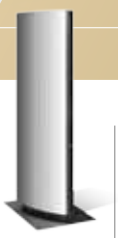
FläktGroup®

AIR DIFFUSION

AIR CURTAINS

AIR CURTAINS

» A COMPLETE RANGE DEVELOPED FOR THE HIGHEST COMFORT AND ENERGY SAVING



AC-Elite Alas

AC-Linea

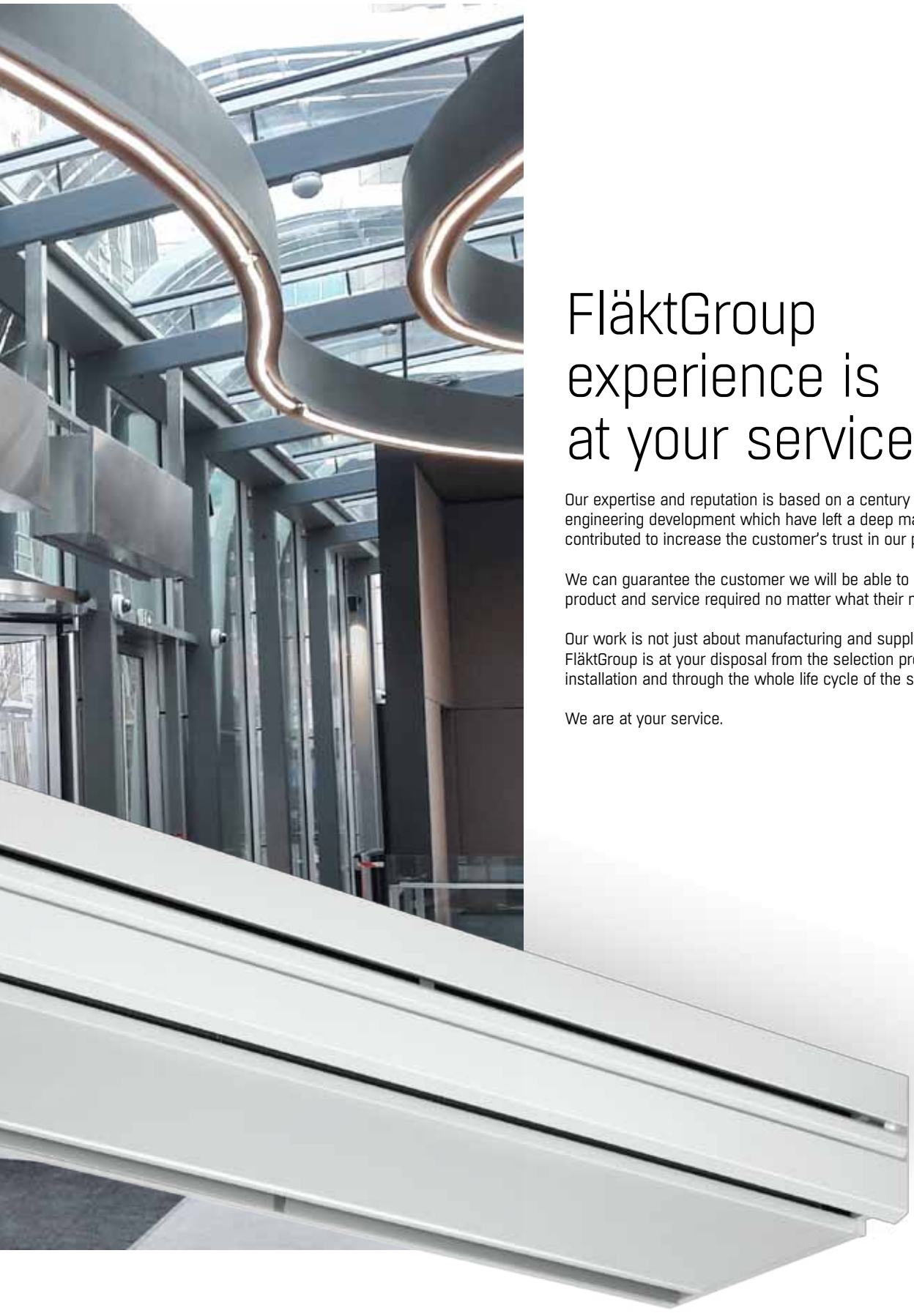
AC-Comfort

AC-Direct Flow

AC-Comfort Flat

AC-Axiplus

EXCELLENCE *IN SOLUTIONS*



FläktGroup experience is at your service

Our expertise and reputation is based on a century of innovation and engineering development which have left a deep mark that contributed to increase the customer's trust in our products.

