1.2 m	1.4 m	1.6 m	1.8 m	2.0 m
WITH HEATER	KLC-AKS120	KLC-AKS140	KLC-AKS160	KLC-AKS180	KLC-AKS200
WITHOUT HEATING	KLC-KST120	KLC-KST140	KLC-KST160	KLC-KST180	KLC-KST200

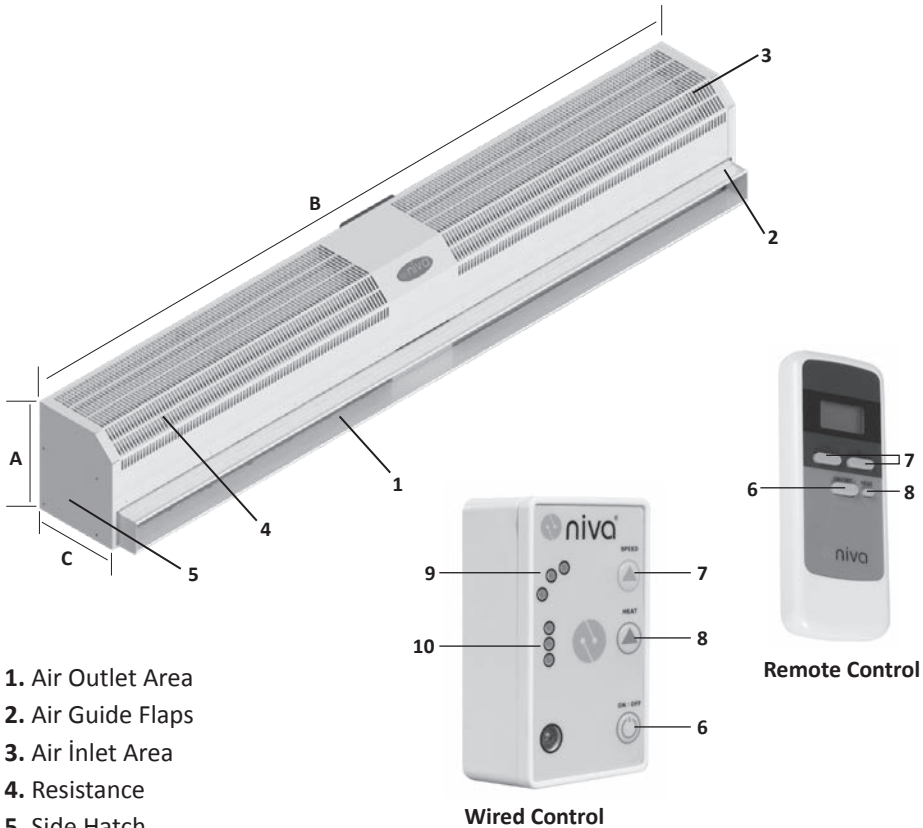
NIVA SMART BUILT-IN AIR CURTAINS CEILING MOUNTING



MOUNTING DIMENSIONS				
	A (mm)	B (mm)	C (mm)	D (mm)
AKS/KST120	100	20	1040	123
AKS/KST140	100	20	1240	123
AKS/KST160	100	20	1475	123
AKS/KST180	100	20	1675	123
AKS/KST200	100	20	1875	123

- Mounting Apparatus Length: 19cm
- For mounting, there should be at least 5cm additional length for A, B and D.

NIVA LENA INDUSTRIAL TYPE AIR CURTAINS WITH HEATER



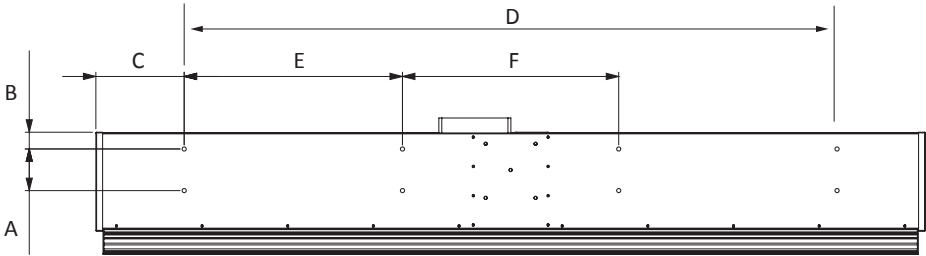
1. Air Outlet Area
2. Air Guide Flaps
3. Air Inlet Area
4. Resistance
5. Side Hatch
6. On/Off Button
7. Motor/Speed Control Button
8. Heat Control Button
9. Speed Indicator
10. Heat Level Indicator

