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BERNER® AIR CURTAINS

Industrial Direct Drive Air Curtain Series #IDC12 & IDC14

WHEN THE DOORS ARE OPEN™ save energy & create healthy, comfortable environments

Installation & Maintenance Instructions

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Thank you for choosing Berner.

Berner International has been saving energy and creating healthy, comfortable environments for our customers for over 60 years. Berner offers unmatched quality, performance, and dependability—not to mention our service. At Berner, we stand behind our products.

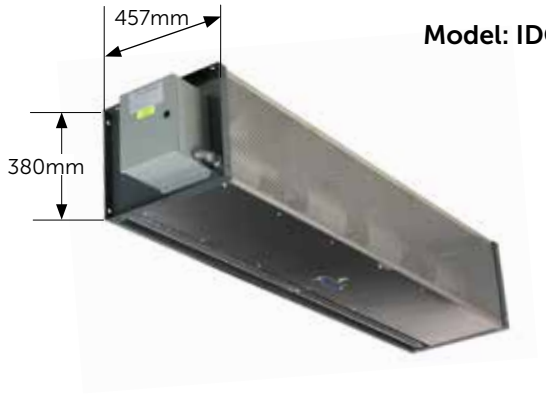
Made in USA

READ ALL INSTRUCTIONS BEFORE INSTALLING OR USING AIR CURTAIN

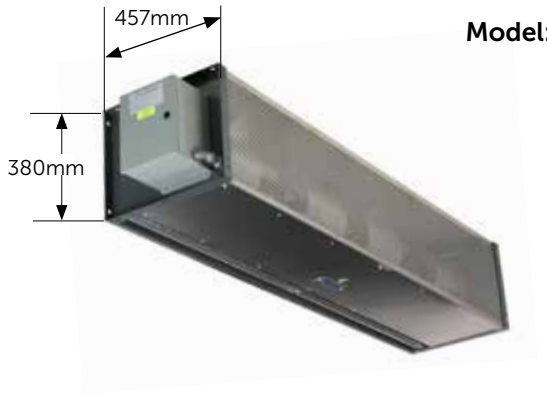
II-230 EUROPE
March, 2025

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

A. Read all instructions before installing or using this air curtain.
B. Use this unit only in the manner intended by the manufacturer and described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons. If you have any questions, contact the manufacturer.
C. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
D. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable national and local codes having jurisdiction, including fire-rated construction. See page 5, ELECTRICAL CONNECTIONS (NEC Code ANSI/NFPA No. 70).
E. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
F. To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the air curtain.
G. This air curtain is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, etc. and curtains at least 25mm from the top, back, front, sides and at least 1829mm from the discharge of the air curtain.
H. Extreme caution is necessary when any air curtain is used by or near children or invalids, and whenever the heater is left operating unattended.
I. Do not operate any air curtain after it malfunctions. Disconnect power at the service panel and have the air curtain inspected by a reputable electrician before reusing.
J. To disconnect the air curtain, turn controls to "off", and turn off power to the air curtain circuit at main disconnect panel.
K. Do not insert or allow foreign objects to enter any ventilation or discharge opening as this may cause an electric shock or fire, or damage the air curtain.
L. To prevent a possible fire, do not block the air intake or discharge of the air curtain in any manner.
M. The air curtain has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
N. This heater may include an audible or visual alarm to warn that parts of the heater are getting excessively hot. If the alarm sounds (or illuminates), immediately turn the heater off and inspect for any objects on or adjacent to the heater that may have blocked the airflow or otherwise caused high temperatures to have occurred. DO NOT OPERATE THE HEATER WITH THE ALARM SOUNDING (OR ILLUMINATING).



Model: IDC12



Model: IDC14

I. UNCRATING

Carefully examine the carton(s) for damage. If the carton is damaged, immediately notify the shipping company. **Do not delay in filing a claim.** If the air curtain(s) were shipped on wooden skids, remove protective wood and banding straps securing the carton(s) to the skid. Open the carton(s) and remove all protective packaging.

Immediately verify that the electrical rating nameplate located on the cover matches the electrical power supply available. Retain the shipping carton(s) until the air curtain(s) are installed and properly operating.

ACCESSORIES: If the air curtain(s) were ordered with optional electrical accessories, the accessories will be found in the carton containing the air curtain packed in a red bag (marked "additional parts inside") or in a separate carton(s) accompanying the air curtain(s).
Check all of the cartons/skids for accessories before discarding.

II. MOUNTING INSTRUCTIONS (General)

(General Notes for All Mounting Configurations)

INDOOR MOUNTING - Environmental/Insect/Dust Control

OUTDOOR MOUNTING (Unheated Only) - Insect/Dust Control

A. Berner IDC12/IDC14 air doors are designed to be mounted by their end flanges without the need for intermediate support. Each end flange contains (8) total 13mm holes located on all (4) sides to facilitate mounting flexibility and the easy addition of mounting accessories. Units may be attached to the wall directly, suspended from overhead, or supported by brackets. The style of door will determine the best mounting method and; as a general rule, use the mounting configuration that positions the air door as close to the top of the doorway as possible without interfering with door operation.

B. The IDC12/IDC14 Series air door is designed to be an effective barrier against cold drafts in the winter and hot air in the summer. To achieve optimum protection, the unit should be mounted on the inside of the building, flush to the wall and as close to the top of the door opening as possible. To ensure peak performance keep the air stream free of obstructions. If the air door cannot be installed flush with the wall, be sure to seal the gap between the wall and the back of the air door along the entire length of the unit to prevent airflow through this void.

C. **The air door will not perform properly if negative air pressure exists in the building. Under these conditions, a means for makeup air to the building must be provided so that the air pressure on both sides of the opening is in balance.**

D. Before mounting the air door, check the supporting structure to verify that it has sufficient load-carrying capacity to support the weight of the unit(s). The mounting hardware (supplied by others) should be capable of supporting a minimum of three (3) times the weight of the unit. ***See Tables 1 & 2.***

E. The air door is weatherproof. Therefore, no special covering is required when outdoor mounting unheated, steam, or hot water units.

NOTE: Electric heated units are to be installed indoors only.

F. **IMPORTANT:** A minimum of 102mm (203mm preferred) clearance is recommended above the top of the air door for the installation and removal of the screen or to gain access to junction boxes.

G. When determining the mounting location for the unit(s), make sure that nothing interferes with the curtain of air developed when the discharge vanes are directed from 0° to 20° toward the door opening. If the air stream strikes any obstruction (the top edge of the doorway, a door opening device, etc.), the effectiveness of the unit will be greatly reduced. ***See Figure 1.***

H. For optimum performance, the bottom of the unit (discharge nozzle) should be no more than 25mm above the top of the door opening with the unit mounted flush to the wall. If the unit must be mounted higher, it must be **spaced out** from the wall **10mm for every 25mm** the unit is above the door opening. ***See Figure 2.***

Model	Weight by Unit Type (kgs.)				
	Ambient	Electric Heat	Steam Heat	Hot Water Heat	Indirect Gas Heat*
IDC12-1036	41	44	59	59	57
IDC12-1042	46	49	66	66	57
IDC12-1048	49	52	72	72	57
IDC12-1060	54	57	81	81	57
IDC12-2060	73	78	99	99	59
IDC12-2072	76	81	104	104	59
IDC12-2078	81	86	111	111	59
IDC12-2084	85	91	117	117	59
IDC12-2096	92	98	128	128	59
IDC12-3096	106	114	142	142	66
IDC12-2108	96	102	134	134	59
IDC12-3108	114	122	152	152	66
IDC12-2120	100	106	141	141	59
IDC12-3120	123	132	164	164	66
IDC12-3132	131	139	177	177	66
IDC12-3144	138	146	187	187	66
IDC12-4144	152	163	201	201	102
IDC12-4156	161	172	214	214	2 @ 59
IDC12-4168	171	181	226	226	2 @ 59
IDC12-4180	177	188	237	237	2 @ 59
IDC12-5180	190	204	250	250	2 @ 66
IDC12-4192	184	195	247	247	2 @ 59
IDC12-5192	197	211	260	260	2 @ 66

