REZNOR

ACRD

Revolving Door Air Curtains

NORTEK™
GLOBAL HVAC

ACRD Series

Revolving Door Air Curtains

ACRD is an ideal air curtain solution for revolving doors. The air curtain is installed above the door and the supply duct is adapted to the diameter of the door, which gives a neat and discrete solution.

A revolving door prevents continuous drafts but still lets in a certain amount of cold air at every rotation. The air curtain prevents the cold air from penetrating and gives additional heating comfort when the door is not in use.

The ACRD consists of a fan unit and an air delivery duct.

Model Range

Available with heating capacities ranging from 8kW to 30kW for door diameters of between 1000mm and 6000mm.

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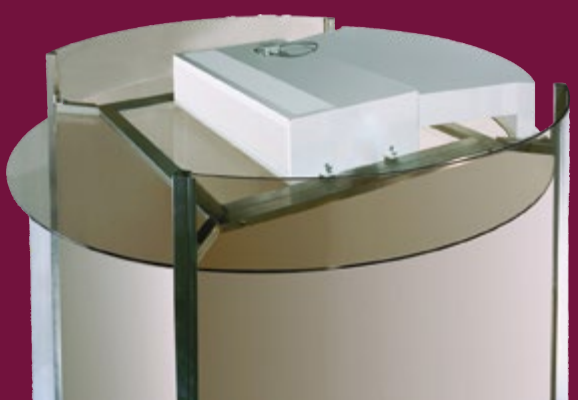
Features & Benefits

- Prevents heated or conditioned air escaping through open doors
- The air curtain is installed horizontally on the roof of the revolving door on steel plates (100 x 200 mm) that distribute the weight
- The front of the duct is covered by a duct panel that is available in polished high gloss, polished or brushed stainless steel. It is also available in powder coated steel, in any RAL/NCS colour. Supply duct and air curtain in powder coated steel, white, RAL 9016. Aluminium louvres



Electrical Heat ACRD								
Model	Output Kw	Airflow *1	Δt*3 °C	Sound Level *2 (dB (A))	Voltage Amperage (control)	Voltage Amperage (heat)	Length mm	Weight *6 mm
ACRD1000SE8	2.7/5.4/8.1	1050/2300	23/11	60	230V~/2.3	400V3~/11.7	1000	80
ACRD1000HE11	3.9/7.8/11.7	1300/2900	27/12	61	230V~/3.6	400V3~/16.9	1000	100
ACRD1500SE18	6.0/12.0/18.0	1800/3800	30/14	62	230V~/4.8	400V3~/26.0	1500	150
ACRD2000SE23	7.8/15.6/23.4	2700/5600	26/12	63	230V~/7.0	400V3~/33.8	2000	200
ACRD2000HE30	9.9/18.8/29.7	3100/6500	29/14	64	230V~/8.2	400V3~/42.9	2500	220

Water Heat ACRD											
Model	Output *4 Kw	Output *5 Kw	Airflow *1	Δt*3,4 °C	Δt*3,5 °C	Water Volume	Sound Level (dB (A))	Voltage	Amperage	Length mm	Weight mm
ACRD1000SW18	10.3	17.9	1050/2300	18/13	31/23	2.2	60	230V~	2.3	1000	80
ACRD1000HW20	11.7	20.4	1300/2900	17/12	29/21	2.2	61	230V~	3.6	1000	100
ACRD1500SW30	17.3	29.8	1800/3800	18/13	31/23	3.4	62	230V~	4.8	1500	150
ACRD2000SW43	25.5	43.3	2700/5600	18/13	30/23	4.5	63	230V~	7.0	2000	200
ACRD2000HW54	32.0	54.1	3100/6500	19/15	32/25	5.7	64	230V~	8.2	2500	220