DIMENSIONS			
	A (mm)	B (mm)	C (mm)
EDSH6010	298	329	1062
EDSH6015	298	329	1568
EDSH6020	298	329	1995

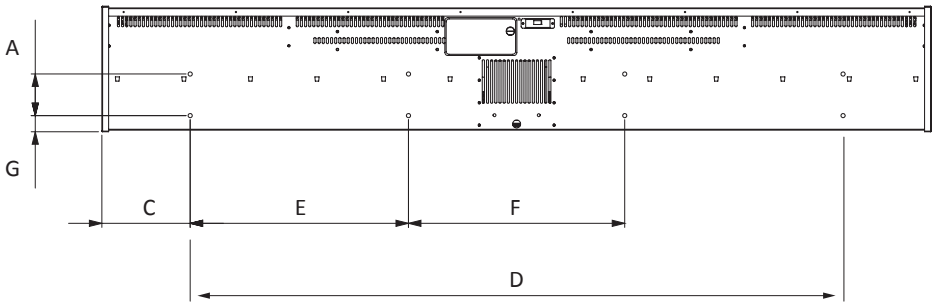
CODES			
DOOR WIDTH	1.0 m	1.5 m	2 m
WITH HEATER	KLC-EDSH6010	KLC-EDSH6015	KLC-EDSH6020

NIVA LENA INDUSTRIAL TYPE AIR CURTAINS WITH HEATER MOUNTING DETAILS

Wall Mounting Dimensions



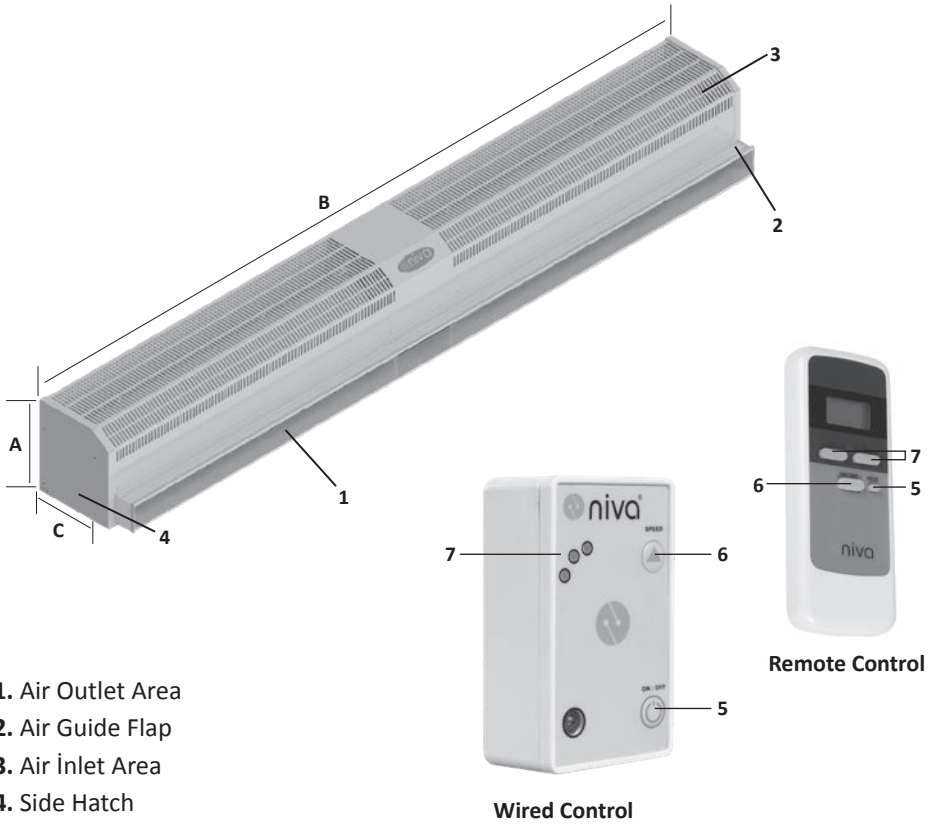
Ceiling Mounting Dimensions



MOUNTING DIMENSIONS							
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
EDSH6010	100	39	236	590	-	-	24
EDSH6015	100	41.5	229	1110	340	430	32
EDSH6020	100	40.5	212.5	1570	525	520	39

- Mounting Apparatus Length: 19 cm
- There should be at least 8cm distance between the door opening part and the end of mounting apparatus.