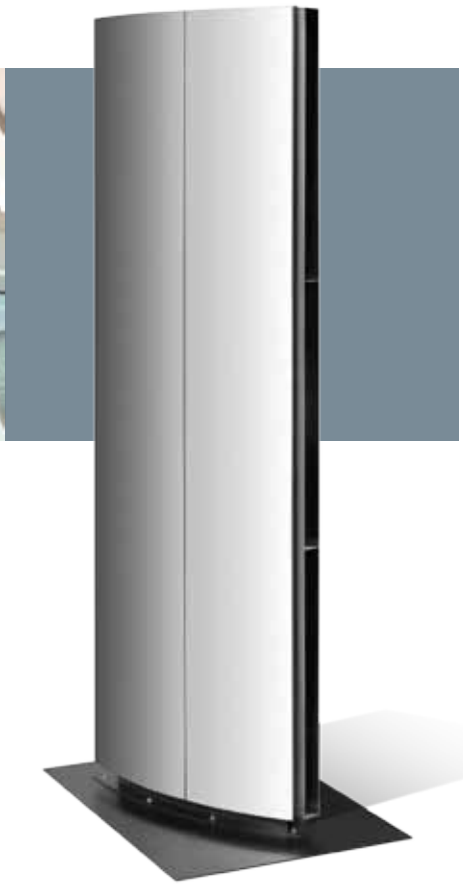
We can guarantee the customer we will be able to provide both product and service required no matter what their need is.

Our work is not just about manufacturing and supplying products. FläktGroup is at your disposal from the selection process up to the installation and through the whole life cycle of the system.

We are at your service.

The invisible door

Shops, storehouses, shopping centres, hotels halls as well as industrial buildings are typical examples of places where the continuous opening of doors generates an exchange between the inside and the outside air which causes sudden temperature changes. For this reason it is clear the need to keep two detached environments without renouncing to an open and clear entrance.



COMFORT AND ENERGY SAVING

FläktGroup Air Curtains are the excellent solution to every problem of this kind: in winter warmth is retained inside and the same happens with air conditioning in summer while dust, smoke, insects and bad smells coming from outside are rejected. Furthermore they are perfect products for environmental comfort and for a responsible energy use: FläktGroup Air Curtains reduce the thermal energy waste, avoiding unwanted heating exchanges between inside and outside spaces.

An investment easy to recover considering the remarkable cost savings related to air conditioning and heating systems. To get the utmost energy efficiency, a careful analysis is to be carried out while selecting the most suitable FläktGroup Air Curtains.

A COMPLETE RANGE

FläktGroup ***Superior*** Air Curtains range are suitable for every type of environment. The ***Design*** Line is available for the spaces where an aesthetic requirement is demanded: rounded shapes and elegant style are the distinctive features of this line.

In industrial environments, where security and speed in moving goods and people are a crucial point, the ***Industrial*** line represents the perfect solution to improve logistics efficiency.

The use of modern and efficient technologies allows to reduce energy consumption and, in the same time, increase quietness.

6 ASPECTS TO TAKE INTO CONSIDERATION WHEN SELECTING AIR CURTAINS

1) Dimension: the entire span width/height shall have to be covered

2) Air velocity: air speed to floor of at least 2m/s shall have to be guaranteed

3) Environment: it shall have to be considered the span resistance due to wind, temperature and pressure gaps between inside and outside as well as transit frequency

4) Flow direction: air curtains shall have to be installed with the air flow slightly oriented outwards, to guarantee proper spaces detachment