* Weight includes heater and duct transition

TABLE 1 - Weight Chart

Model	Weight by Unit Type (kgs.)				
	Ambient	Electric Heat	Steam Heat	Hot Water Heat	Indirect Gas Heat*
IDC14-1036	42	45	60	60	57
IDC14-1042	47	50	67	67	57
IDC14-1048	51	54	73	73	57
IDC14-1060	55	58	82	82	57
IDC14-2060	74	79	101	101	66
IDC14-2072	77	83	105	105	66
IDC14-2078	82	88	112	112	66
IDC14-2084	87	92	118	118	66
IDC14-2096	93	99	129	129	66
IDC14-3096	107	115	143	143	122
IDC14-2108	98	103	136	136	66
IDC14-3108	115	123	153	153	122
IDC14-2120	102	107	142	142	66
IDC14-3120	125	133	166	166	122
IDC14-3132	132	141	178	178	129
IDC14-3144	139	147	188	188	129
IDC14-4144	153	164	202	202	129
IDC14-4156	162	173	229	229	2 @ 66
IDC14-4168	172	183	242	242	2 @ 66
IDC14-4180	179	190	254	254	2 @ 66
IDC14-5180	191	205	267	267	2 @ 102
IDC14-4192	185	196	265	265	2 @ 66
IDC14-5192	199	212	279	279	2 @ 102

* Weight includes heater and duct transition

TABLE 2 - Weight Chart

I. **Electric heated units shall:**

1. Have a minimum clearance of at least 25mm between the sides and top of the unit and any combustible material.
2. Have a minimum clearance of at least 1.8mm between the bottom of the unit and the floor.
3. Be installed indoors only.

J. **Proceed to one of the following sections, depending on application and door type:**

Section III: Wall Mounting

Section IV: Suspended Mounting

Section V: Vertical Mounting

Section VI: Tandem Mounting Brackets for Vertical

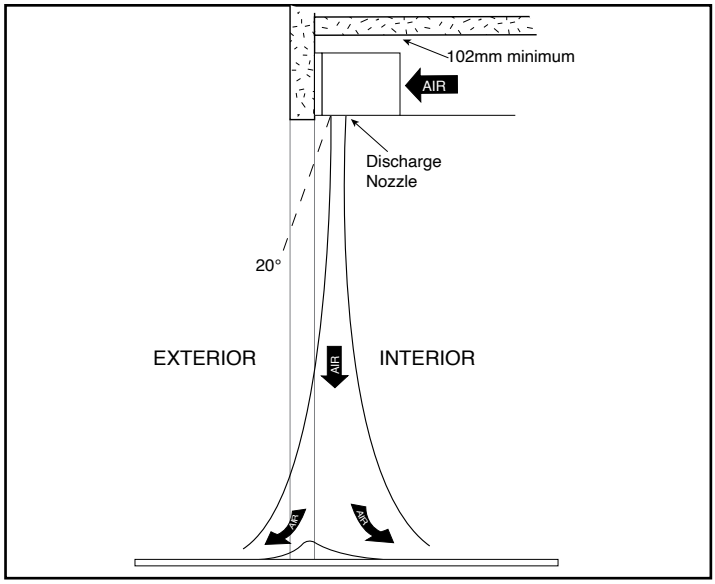


Figure 1

III. WALL MOUNTING

A. Wall mounting works well with standard hinged doors or sliding doors.

B. The IDC12/IDC14 Series end plates are equipped with 13mm holes for wall mounting. The unit may be attached to the wall using, at minimum, M10 bolts through the holes on the back of the end plate. ***See Figure 3.*** Or, the unit may be attached using an optional wall mounting bracket or a combination of extension and wall mounting brackets (available from Berner) attached to the holes on the top of the end plate and the wall. ***See Figure 4.***

C. **Electrical Connections -** Proceed to **Section VII.**

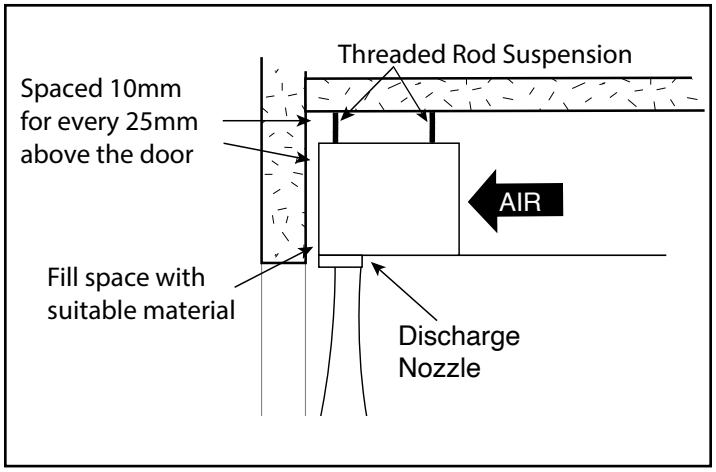


Figure 2

IV. SUSPENDED MOUNTING

A. Suspended mounting works well with the majority of door types commonly found in an industrial setting, such as roll-up doors, "high rise" track doors, "low-rise" turn back doors, and "high-rise" turn back doors.

B. The IDC12/IDC14 Series end plates are equipped with 13mm holes for suspended mounting. The unit may be suspended using a minimum M10 suspension rod ***(Figure 5)***, or using M10 suspension rods and extension brackets (available from Berner). ***See Figure 6.***

C. **Electrical Connections -** Proceed to **Section VII.**

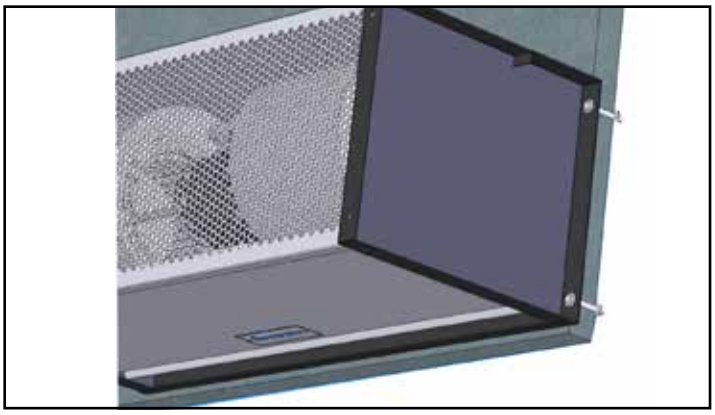


Figure 3 Wall Mounting

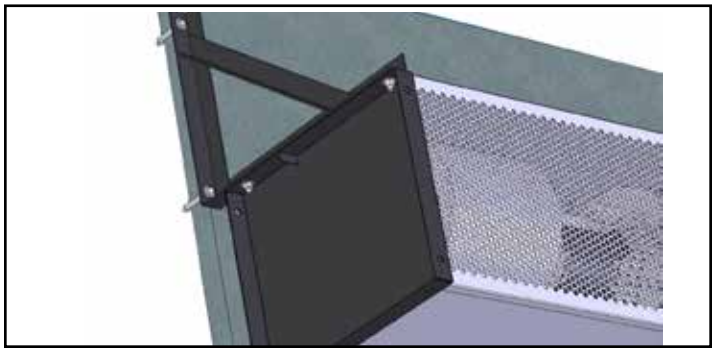


Figure 4 Wall Mounting Bracket

V. VERTICAL MOUNTING

A. Vertical mounting works well when the opening is taller than it is wide, or when the door type prevents a typical "over-door" mounting position.