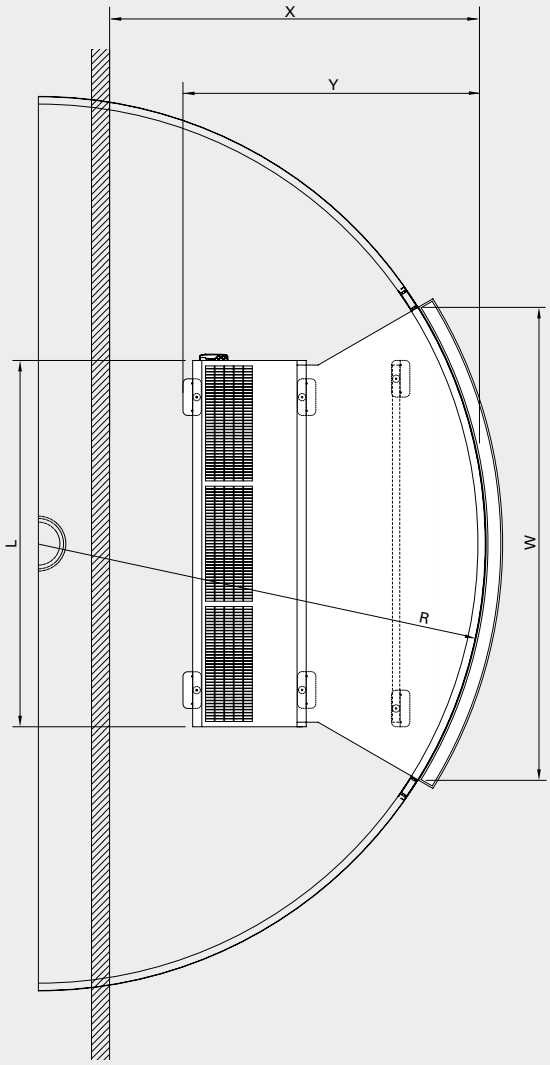
Ambient Heat ACRD						
Model	Airflow *1	Δt*3 °C	Sound Level *2 (dB (A))	Voltage Amperage (control)	Length mm	Weight *6 mm
ACRD1000SE8	1050/2300	23/11	60	230V~/2.3	1000	80
ACRD1000HE11	1300/2900	27/12	61	230V~/3.6	1000	100
ACRD1500SE18	1800/3800	30/14	62	230V~/4.8	1500	150
ACRD2000SE23	2700/5600	26/12	63	230V~/7.0	2000	200
ACRD2000HE30	3100/6500	29/14	64	230V~/8.2	2500	220

*1) Lowest/highest airflow of totally 5 fan steps.
*2) Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².
*3) Δt = temperature rise of passing air at maximum heat output and lowest/highest airflow.
*4) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.
*5) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.
*6) Approximate weight for air curtain and duct.
Protection class: IP20.
CE compliant.

ACRD

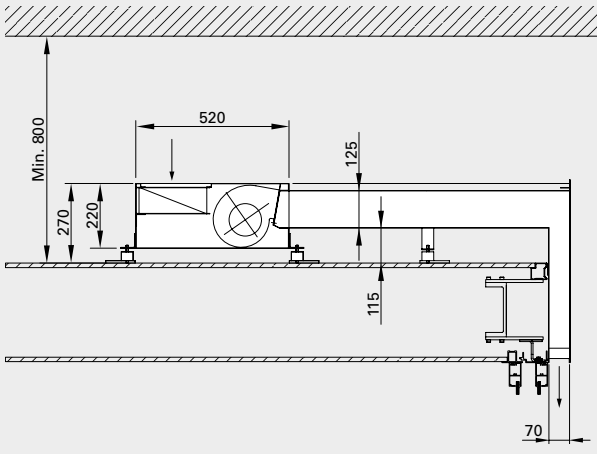
Dimensions

Top view



	L [mm]
ACRD1000	1000
ACRD1500	1500
ACRD2000	2500

Side view



Ordering

Select air curtain

To select which air curtain to order, multiply the width with the height of the opening of the revolving door, to get the surface of the opening. To create comfort in the entrance area between 3,5 and 5 kW heating per square metre of opening, depending on the lowest outdoor temperature, is needed.

