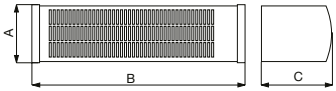
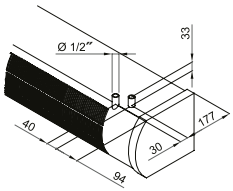
COR N

max. height installation



size	A	B	C
1000	210	1080	250
1500	210	1686	250
2000	210	2186	250



detail of the water connection at the screens COR-NW

Technical parameters

Cabinet
is made of powder-coated steel sheet in white (RAL 9003), the connecting elements are also electroplated.

Fans
Special silent tangential fans are used in the door screens.

Engine
is asynchronous with short armature. Protection IP20.

Heater
Electric, water or without heater.

Electrical connection
is made to the internal terminal block in the door screen cabinet. Models with electric heater are equipped with thermal protection as standard.

Aperture control without heater
is carried out with the wall controller CR-F, which is included in the curtain delivery. The controller can be used to switch the speed in two stages. In the case of multiple apertures side by side, up to 5 identical apertures can be connected to one controller.

Aperture control with el. heater
is carried out with the wall controller CR-6/9 N, which is included with the aperture (for COR-3.5-1000 N with the CR-3.5 N controller). Switch the speed in three stages and the power heater in two stages (full power and ½ power, for COR-3,5 only full power). Aperture also allow the connection of an external thermostat (not supplied) for automatic operation. When arranging multiple orifices side by side, one can be controller, up to 5 identical apertures can be connected.

Aperture control with water heater
is carried out with the wall-mounted controller CR-W, which is included in the aperture delivery. Up to 5 identical apertures can be connected to one controller when multiple apertures are arranged side by side.

Mounting
The screens can be mounted directly on the wall or suspended from the ceiling with M8 threaded rods. The minimum height should be 1.8 m and the maximum 3 m above the floor. The minimum distance from the ceiling or walls must be 100 mm.

Noise
All models are characterised by a low noise level due to the balanced impeller.

Variants
- **COR-F-1000 N** – without heater
- **COR-F-1500 N** – without heater
- **COR-F-2000 N** – without heater
- **COR-3,5-1000 N** – with el. heater 3,5 kW
- **COR-6-1000 N** – with el. heater 6 kW
- **COR-9-1000 N** – with el. heater 9 kW
- **COR-9-1500 N** – with el. heater 9 kW
- **COR-12-1500 N** – with el. heater 12 kW
- **COR-18-2000 N** – with el. heater 18 kW
- **COR-1000 NW 9** – with water heating 9 kW
- **COR-1500 NW 15** – with water heating 15 kW
- **COR-2000 NW 24** – with water heating 24 kW

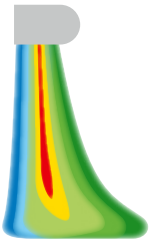
Accessories
- **RTR 6721** room thermostat (K 8.2)
- **CR-AUTOMATIC** air curtain controller COR N/FT with electric heater, including door contact (K 4)
- **AV 6** two-way valve (K 4)
- **Tri-CTR** three-way valve (K 4)
- **TR-K2 2050** thermostatic head (K 4)

Information
Air door damper in a compact design with easy installation suitable for small commercial premises. Multiple screens can be arranged side by side if required.

Type	voltage [V]	input power [kW]	air flow [m³/h] revolutions			max. temperature difference** [K]			acoustic pressure* [dB(A)]	max. current [A]	heater	weight [kg]
			high	medium	low	high speed	medium revolutions	low speed				
COR-F-1000 N	230	0.1	1400	–	1100	–	–	–	48	0.5	no	15
COR-F-1500 N	230	0.2	2700	–	2100	–	–	–	50	0.8	no	20
COR-F-2000 N	230	0.142	2700	–	2200	–	–	–	49	0.63	no	26
COR-3.5-1000 N	230	3.6	1400	1100	750	7	9	14	48	15.5	electric	16
COR-6-1000 N	400	6.1	1400	1100	750	13	16	23	48	8.6	electric	16
COR-9-1000 N	400	9.1	1300	1100	1000	20	24	26	48	13	electric	16
COR-9-1500 N	400	9.2	2500	2000	1200	11	13	22	50	13	electric	21
COR-12-1500 N	400	12.2	2500	1900	1100	14	18	32	49	17.3	electric	22
COR-18-2000 N	400	18.2	2600	2300	2000	20	23	26	49	26	electric	30
COR-1000 NW 9	230	0.115	1600	1000	800	18	21	24	48	0.5	water	19
COR-1500 NW 15	230	0.18	2800	1900	1400	19	22	24	50	0.8	water	25
COR-2000 NW 24	230	0.16	3300	2200	1700	20	23	25	48	0.7	water	33