NIVA LENA INDUSTRIAL TYPE AIR CURTAINS



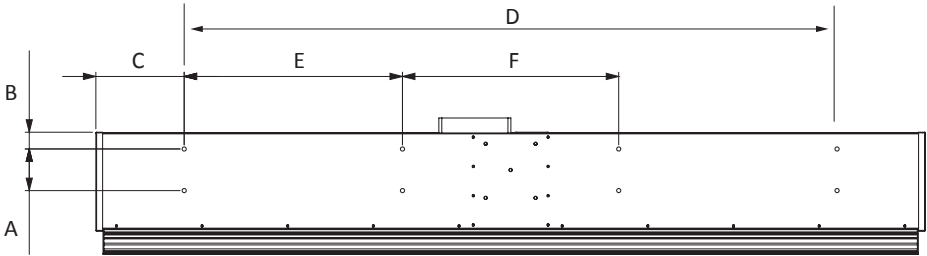
1. Air Outlet Area
2. Air Guide Flap
3. Air Inlet Area
4. Side Hatch
5. On/Off Button
6. Motor/Speed Control Button
7. Speed Indicator

DIMENSIONS			
	A (mm)	B (mm)	C (mm)
EDS6010	247	1054	299
EDS6015	247	1554	299
EDS6020	247	1984	299

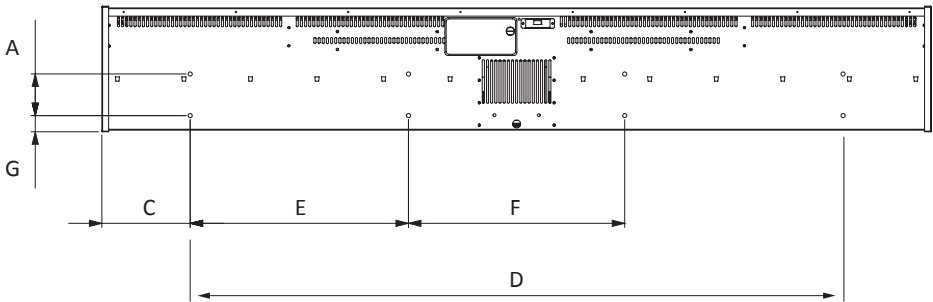
CODES			
DOOR WIDTH	1.0 m	1.5 m	2 m
WITHOUT HEATING	KLC-EDS6010	KLC-EDS6015	KLC-EDS6020

NIVA LENA INDUSTRIAL TYPE AIR CURTAINS WITHOUT HEATER MOUNTING DETAILS

Wall Mounting Dimensions



Ceiling Mounting Dimensions



MOUNTING DIMENSIONS							
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
EDS6010	100	23	232	590	-	-	20
EDS6015	100	23	232	1090	240	610	20
EDS6020	100	23	252	1480	450	580	20

- Mounting Apparatus Length: 19 cm
- There should be at least 8cm distance between the door opening part and the end of mounting apparatus.

REMOTE CONTROLLER USE

In air curtain models with wired remote controller, the wired remote works as a receiver. For this reason, the remote controller should be used in a way that the receiver can see it. The signal sent from the remote controller is sensed by the wired controller and transmitted to the main card to perform the operation, and the device is controlled in this way..

Devices without wired remote controller have a receiver (under the Niva logo) on the device. The device detects the signals sent from the remote controller with this receiver, and the device is controlled in this way with a message sent to the main card.

Remote control types used according to device codes are given in the table below.