B. Optional Floor Mounting Brackets (available from Berner) bolt to the unit end plate, and provide a rigid base to attach the unit to the floor. Two Brackets are required.

C. To vertically mount a IDC12/IDC14 Series unit using optional Floor Mounting Brackets, bolt brackets on the inside of the end plate with (4) M12 - 15 x 25 bolts as shown in ***Figure 7.***

D. Position the unit vertically in its intended position and anchor it to the floor with a minimum M10 fastener. ***See Figure 8.***

E. To improve the stability of the installation, it is required that the top of the unit be attached to the wall. A common approach is to attach a minimum length of M10 threaded rod through one of the open mounting holes in the top end plate and affix the other end of the rod to the wall. ***See Figure 9.***

F. **Electrical Connections** - Proceed to **Section VII.**

VI. TANDEM MOUNTING BRACKETS

For Vertical Mount Installation)

A. Optional Tandem Mounting Brackets (available from Berner) are used to join two air curtains together in a vertical application when the door height exceeds 5m.

B. Tandem Mounting Brackets connect the end plates of the units to be joined. Two brackets are required. Ideally, the units are joined together before the lower unit is bolted to the floor.

C. Using (4) M12 - 15 x 25 bolts, attach the Tandem Mounting Brackets to the inside of one of the unit's end plates as shown in ***Figure 10.***

D. Slide the end plate of the next unit over the brackets installed in Step C and attach using (4) additional M12 bolts as shown in ***Figure 11.***

E. Assemble Floor Mounting Brackets to lower unit and attach to floor per steps C and D of Section V.

F. **Electrical Connections -** Proceed to **Section VII.**

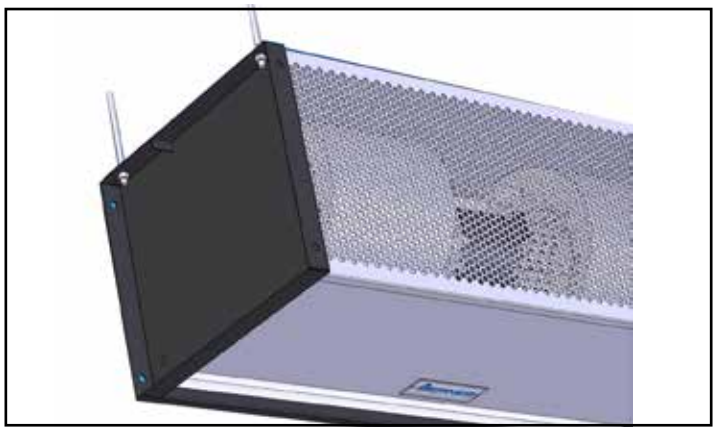


Figure 5

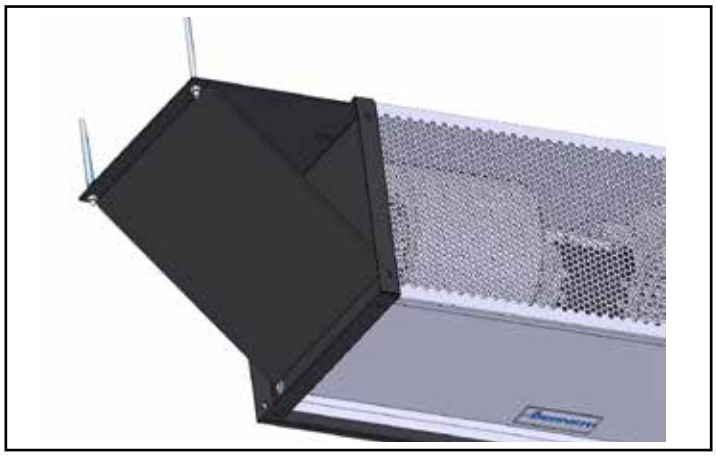


Figure 6 - With Extension Brackets

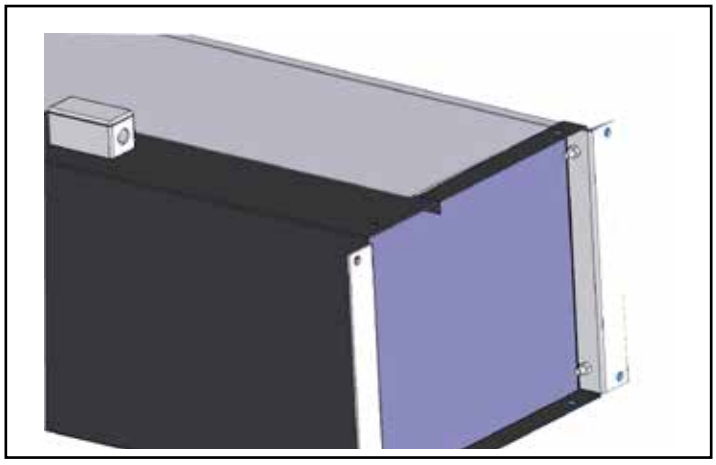


Figure 7 - Floor Mounting Brackets

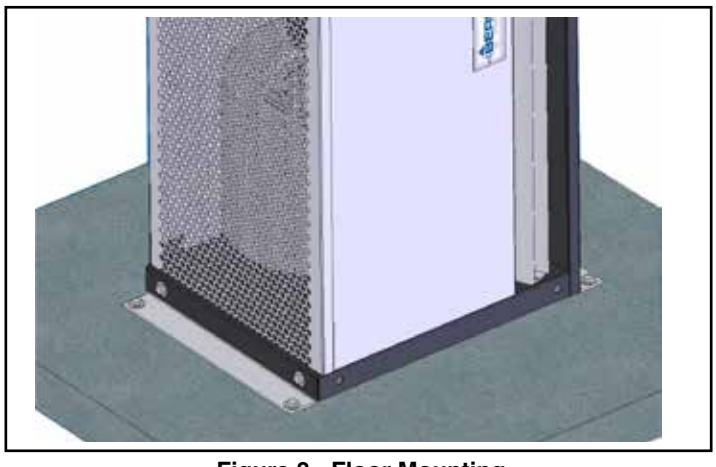


Figure 8 - Floor Mounting

VII. ELECTRICAL CONNECTIONS

All electrical wiring and connections **MUST** be performed by qualified personnel in accordance with the EU Directive 50110 and International Electrotechnical Standard IEC 60364 and local codes and regulations

A. Check the rating nameplate on the top of the unit for supply voltage and current requirements. A separate line voltage supply with a suitable branch circuit protection device should be run directly from the main electrical panel to the unit. A disconnect switch for each branch circuit is a required part of this installation.

B. All field wiring must be copper with a minimum insulation of 60° C within approved conduit. If any of the wire supplied with the unit must be replaced, it must be replaced with copper wiring with a minimum insulation of 90° C.

C. Remove the Junction Box cover.

D. Connect the power supply to the unit. Connect all supply and control circuit wires according to wiring diagram provided.

E. Re-install the Junction Box cover.

NOTE: For electric heated units provided with optional remote thermostat: Mount and wire the thermostat according to instructions and wiring diagram.

VIII. MECHANICAL CONNECTIONS

A. ELECTRIC HEATED MODELS

The heater circuit may be controlled by a remote thermostat or manually through the switch located on the discharge side of the unit. Overheating protection is provided by auto reset thermal cutouts built into the heater coil assembly **(see the wiring diagram)**.