5) Power supply: available on spot for electric coil power supply

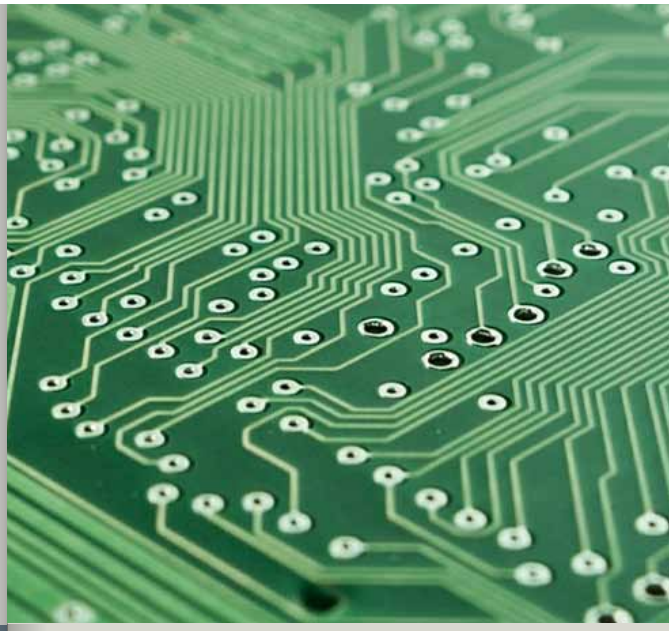
6) Maintenance: it shall have to be provided a proper access for maintenance

Features

Increasing performances, decreasing of energy consumption, better quietness, easy to install and reduction of maintenance intervention: these are just some of the advantages offered by FläktGroup Air Curtains.

SMART OPERATION

Electronic board specifically thought to control the whole Air Curtains operations and accessories as well as door contact, thermostat and BMS. Thanks to the control panel it's possible to control the electric heater steps, water heating ON/OFF valve and the air speed. In both ambient and water versions, it's possible either to delay the switching off of the fans or a reduction to the minimum speed after the door closing and a following turning on at the maximum speed when re-opening. These features will allow to increase the efficiency and guarantee the best comfort.



ADJUSTABLE BLADES

The air supply is controlled by an adjustable blade that allows to direct the air flow launch; in this way any pressure gap, caused by suction systems or airstreams, is balanced and the results as well as the Air Curtains efficiency are maximised.

MAINTENANCE - FREE

Investigation of solutions dedicated to eliminate the Air Curtains maintenance: water heating version allows to avoid dust deposits thanks to an increased distance among blades. Best relation between the exterior sizes and heating performances. Decreasing of the operational costs and increasing of the product useful life.

Features

PLUG & PLAY CONNECTIONS

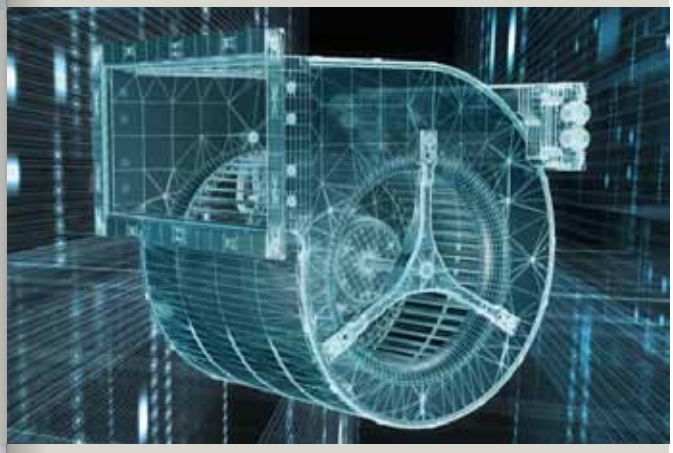
The Plug & Play connections with wired control guarantee both simple and fast system installation and putting into service, avoiding mistakes during the operations of electrical connection.

FLOW RECTIFIER

FläktGroup Air Curtains are equipped with sound-absorbent flow rectifier allowing to decrease system's pressure drop as well as the breakout noise from the casing. The outward air flow velocity is 35% higher than the inward one, gaining in this way a more shielding effect and less inductive effects on tempered indoor air.

EC MOTOR

FläktGroup Air Curtains can be also provided with EC motor, characterised by high energy efficiency and further improved performances.



CUSTOMIZATION

FläktGroup offers their customers many ways to personalise their products: different colours are available, the coils dimensions can be increased or decreased depending on specific needs.