	Heater Wired Controller	Non-Heater Wired Controller	Remote Controller
KLC-H100/120/140/160/180/200	+		+
KLC-HS100/120/140/160/180/200		+	+
KLC-LH100/120/140/160/180/200			+
KLC-L100/120/140/160/180/200			+
KLC-AKS120/140/160/180/200	+		+
KLC-KST120/140/160/180/200		+	+
KLC-VAP120/140/160/180/200	+		+
KLC-EDSH6010/6015/6020	+		+
KLC-EDS6010/6015/6020		+	+

REMOTE CONTROL MANUEL

- Press the On/Off button to operate the air curtain. The device will be activated at the first speed level.
- The fan speed, which has three levels in total, is increased with the “+” key and decreased with the “-” key.
- Press the “HEAT” button for temperature control, the resistors in the first stage are activated at the first touch. Each time this button is pressed, the heater changes the steps as 1-2-3-OFF-1-2-3-OFF.
- Press the On/Off button to turn off the device.

In case the heater is not activated, the air curtain directly switches off after pressing the button.

When the heater is on, the air curtain resistors continue to operate in the first cycle for 120 seconds for cooling and turn off.

Not: For infrared remote control devices with LCD screens, make sure that the screen on the remote is turned on before re-controlling the operating device.

If the screen is off, turn the remote to a different direction that the device cannot detect and press it. After the screen is turned on, you can control the device.



Remote Control



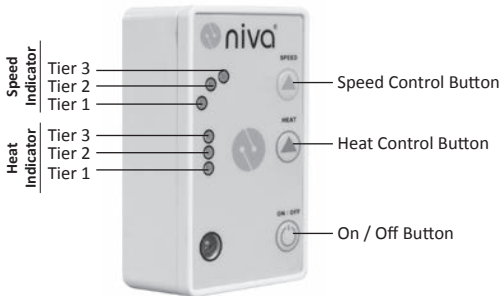
**Infrared Remote Controller
with LCD Screen**

WIRED REMOTE CONTROLLER OPERATION MANUAL

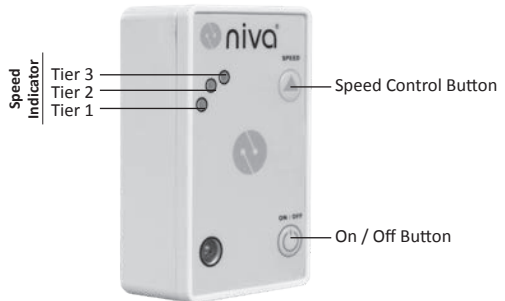
- Connect the wired controller to the device with the 3-meter-long connection cable sent with the device.
- Place the wired controller on the device or the wall so that the signal can be received from the remote controller.
- Press the On/Off button to turn on the air curtain, the device will be activated on the first stage.
- Press the "SPEED" button to increase the fan speed. When you press the same button for the fourth time, it will return to the first fan stage. Each press of this button changes the engine speed as 1-2-3-1-2-
- Press the "HEAT" button to adjust/control the temperature, the first stage resistances are activated at the first touch, the heater changes the steps as 1-2-3-OFF-1-2-3-OFF.
- Make sure you have pressed the button 4 times to turn off the heater function of the device.
- Press the On/Off button to turn the device off.

In case the heater is off, the air curtain switches off once the "on/off" button is pressed.

In case the heater is on, the air curtain resistors continue to operate in the first cycle for 120 seconds for cooling and turn off.