Product key

Type - R - W - X - Z - Material / colour

Example: ACRD - 2500 - 2900 - 2350 - 500 - P

Mounting

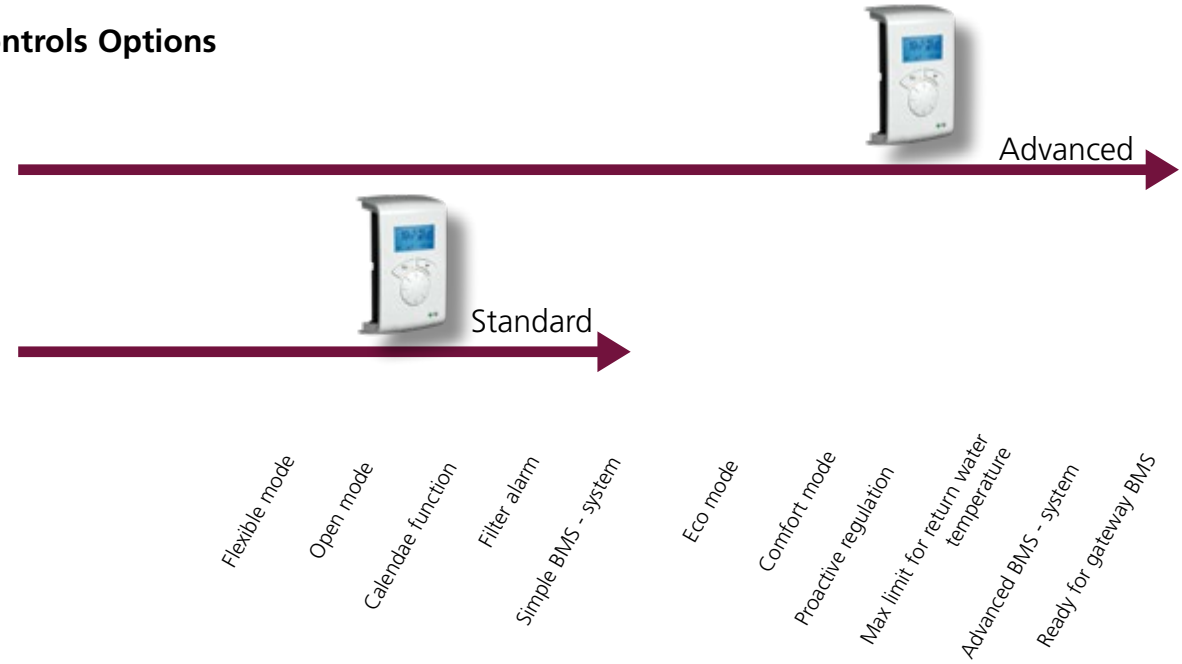
The air curtain is installed horizontally on the roof of the revolving door on steel plates (100 x 200 mm) that distribute the weight.

- Make sure that the air curtain fits on top of the revolving door.
- The distance between the roof of the revolving door and the inside ceiling must not be less than 800 mm, for installation and service to be possible.
- The distance X between the outer radius of the revolving door and the outer wall would in normal circumstances be at least 1400 mm.
- Normally the length 'L' of the air curtain should be less than the opening width 'W' of the revolving door.
- It is a requirement that the length 'L' of the air curtain is larger than the opening width 'W'. Or if there is limited space a special shaped duct can be supplied.
- Ensure that the ceiling of the revolving door can carry the weight of the air curtain and duct. The total weight of the installation is stated in the Technical specifications. If the roof of the revolving door cannot take the weight, ACRD can be mounted on a beam construction. Mounting brackets for beam included.