Maximum air speed depending on the distances

**Speed values are referred to models suitable to be installed at maximum height and are the result of lab tests. Effective performances of installed Air Curtains can be influenced by different type of wind exposition and the presence of suction systems inside the building.*

Superior Line

AC-Linea
AC-Comfort HEIGHTS UP TO 5.5 METERS

Water heating · Electrical heating · Air only version (ambient) · Horizontal installation · Vertical installation · Heights up to 5.5 meters · High efficiency EC motor

LENGTHS:
1 - 1.5 - 2 – 2.5 – 3 m

AIR FLOW:
Electrical heating: from 1,880 to 18,300 m^3/h
Water heating: from 1,860 to 18,000 m^3/h
Air only (ambient): from 1,900 to 18,600 m^3/h

HEATING OUTPUT:
Electrical heating: from 9 to 36 kW
Water heating: from 14 to 97 kW

FEATURES:
- Visible or recessed installation
- Available in different colours
- Cooling water version available
- Maintenance-free (AC- Comfort)
- Elegant front panel (AC-Comfort)
- Available in version for vertical installation

APPLICATIONS:
Suitable for all commercial applications

AC-Direct Flow HEIGHTS UP TO 5.5 METERS

Water heating · Electrical heating · Air only version (ambient) · Horizontal installation · Vertical installation · Heights up to 5.5 meters · High efficiency EC motor

LENGTHS:
1 - 1.5 - 2 – 2.5 – 3 m

AIR FLOW:
Electrical heating: from 1,880 to 18,300 m^3/h
Water heating: from 1,860 to 18,000 m^3/h
Air only (ambient): from 1,900 to 18,600 m^3/h

HEATING OUTPUT:
Electrical heating: from 9 to 36 kW
Water heating: from 14 to 97 kW

FEATURES:
- Air inlet and outlet on the same axis
- Reduced height (270mm)
- Front panel personalisation
- Available in version for vertical installation

APPLICATIONS:
Suitable for all commercial applications

AC-Comfort Flat HEIGHTS UP TO 3.8 METERS

Water heating · Electrical heating · Air only version (ambient) · Recessed installation · Heights up to 3.8 meters · High efficiency EC motor

LENGTHS:
1 - 1.5 - 2 – 2.5 – 3 m

AIR FLOW:
Electrical heating: from 1,880 to 7,520 m^3/h
Water heating: from 1,860 to 7,440 m^3/h
Air only (ambient): from 1,900 to 7,600 m^3/h

HEATING OUTPUT:
Electrical heating: from 9 to 36 kW
Water heating: from 14 to 55 kW

FEATURES:
- High performances, low sound levels and easy to install
- Only 22 cm height
- Easy to access for maintenance
- Available in different colours

APPLICATIONS:
Suitable for commercial applications that require high performances and in false ceilings with reduced depth

Design Line

AC-Elite Oval

MAXIMUM DISTANCES UP TO 3.8 METERS

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor
Horizontal installation
Vertical installation
Heights up to 3.8 meters

LENGTHS:
1 - 1.5 - 2 – 2.5 – 3 m

AIR FLOW:
Electrical heating: from 1,880 to 7,520 m^3/h
Water heating: from 1,860 to 7,440 m^3/h
Air only (ambient): from 1,900 to 7,600 m^3/h

HEATING OUTPUT:
Electrical heating: from 9 to 36 kW
Water heating: from 14 to 55 kW

FEATURES:
- Slim design
- Customization
- Available in different colours

APPLICATIONS:
Suitable for all commercial applications requiring high performances and elegant design

AC-Elite Round

MAXIMUM DISTANCES UP TO 5.5 METERS

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor
Horizontal installation
Vertical installation
Heights up to 5.5 meters

LENGTHS:
1 - 1.5 - 2 – 2.5 – 3 m

AIR FLOW:
Electrical heating: from 1,880 to 18,300 m^3/h
Water heating: from 1,860 to 18,000 m^3/h
Air only (ambient): from 1,900 to 18,600 m^3/h

HEATING OUTPUT:
Electrical heating: from 9 to 36 kW
Water heating: from 14 to 97 kW