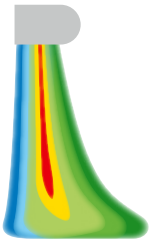
* sound pressure measured in the free acoustic field at a distance of 3 m, ** temperature gradient 80/60 °C at an inlet air temperature of 15 °C

Additional illustrations



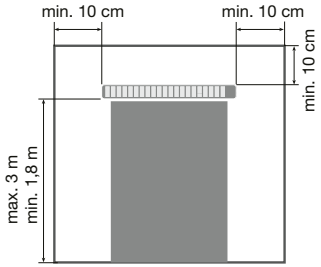
0.05 m	8 m/s
1 m	4.7 m/s
2 m	3.3 m/s
3 m	2.6 m/s

COR N
distance from aperture / air speed



0.05 m	9 m/s
1 m	5 m/s
2 m	3.8 m/s
3 m	3.1 m/s

COR NW
distance from aperture / air speed



mounting height and distance from walls

Remote control

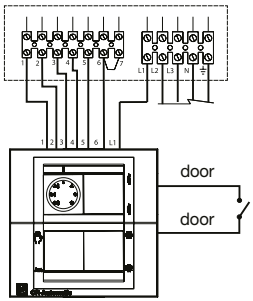
remote control
for apertures
without heater
CR-F
(included)

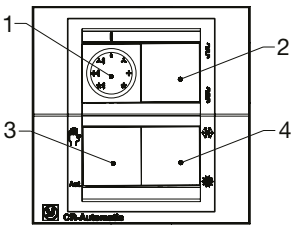
remote control
for apertures
with electric
heater
CR-6/9 N
(COR-3.5-1000 N
aperture uses
CR-3.5 N control)
(included)

remote control
for apertures
with water
heater
CR-W
(included)

CR-AUTOMATIC
The CR-AUtomatic air curtain controller controls the fan speed and heater output depending on the opening of the automatic door.

- manual/automatic mode
- winter/summer operation
- including door contact
- designed for COR-N/FT curtains with electric heater
- adjustable timing in automatic mode
- dimensions 180×180×100 mm





Functions of the controller switches

1 – manual fan speed switch
The fan can be run alone or with the heater. The speed can be selected in 3 stages.

2 – heater power
Half or full power of the heater.

3 – manual/automatic operation
In manual operation, the curtain is controlled by switches 1 and 2. In automatic mode, the curtain runs at low fan speed with medium heating power (door closed). If the door contact detects the door opening, the fan speed will increase to maximum and the electric heater will switch to full power. This function is controlled by an adjustable time from 30 s (factory setting) to 10 min. When the timeout period expires, the damper switches back to the original mode.

4 – winter/summer operation
For automatic operation only – in winter operation the fan and heater run, in summer operation only the fan runs.