B. STEAM OR HOT WATER HEATED MODELS

Piping should be done in accordance with local codes, regulations and standard practices. Connect the building system supply and return to the MNPT nipples on the heating coil. ***See Figure 12.***

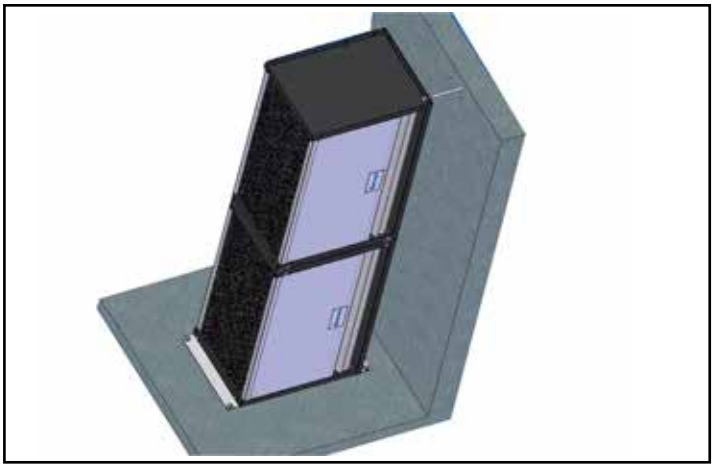


Figure 9 - Increased Stability for Vertical Mounting

Figure 10 - Tandem Mounting for Vertical Mounting

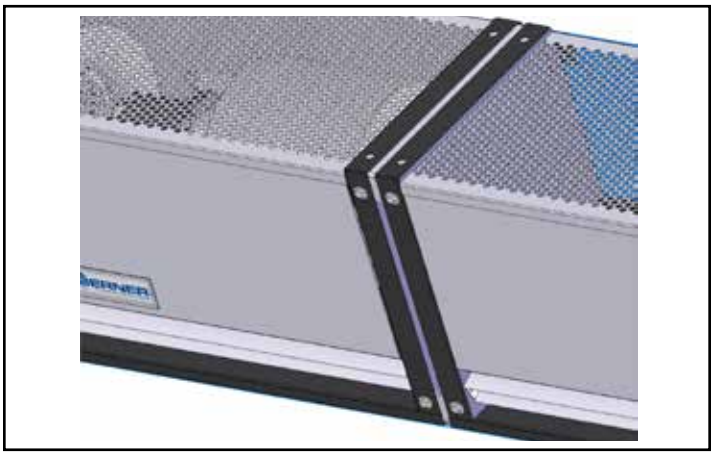


Figure 11 - Tandem Mounting

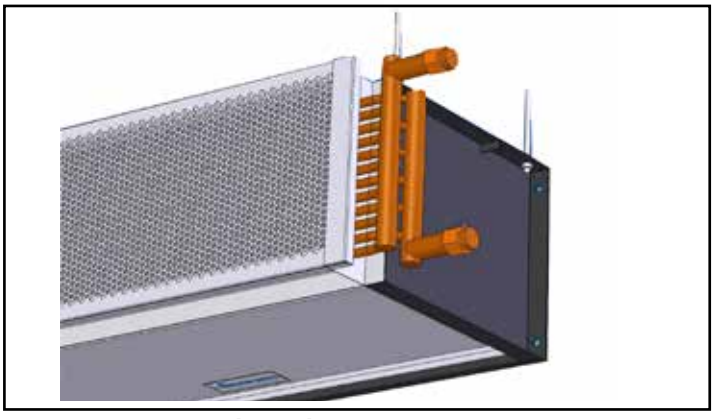


Figure 12 - Mechanical Connection - Steam/Hot Water

IX. OPERATING INSTRUCTIONS

This air curtain comes with a built-in **Intelliswitch™** digital controller with touchscreen display and the **Berner AIR® BASIC** smart control and app to control and schedule fan activation, fan speed selection, heat activation, and more. **The Berner AIR® BASIC** also includes features such as grouping, and adaptive settings. The air curtain must be properly installed before it can be used.

A. GENERAL OPERATION

Air curtain operation may be divided into four areas: control package, fan activation, fan speed selection, and heat activation. The air curtain must be properly installed before it is used.

1. Control packages control the unit's sequence of opera tion. Unit modes/control packages are built into the unit and may not be changed in the field. Refer to your wiring diagram for specifics about activation connections and sequence of operation.
   a. **Basic Control Package** – The unit is activated by a door switch. The door switch may be line voltage or low voltage (24V).
   b. **Deluxe Control Package** – The unit is activated by a door switch, but has a factory installed time delay allowing the unit to keep running for a period of time after the door closes.
   c. **Comfort Plus Control Package** – Available only on heated units, the unit is activated by the door switch or by the thermostat to provide supplemental heating. NOTE: Not available with 575V motors.
2. Unheated units will have the fans activated by a door switch or sensor. The unit may be single speed and require no fan speed selector (On/Off), or may have multiple fan speeds which require either a unit or remote mounted switch (Off, High, Med, Low).
3. Heated units will have fans activated by a door switch or sensor, but may also be activated by the thermostat in Comfort Plus Mode. The unit may be single speed and controlled by either a unit or remote mounted switch (Fan, Off, Heat), or may have multiple fan speeds which can be set by either a unit or remote mounted switch (Low, Med, High, Off, Low heat, Med Heat, High Heat).
4. Heat activation is controlled by either a unit or remote mounted thermostat, and a unit or remote mounted switch.

B. AIR STREAM ADJUSTMENT

1. With the air curtain operating and the door in its full open position, check to see that nothing is obstructing the airflow at the discharge nozzle vanes.
2. Find the air stream split location. Hold a handkerchief by its corners, approximately 305mm above the floor. Gently move the handkerchief back and forth in the doorway. Make sure the air is being directed to both the inside and the outside. ***See Figure13.*** The split location is indicated where the handkerchief is vertical with minimal or no fluttering.
3. The split location should be approximately 76mm outside the doorway. If necessary adjust the discharge nozzle vanes by de-energizing the unit and firmly push-ing/pulling on the vane tip until properly located.

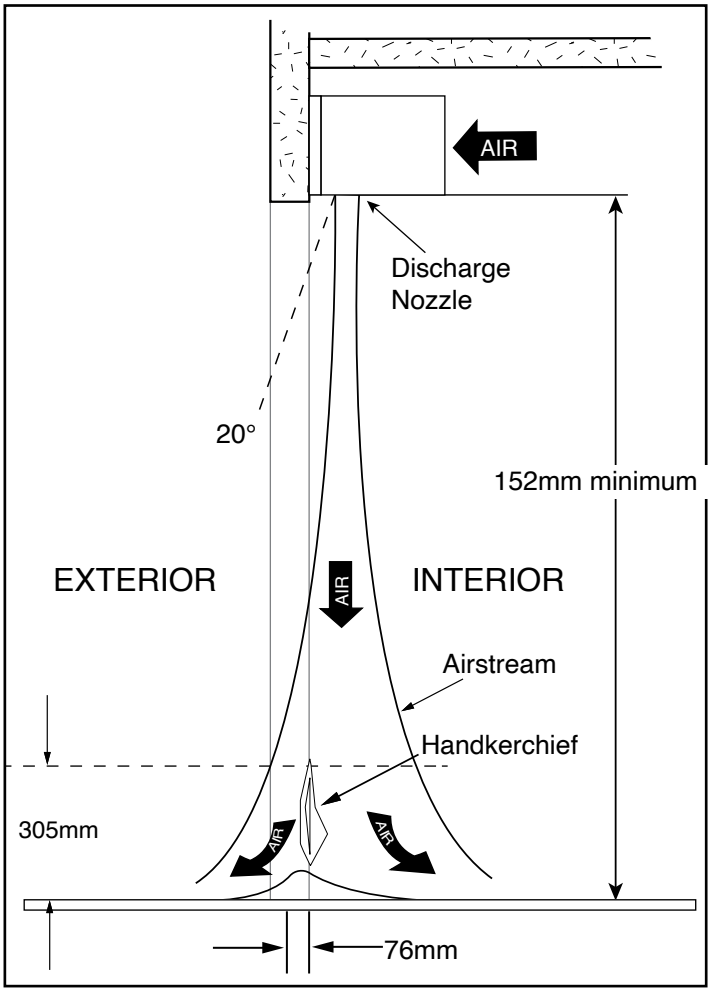


Figure 13 - Air Stream Adjustment

X. MAINTENANCE & CLEANING

CAUTION: ELECTRIC SHOCK HAZARD: Disconnect power when servicing unit. More than one disconnect may be required to de-energize unit.