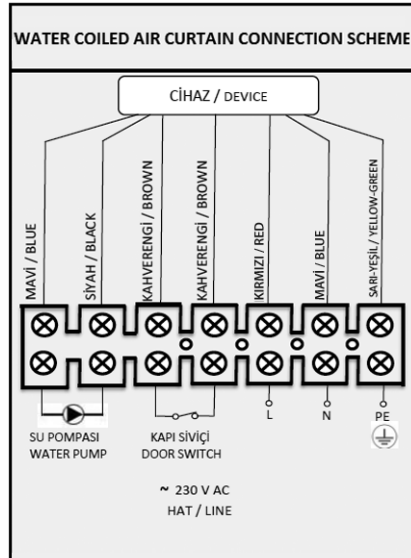
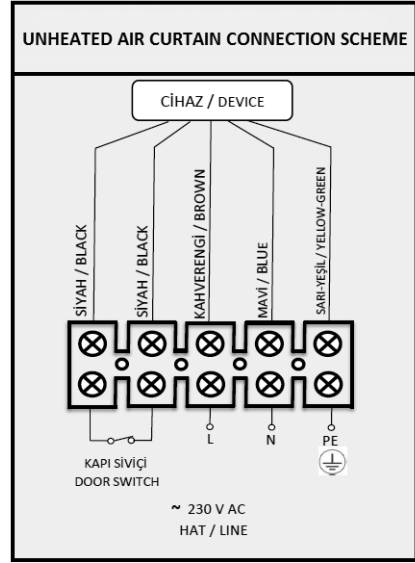
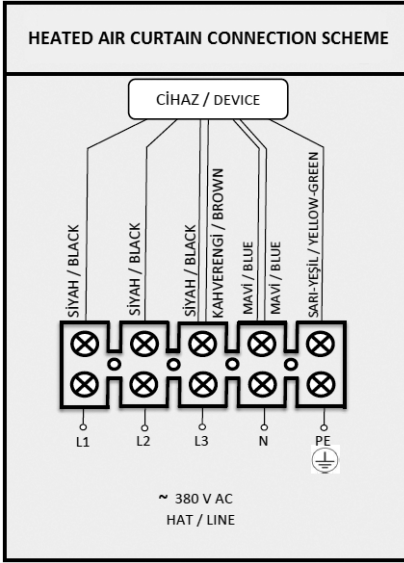


Heated Wired Controller

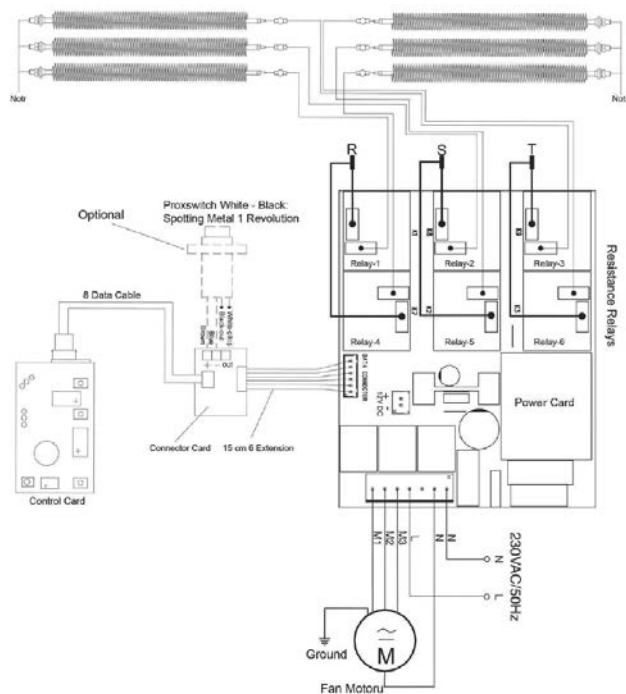


Unheated Wired Controller

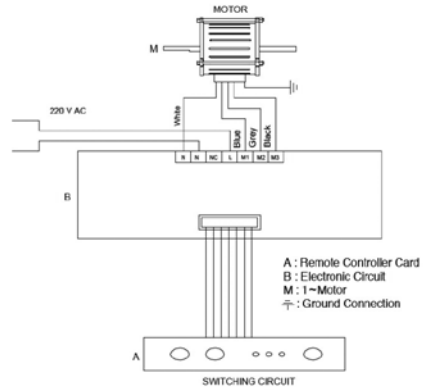
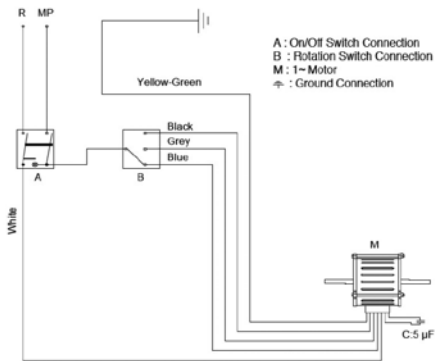
CONNECTION DIAGRAM



ELECTRICAL DIAGRAM OF THE AIR CURTAIN MODEL WITH HEATER



ELECTRICAL DIAGRAM OF THE AIR CURTAIN MODEL WITHOUT HEATER



Notes



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