FEATURES:
- Rounded shape
- Customization
- Available in different colours

APPLICATIONS:
Suitable for all commercial applications requiring high performances and elegant design

AC-Elite Alas

MAXIMUM DISTANCES UP TO 3.8 METERS

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor
Horizontal installation
Vertical installation
Heights up to 3.8 meters

LENGTHS:
1 - 1.5 - 2 – 2.5 – 3 m

AIR FLOW:
Electrical heating: from 1,880 to 7,520 m^3/h
Water heating: from 1,860 to 7,440 m^3/h
Air only (ambient): from 1,900 to 7,600 m^3/h

HEATING OUTPUT:
Electrical heating: from 9 to 36 kW
Water heating: from 14 to 55 kW

FEATURES:
- Wing spread looking profile
- Customization
- Available in different colours

APPLICATIONS:
Suitable for all commercial applications requiring high performances and elegant design

Industrial Line

AC-Axiplus **HEIGHTS UP TO 6 METERS**

Water heating | Air only version (ambient) | Horizontal installation | Vertical installation | Heights up to 6 meters

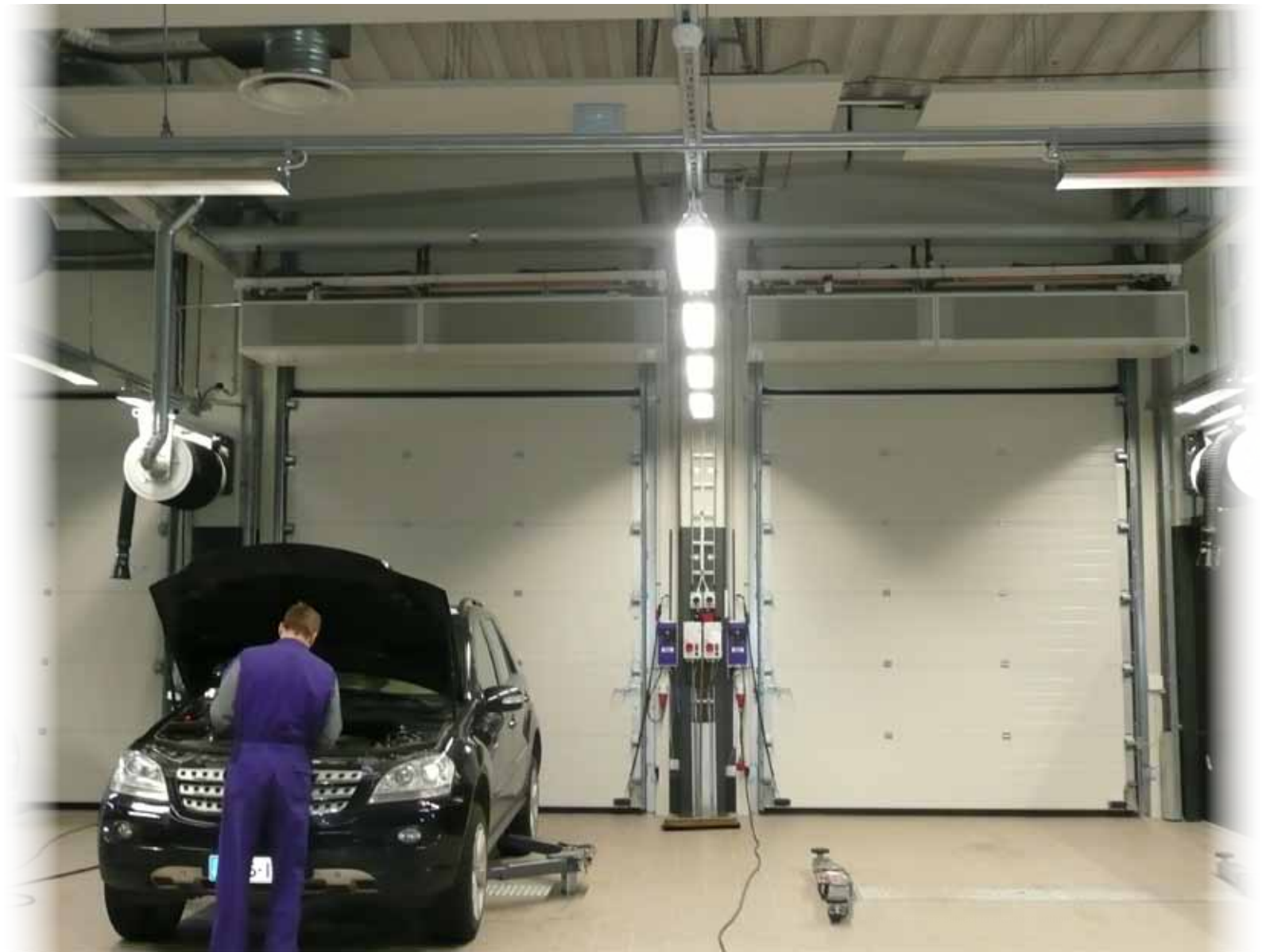
LENGTHS:
1,2 - 1,8 - 2,4 – 3 m

AIR FLOW:
Water heating: from 8,400 to 21,000 m^3/h
Air only (ambient): from 10,400 to 26,000 m^3/h

HEATING OUTPUT:
Water heating: from 34 to 104 kW

FEATURES:
- No need of dust filter
- Frost protection available as option
- Available in different colours

APPLICATIONS:
Suitable for big openings of factories, hangars, storehouses and similar



Air curtains » Superior

AC-Linea

AC-LINEA Air Curtains are available for horizontal installation above entrance doors. Installation heights from 3 to 5.5 meters. Suitable for all commercial applications: shops, offices, shopping centres and hotels.

AC-Linea range includes ambient versions, and versions with electrical heating or water heating, with lengths of 1,000, 1,500, 2,000, 2,500 and 3,000 mm (M – G – B- BB versions). Also available with high efficiency EC motor.

Casing made of hot zinc plated and powder coated steel panels, white colour RAL 9016 containing powerful centrifugal fans.

AC-Linea range requires very little maintenance, thanks to a micro-perforated metal grille the dust can be easily removed with a simple cloth or with a vacuum cleaner.