Keep your air curtain operating at peak efficiency by cleaning the blower wheels, motor(s) and intake grille. Build up of dust on the blower wheels can cause vibration, noise and excessive wear on the motor bearings. The frequency of cleaning will depend on the environment where the unit is operating.

Dirty, dusty or greasy environments could require a cleaning schedule of once every two months. If the environment is not that dirty, the unit(s) should be scheduled for cleaning a minimum of once every (6) months.

To access the interior of the unit:

A. **Disconnect the power to the unit** and remove the intake grille by removing the screws on the top and bottom of the screen.
B. Remove the bottom access panel by removing the phillips head screws on the bottom of the unit.
C. Vacuum and scrape (if necessary) to remove the build up of dirt and debris. The motor(s) are permanently lubricated and require no additional lubrication. Reinstall the cover and intake grille.
D. Switch the power on after cleaning. **CAUTION: STAND CLEAR OF THE UNIT OR WEAR SAFETY GOGGLES AS LOOSE DEBRIS MAY BE PRESENT AND MAY EXIT THE NOZZLE**.

For units equipped with re-cleanable filters:

A. **Disconnect the power to the unit** and remove the intake grille by removing the screws on the top and bottom of the screen.
B. Remove all filters.
C. Wash with hot, soapy water and a garden hose or pressure washer.
D. Blow filters dry.
E. Clean the rest of the unit as outlined in steps B and C above.
F. Reinstall the filters, cover and intake grille.
G. Switch the power on after cleaning.

CAUTION: STAND CLEAR OF THE UNIT OR WEAR SAFETY GOGGLES AS LOOSE DEBRIS MAY BE PRESENT AND MAY EXIT THE NOZZLE.

XI. SERVICE

CAUTION: ELECTRIC SHOCK HAZARD Disconnect power whenever servicing unit. More than one disconnect may be required to de-energize unit.

Keep your air curtain operating at peak efficiency by cleaning the blower wheels, motor(s) and intake screen. Buildup of dust on the blower wheels can cause vibration, noise and excessive wear on the motor bearings. The frequency of cleaning will depend on the environment where the unit is operating.

Dirty, dusty or greasy environments could require a cleaning schedule of once every month. If the environment is not that dirty, the unit(s) should be scheduled for cleaning a minimum of once every six months. The air inlet filter typically requires cleaning every three to six months.

A. PERFORMING PREVENTIVE MAINTENANCE

1. **Disconnect the power to the unit.**
2. **Filter** - the aluminum washable filter is held in by the intake screen. Access the filter from the top of the unit by removing the Phillips head screws that attach the screen. Vacuum and/or wash with dish soap and water.
3. **Internal** - open the bottom access panel by removing the Phillips head screws on the bottom front of the unit. Vacuum and scrape (if necessary) to remove the build-up of dirt and debris. The motor(s) are permanently lubricated and require no additional lubrication.
4. Re-install the cover and intake screen.
5. Switch the power on after cleaning.

CAUTION: STAND CLEAR OF THE UNIT OR WEAR SAFETY GOGGLES AS LOOSE DEBRIS MAY BE PRESENT AND MAY EXIT THE NOZZLE UPON START UP!

CAUTION: ELECTRIC SHOCK HAZARD Disconnect power whenever servicing unit. More than one disconnect may be required to de-energize unit.

Any service performed on the IDC12/IDC14 Series *air curtain* ***MUST*** *be done by qualified personnel.* Berner air curtains require very little servicing. All parts are easily accessible for periodic inspection and maintenance. Units should be cleaned at least twice a year. Your particular application (the amount of dirt and dust in the air) and location of the unit(s) will determine how often your unit(s) will need to be cleaned and serviced. All motors have permanently lubricated, sealed, sleeve bearings and require no maintenance.

A. BLOWER MODULE REMOVAL

1. Disconnect and lockout power from the unit.
2. Remove the Bottom Access Panel. The Inlet Screen and Top Access Panel do not need to be removed, but taking them off can make the process easier.
3. Disconnect the wire harness from the motor(s). If the unit has electric heat, label and remove power wires and thermal cutout circuit wires from the heater assemblies. See Figure 14.
4. Removing the blower module requires removing (4) #12 self-drilling sheet metal screws. Using a 5/16" hex driver, first remove the (2) screws that go through the Transverse into the Motor Mount. See Figure 12.
5. After removing the (2) screws in this step, the approximately 20 kgs. module will be free to drop down out of the unit. While holding the module in place by pushing up onto the motor, remove the top, final (2) screws that go through the Blower Plate into the Main Channel. See Figure 12.
6. Gripping the motor and motor mount, slowly rotate the top of the module forward and then down and out of the unit. See Figure 13.
7. To remove the motor, first loosen the set screws in the fan impeller hubs using a 5/32" Allen wrench. The set screw can be accessed up through the fan discharge or through the small hole on the back of the blower housing.
8. Next, remove the blower housings by removing the (4) self-drilling screws from the back of the fan housing. The fan housing and fan impellers may now be slid off of the motor shaft.
9. To remove the Motor, remove the motor clips from the motors, and disconnect the motor ground wire from the Motor Mount.
10. Reinstall in reverse order.

B. REPLACEMENT OF ELECTRIC HEATER ELEMENT

1. The blower module does not need to be removed to clean or replace electric heater assemblies.
2. See Figure 14. There are (4) heater assemblies per Blower Module. All have (2) power connections. The "Half" heater assemblies also have (2) connections for the thermal cutout circuit. Label and remove all wires on the heaters to be replaced.
3. The (2) "Full" heaters are each held in place by (3) self-drilling screws that go through the heater mounting bracket into the fan housing. The (2) "Half" heaters are each held in place by (2) self-tapping screws that go through the heater frame into the mounting bracket that is attached to the fan housing. Remove all fasteners on the heaters to be replaced.
4. Reinstall new heaters in reverse order.

NOTE: New heaters temporarily emit the smell of burnt oil when they are energized for the first time. This is normal and will only occur for the first few minutes of operation.