Characteristics

Parameters of water heaters

COR-1000 NW 9	speed	air flow [m³/h]	inlet air temperature +15 °C				inlet air temperature +20 °C			
			pressure drop on the water side [kPa]	water flow [l/s]	heat output [kW]	outlet air temperature [°C]	pressure drop on the water side [kPa]	water flow [l/s]	heat output [kW]	output air temperature [°C]
water temperature gradient 90/70 °C	high	1600	13.02	0.14	12.0	37	11.16	0.13	11.0	40
	medium	1100	8.69	0.11	9.5	40	7.44	0.10	8.7	43
	low	800	6.08	0.09	7.8	43	5.21	0.08	7.1	46
water temperature gradient 80/60 °C	high	1600	9.73	0.12	10.0	33	8.06	0.11	9.0	37
	medium	1100	6.48	0.09	7.9	36	5.38	0.09	7.1	39
	low	800	4.54	0.08	6.5	39	3.77	0.07	5.8	42
water temperature gradient 70/50 °C	high	1600	6.71	0.12	9.7	29	5.29	0.08	6.9	33
	medium	1100	4.50	0.08	6.3	32	0.48	0.07	5.5	35
	low	800	7.50	0.06	5.2	34	6.27	0.05	4.5	37
water temperature gradient 60/40 °C	high	1600	4.09	0.07	5.9	26	7.15	0.06	4.9	29
	medium	1100	6.81	0.06	4.7	27	5.20	0.05	3.9	27
	low	800	5.12	0.05	3.8	29	3.85	0.04	3.2	32

COR-1500 NW 15	speed	air flow [m³/h]	inlet air temperature +15 °C				inlet air temperature +20 °C			
			pressure drop on the water side [kPa]	water flow [l/s]	heat output [kW]	outlet air temperature [°C]	pressure drop on the water side [kPa]	water flow [l/s]	heat output [kW]	output air temperature [°C]
water temperature gradient 90/70 °C	high	2800	56.47	0.26	21.4	37	48.52	0.23	19.6	41
	medium	1900	36.96	0.20	16.8	41	31.82	0.18	15.4	44
	low	1400	26.18	0.17	14.0	44	22.48	0.15	12.7	47
water temperature gradient 80/60 °C	high	2800	42.35	0.21	17.9	34	35.33	0.19	16.2	37
	medium	1900	28.85	0.17	14.1	37	23.25	0.15	12.7	40
	low	1400	19.77	0.14	12.0	39	16.51	0.13	10.5	42
water temperature gradient 70/50 °C	high	2800	30.01	0.17	14.4	30	23.84	0.15	12.7	33
	medium	1900	19.69	0.14	11.4	32	15.71	0.12	10.0	36
	low	1400	14.00	0.11	9.0	35	11.14	0.10	8.2	37
water temperature gradient 60/40 °C	high	2800	18.88	0.13	10.9	26	13.82	0.11	9.1	30
	medium	1900	12.52	0.10	8.6	28	9.17	0.09	7.2	31
	low	1400	8.93	0.08	7.0	30	6.55	0.07	6.0	33

COR-2000 NW 24	speed	air flow [m³/h]	inlet air temperature +15 °C				inlet air temperature +20 °C			
			pressure drop on the water side [kPa]	water flow [l/s]	heat output [kW]	outlet air temperature [°C]	pressure drop on the water side [kPa]	water flow [l/s]	heat output [kW]	output air temperature [°C]
water temperature gradient 90/70 °C	high	3300	34.46	0.32	26.4	38	29.65	0.29	24.3	42
	medium	2200	22.10	0.24	20.5	42	18.98	0.22	18.8	45
	low	1700	16.47	0.21	17.4	45	14.15	0.19	15.9	48
water temperature gradient 80/60 °C	high	3300	25.75	0.26	22.1	35	21.47	0.23	19.5	38
	medium	2200	16.50	0.21	17.2	38	13.76	0.19	15.5	38
	low	1700	12.29	0.17	14.5	40	10.24	0.16	13.1	43
water temperature gradient 70/50 °C	high	3300	18.08	0.21	17.8	31	14.38	0.19	15.6	34
	medium	2200	11.64	0.17	13.8	33	9.25	0.15	12.2	36
	low	1700	8.70	0.14	11.8	35	6.93	0.12	10.3	38
water temperature gradient 60/40 °C	high	3300	11.41	0.16	13.4	27	8.30	0.13	11.2	30
	medium	2200	7.32	0.12	10.4	29	5.35	0.10	8.7	32
	low	1700	5.47	0.11	8.8	30	9.72	0.09	7.4	38