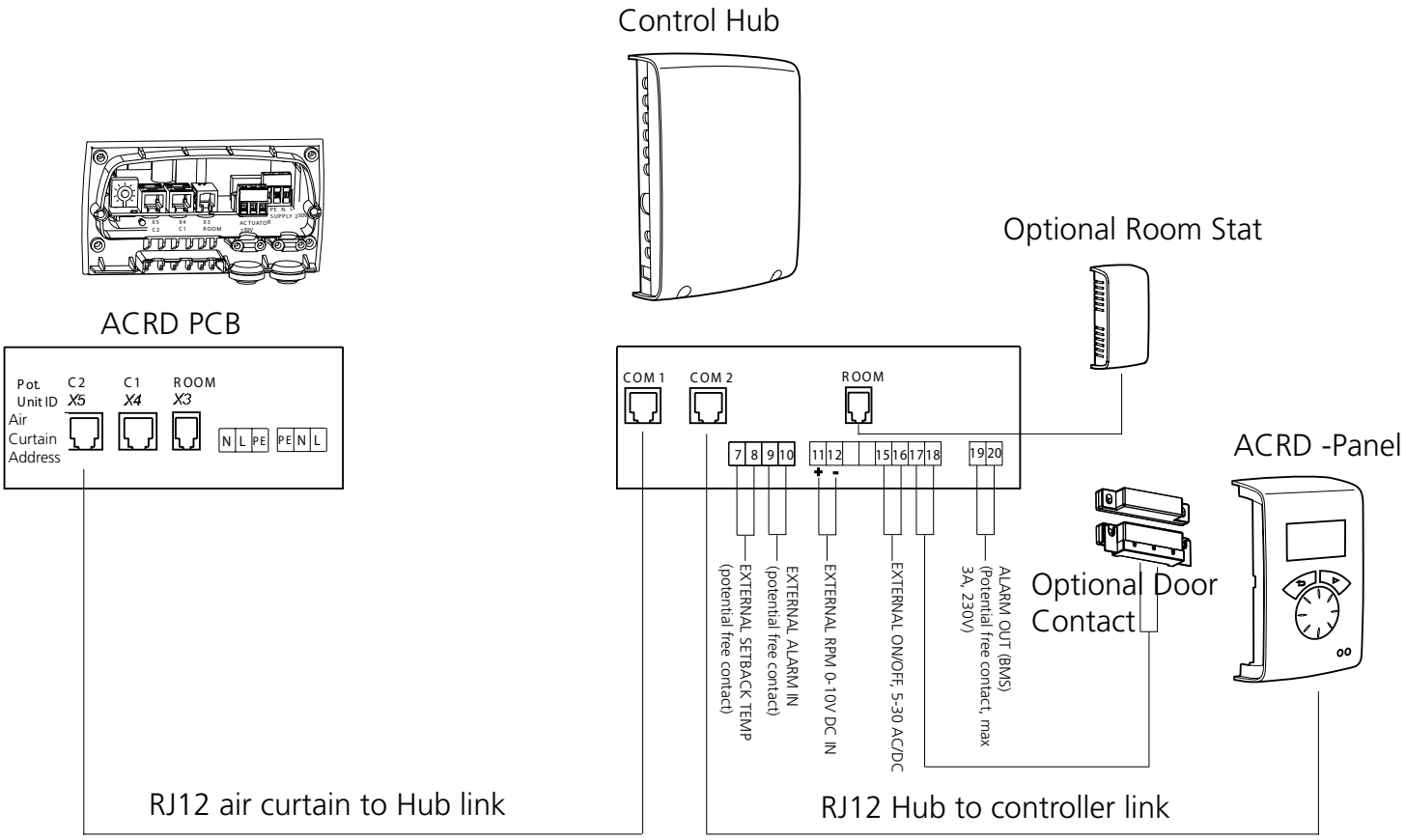
Contact us before ordering for more information about the product and special adaptations.

Type	See Technical specifications.
R	The outer radius of the revolving door above the entrance height.
W	The opening width of the revolving door
X	The largest distance between the outer radius R of the revolving door and the wall to the outside
Z	The height between the inner ceiling of the revolving door (the position of the outlet of the duct) up to the outer roof of the revolving door (where the air curtain is mounted).
Material/ colour	P = Polished stainless steel B = Brushed stainless steel MP = Mirror polished stainless steel State RAL-kod = Powder coating RAL State NCS-kod = Powder coating NCS Only valid for duct cover plate. Air curtain and duct are made of powder lacquered steel panels, white, RAL9016.

Controls Options



Interconnecting wiring diagram



Document reference number: GB/AG/069/0118

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