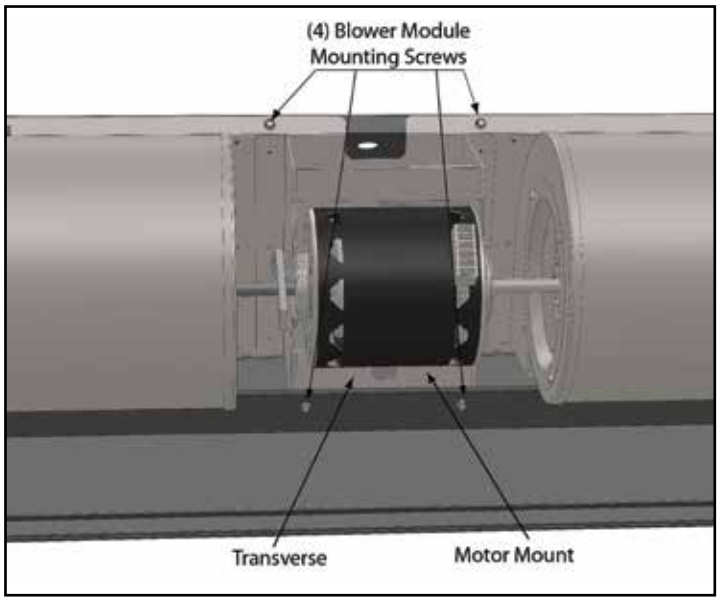


FIGURE 12 - Location of screws

FIGURE 13 - Removing the Blower Module

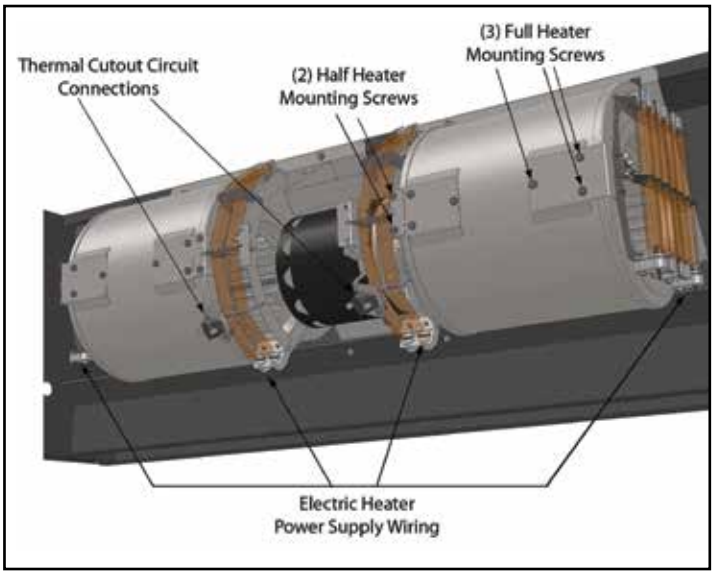
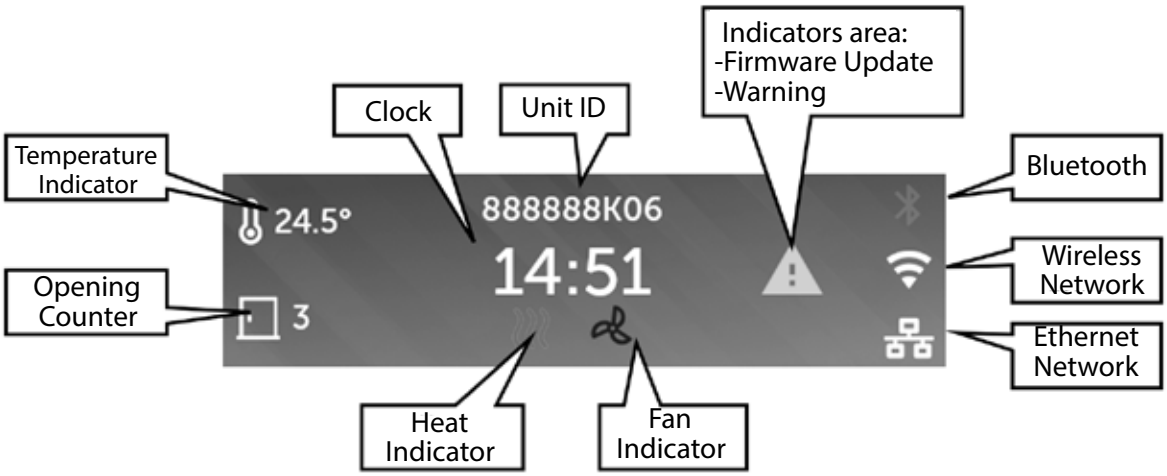


FIGURE 14 - Location of screws

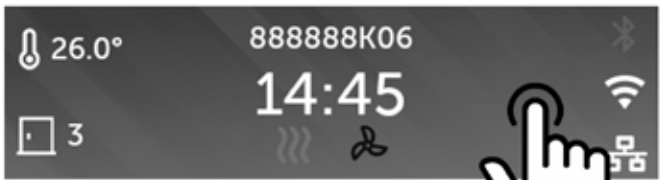
QUICK START INSTRUCTIONS

For your Berner Air Curtain with Intelliswitch™

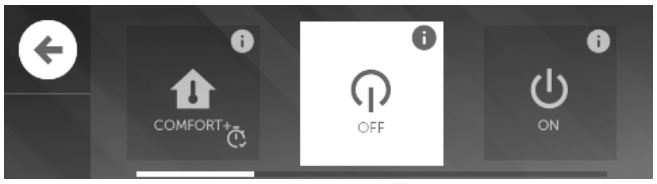


HOME SCREEN

To reach the "HOME" Screen,
touch the screen with your finger.



To access to the different panels, touch the related icon.
Each panel can control a specific parameter of the air curtain.



Button to return to the "HOME" screen.

Button to access the advanced parameters.

Button to access the temperature settings.
(This button is only available if your unit is heated.)

Button to access the fan speed settings.

Button to access the mode settings.

Button to access the Schedule.
(See Events Configuration)

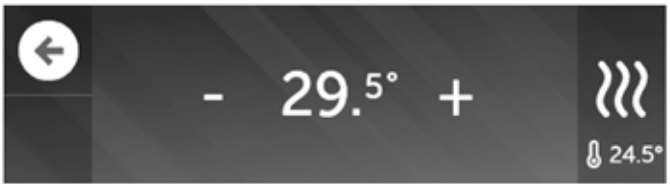
Button to return to the previous panel.

FAN SPEED SETTINGS

You can adjust your settings by press the "+" or the "-" icons.

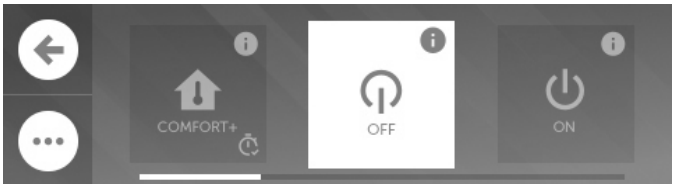
TEMPERATURE SETTING

You can adjust your settings by press the "+" or the "-" icons.



NOTE: The temperature value at the right corner indicates the ambient temperature around the air curtain sensor.

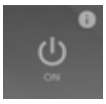
MODE SETTINGS



Different modes are available:

COMFORT +
The air curtain and heater turn on when the door opens or the room temperature drops below the set temperature. The air curtain turns off when the door is closed, the time delay has expired, and the room temperature is above the set temperature.

AUTO
The air curtain turns on when the door opens and turns off when both the door closes and the time delay expires.



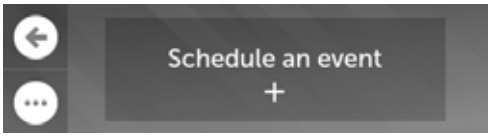
ON
The air curtain turns on when scheduled events are satisfied. If no events have been scheduled, the air curtain turns on.

OFF
The air curtain is off.

EVENTS CONFIGURATION

The *Intelliswitch™* is able to configure a schedule to automatically activate your air curtain. To do this, you need to activate the option, by executing the followings instructions:

1. On the "HOME" screen, push the button.
2. Select the button.
3. To reach the "SCHEDULE" option, by pushing the options on the top on each side of the screen.
4. To activate the schedule, just press the icon.
5. Return to the "HOME" screen by using the button.
6. On the "HOME" screen, press the tile.
7. For your first event, press the following tile.



8. On the schedule panel, select the desired parameters among the following's options:

NOTE: You can use the button to cancel your action.

9. Use the button to save your settings.
10. After the settings of your first event, it appears as shown:

NOTE: You can deactivate an event by using the slider at the bottom right of the desired event. Alternatively, if you want to suppress the event, push the button.

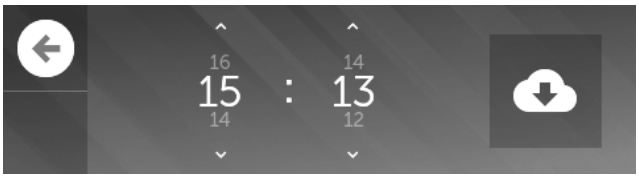
11. Press the tile to add another event.

NOTE: The schedule is fully operational with at least, 2 events.

CLOCK CONFIGURATION

If the Intelliswitch™ is connected to internet, the date and time will be automatically synchronized. Otherwise you can manually configure them, by following the instructions below:

1. On the "HOME" screen, push the button.
2. Select the "clock parameters" button.
3. Select the "Time" button.



4. Set the time by using the arrows on the screen then push the button to save.
5. To change the date, repeat the same operations but on steps 3, select the button .

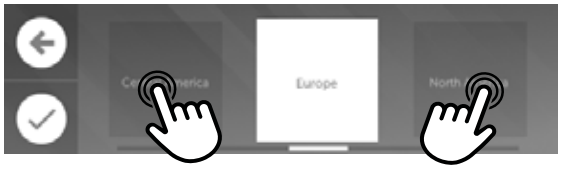
Note: Changing the date or time manually, will disable the automatic time synchronization if your unit is connected to internet.
Note: The time zone affects the automatic synchronization, be sure your time zone is correctly selected (See Time Zone Configuration)

TIME ZONE CONFIGURATION

To change your timezone, follow these instructions:

1. On the "Home" screen, push the button.
2. Select the button.
3. Select the "clock parameters" button.
4. Select the "TimeZone" button.
5. Select successively the options "Continent" → "Country" "City". →
6. Once you finish your selection, press the button to save the time zone.

Note: If the date and time is automatically synchronized with the internet, it's mandatory to set the timezone correctly. If not connected, the appropriate timezone setting will help following the daylight-saving time (DST) changes.



Press the adjacent tiles on other sides to navigate through the menu.

XII. TROUBLESHOOTING

SYMPTOMS	CAUSE	REMEDY
NO AIR	• Power supply line open (no power)	• Check power source, check service disconnect, check method of control in ON position
	• Fuse blown/circuit breaker tripped	• Replace fuse(s)/reset breaker
	• Motor overload tripped	• Internally protected motor - should reset automatically after cool-down, if not, replace motor.
	• Failed switch	• Replace switch
	MOTOR RUNNING/FANS ARE NOT ROTATING	
	• Broken or damaged flexible hub	• Replace fan sleeve/reengage coupling
	• Shaft rotating inside fan	• Tighten set screws/tighten fan on shaft
	ELECTRICAL CONTROLS NOT FUNCTIONING WHEN DOOR IS OPEN	
	• Selector switch is in off position	• Turn switch to “ON” position
	• Door limit switch not operating	• Repair or replace limit switch
MINIMUM AIR	• Air directional discharge vanes mis-adjusted	• Adjust vanes to proper position, see instructions
	• Inadequate intake clearance	• Move air curtain or remove obstruction Provide adequate space for air curtain
	• Blower motor operates below speed	• Improper voltage
	• Fan rubbing against housing	• Free fan from housing
	• Fan wheels clogged with dirt	• Clean and vacuum fan wheels
	• Fan in backwards	• Check fans for blade curve toward discharge
AIR IS NOT HITTING FLOOR	• Air stream too weak	• Adjust nozzle to proper position, adjust motor speed; see installation instructions
	• Air stream hits obstruction	• Remove obstruction or reposition air curtain (move out 10mm for every 25mm up from the door)
	• Negative pressure	• Relieve negative pressure by providing makeup air
UNEVEN AIR	• Shaft rotating inside fan	• Tighten set screws
	• One motor not operating	• Repair or replace motor
EXCESSIVE AIR MOVEMENT AT DOORWAY	• Nozzle not angled out far enough	• Adjust nozzle angle to outside
	• Unit too powerful	• Adjust motor speed
	• Air movement too cold	• Add auxiliary heat to overcome wind chill factor
	• Pushing air outside building	• Adjust discharge angle back into building, adjust motor speed
	SEE AIR IS NOT HITTING FLOOR SYMPTOMS	
ELECTRICALLY HEATED MODELS		
NO HEAT	• Switch turned to “ON” position	• Replace switch or check wiring
	• Thermostat not set properly	• Change thermostat setting
	• Coils burned out due to lack of air	• Correct airflow problem; replace coils
	• Automatic reset thermal cutout failed in open position	• Replace automatic thermal cutout
	• Manual reset thermal cutout tripped (if supplied)	• Reset manual thermal cutout
MINIMAL HEAT	• Thermostat in wrong location - thermostat too close to discharge	• Move thermostat away from air stream
	• Improper voltage	• Supply proper voltage
	• Thermostat not set properly	• Change temperature setting
	• Low entering air temperature	• Based on unit temperature rise, reduce speed
EXCESSIVE HEAT	• Incorrect speed range	• Check factory menu speed range matches diagram
	• Thermostat in wrong location	• Move the thermostat closer to air stream
	• Thermostat not set properly	• Change temperature setting
	• Insufficient air over coil	• Remove restriction on intake
	• Improper voltage	• Supply proper voltage
STEAM / HOT WATER HEATED UNITS		
EXCESSIVE HEAT	• Too high hot water pressure	• Reduce hot water flow
	• Inadequate air flow, fins plugged up, dirty coils	• Clean intake and coils
MINIMAL HEAT	• Water temperature too low	• Increase water flow
	• Intake air below design temperature	• Increase water flow

XIII. APPENDIX

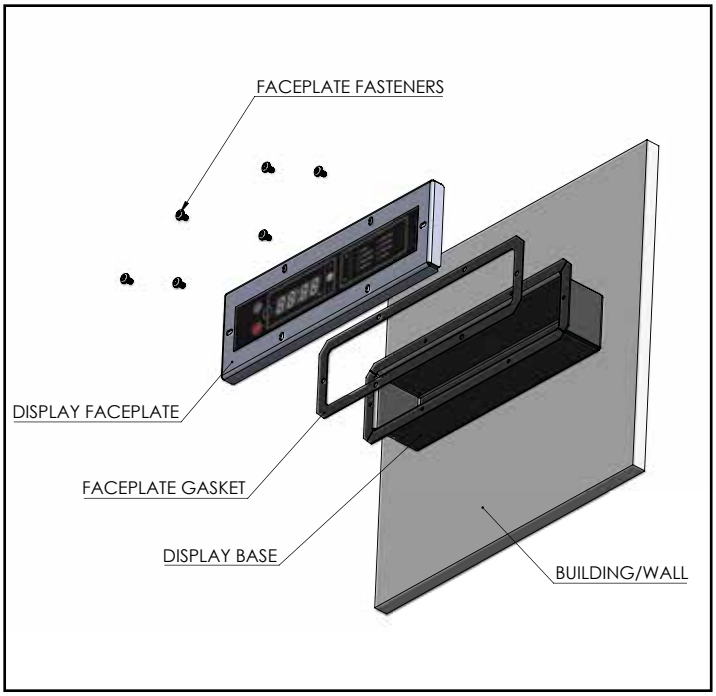
A. Interconnect Connection (a.k.a. daisy chain) via physical connection

Used for programming multiple air curtains from a single Intelliswitch™ digital controller.

NOTE: The air curtain must have been ordered from the factory with the Interconnect physical data link option.

A wired ethernet connection (provided by others) must be made between all air curtains to be linked. Once air curtains are linked, all menu settings made through any air curtain Intelliswitch display or remote Intelliswitch display will transfer to all other linked air curtains. Parameter changes made on any linked air curtain will update all other Intelliswitch boards "live" upon menu selections.

NOTE: Low voltage ethernet cable (provided by others), maximum length, 90m.



B. Remote Mounted Touchscreen Display or Tablet

1. Touchscreen Display: If the unit was ordered with a remote mounted Intelliswitch touchscreen display, the air curtain will come pre-wired with a USB-C connection in the wiring compartment and 6m of USB-C Cable to link and power the device.

2. Tablet: If the unit was ordered with a remote mounted tablet, the air curtain will come pre-wired with a power-over-ethernet (PoE) connection in the wiring compartment to power the devices. Connect a CAT 5 ethernet cable for low voltage power with a maximum length of 90m (provided by others).

C. Building Management System (BMS) Integration (BACnet or Modbus)

This unit is equipped with the Berner AIR™ BMS smart control & app, and is BACnet and Modbus compatible.

1. To connect wirelessly to the Building Management System using **BACnet-IP, BACnet-MS/TP, Modbus-TCP, or Modbus-RTU** client, download the Berner AIR App, pair the air curtain to the app and then in the settings menu select the BACnet or Modbus option. Follow the prompts to configure.

2. To connect via wire: this air curtain includes an ethernet connection port in the wiring compartment to connect to the Building Management System (BMS) via BACnet-IP or Modbus protocols. Connect using a CAT 5 ethernet cable (provided by others).

   Once wired, either:
   a. Download the Berner AIR™ App, pair the air curtain to the app and then in the settings menu select the BACnet or Modbus option. Follow the prompts to configure. Once configured to the BMS, the app can be disconnected.
   b. Tap the Intelliswitch touchscreen on the air curtain, and then tap on ··· to access the advanced parameters.

Declaration of Conformity

UK CA CE

Manufacturer/Importer:

Name: Berner International
Address: 111 Progress Ave. New Castle, PA 16101, USA
Phone/Fax no: 724-658-3551

Declares that the product:

EUT Description: IDC12-5192AV-F

Model Number: IDC12

Conforms to the following technical standard:

EMC	RED	LVD	RoHS II
EN 55014-2:1997+A2:2008	EN 60204-1:2006	EN 50566:2017	EN 63000:2016
EN 61000-6-1:2007	EN 301489-1 V 2.2.3	EN 50663:2017	
EN 61000-6-4:2007+AI:2011	EN 301489-17 V 3.2.4	EN 62479:2010	
	EN 300 328 V 2.2.2		
	EN 301893 V 2.1.1 (RSE Testing Only)		

*Exempt from ErP Directive 2009/125/EC

Identification of Product:

This device complies with European Union EMC Directive 2014/30/EU, LVD Directive 2014/35/EU, RED Directive 2014/53/EU, RoHS II Directive 2011/65/EU

The following test reports are subject to this declaration:

Test Report Number:	Issue Date:
2402-045EB	10/17/2024
5179358FEB-01	7/15/2024
5207380EMC01	8/19/2024
5207380EMC02	8/19/2024
52O738OEMCO3	8/19/2024
5207380EMC04	8/19/2024
5207380EMC05	8/19/2024

KEYSTONE COMPLIANCE

131 Columbus Inner Belt • New Castle • PA 16101
Ph.: 724-657-9940 • Fax: 724-657-9920
www.keystonecompliance.com

The manufacturer is responsible for this declaration:

Name/Title: Sarah Yack, International Product Manager

Date: 10/17/2024

Signature:

Declaration of Conformity

UK CA CE

Manufacturer/Importer:

Name: Berner International
Address: 111 Progress Ave. New Castle, PA 16101, USA
Phone/Fax no: 724-658-3551

Declares that the product:

EUT Description: IDC14-5192AV-F

Model Number: IDC14

Conforms to the following technical standard:

EMC	RED	LVD	RoHS II
EN 55014-2:1997+A2:2008	EN 60204-1:2006	EN 50566:2017	EN 63000:2016
EN 61000-6-1:2007	EN 301 489-1 V 2.2.3	EN 50663:2017	
EN 61000-6-4:2007+AI:2011	EN 301 489-17 V 3.2.4	EN 62479:2010	
	EN 300 328 V 2.2.2		
	EN 301 893 V 2.1.1 (RSE Testing Only)		

*Exempt from ErP Directive 2009/125/EC

Identification of Product:

This device complies with European Union EMC Directive 2014/30/EU, LVD Directive 2014/35/EU, RED Directive 2014/53/EU, RoHS II Directive 2011/65/EU

The following test reports are subject to this declaration:

Test Report Number:	Issue Date:
2402-045EB	10/17/2024
5179358FEB-04	7/15/2024
5207380EMC01	8/19/2024
5207380EMC02	8/19/2024
5207380EMC03	8/19/2024
5207380EMC04	8/19/2024
5207380EMC05	8/19/2024

KEYSTONE compliance

131 Columbus Inner Belt • New Castle • PA 16101
Ph.: 724-657-9940 • Fax: 724-657-9920
VAVW.keystonecompliance.com

The manufacturer is responsible for this declaration:

Name/Title: Sarah Yack, International Product Manager

Date: 10/17/2024

Signature:

XIII. WARRANTY

Berner International ("The Company") warrants all new equipment to be free of defects in workmanship and material for a period of five years (5 years) from the original date of shipment, provided the equipment has been properly cared for, installed and operated in accordance with the limits specified on the nameplate and The Company's instructions. All warranted parts will be replaced at no charge for a period of six months from date the parts were shipped.

The Company will correct by repair or replacement, at its option and expense, any proven defects in said apparatus, subject to the above conditions, provided that immediate written notice of such defects is given to The Company. The warranty does not include any labor incurred for the removal or installation of defective part(s). The Company reserves the right to inspect, or have inspected by a qualified representative, any apparatus at the place of installation before authorizing repair or replacement. Repair or replacement will be made F.O.B. factory with any applicable transportation charges to be borne by the customer. Merchandise not of The Company's manufacture supplied in piece, or in component assemblies, is not covered by the above warranty, but The Company will give the customer the benefit of any adjustment as made with the Manufacturer.

This warranty is void if the apparatus has been tampered with in any way or shows evidence of misuse.

The Company will not assume any expense or liability for repairs made outside its factory without proper written consent from its service manager, nor for any transportation charges on apparatus returned to the factory without written authorization by The Company.

Nothing in the above warranty provisions, however, shall impose any liability or obligation of any type, nature or description upon Berner International if Berner has not received payment in full for the apparatus in question.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HERE OF INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF DAMAGES

Notwithstanding anything to the contrary above, customer's exclusive remedy for any and all losses or damages resulting from the sale of The Company's equipment under this agreement, including but not limited to, any allegations of breach of warranty, breach of contract, negligence or strict liability, shall be limited, at The Company's option, to either the return of the purchase price or the replacement of the particular equipment for which a claim is made and proved. In no event shall The Company be liable for any special, consequential, incidental or indirect losses or damages from the sale of The Company's equipment under this agreement.

SERIAL NUMBER	DATE PURCHASED

BERNER®
AIR CURTAINS

Saving energy and creating healthy, comfortable environments

BERNER INTERNATIONAL
New Castle, Pennsylvania

724-658-3551 • 1-800-245-4455 • www.Berner.com

Berner reserves the right to alter specifications without prior notice.

MADE IN U.S.A.