Control systems (included): R510 model with 5 fan speed steps for both ambient and hot water version; R310 respectively controls the fan speed and heating in 3 steps. Plug and Play connections to the controller are easily accessible to ensure a fast and easy installation of the system.
Electrical heaters are equipped with a three levels security system and an automatic correlation between the air flow and heating to avoid dangerous overheating.

Control systems (optional): R515 with 5 fan speed steps for both ambient and hot water version, for door contact and room thermostat connection.

Motor protection class:
IP 20 for B-BB models and IP44 for M-G models.

Electrical supply:
single phase 230V/50Hz (ambient version and with water heating) or three phases 400V/50 Hz (electrical heating versions).

On request:
- AISI 304 stainless steel version
- Other RAL colours
- Version for vertical mounting with horizontal air flow, floor bracket needed
- Water heating coil with higher heating capacity (see page 33 for technical data)

VERSION

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor

INSTALLATION

Horizontal installation
Vertical installation
Up to 5.5 meters
Plug & Play
Pre-wired controller

AIR FLOW

Up to 18,600 m³/h

ACCESSORIES

- ZDE installation kit for mounting flush with the ceiling
- ZDS ceiling installation kit with sliding ducts (inlet/outlet)
- Room thermostat, wall bracket. Ceiling mounting kit with anti-vibration mounts
- R515 control panel for water heating models: for door contact and room thermostat functioning
- 3-way ON/OFF valve
- Mechanical or magnetic door contact
- Drain tray AISI 304 to be used with cooling water

Technical features – Ambient version with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACLM10A-I	1000	3	230/50/1	460	2.1	5	877	1023	1,242	1,461	1,680	38	53	54
ACLM15A-I	1500	3	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	39	54	83
ACLM20A-I	2000	3	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	41	55	109
ACLM25A-I	2500	3	230/50/1	1,150	5.25	5	2,191	2,557	3,104	3,652	4,200	42	56	140
ACLM30A-I	3000	3	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	57	163
ACLG10A-I	1000	3.5	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	41	54	57
ACLG15A-I	1500	3.5	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	42	55	84
ACLG20A-I	2000	3.5	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	56	113
ACLG25A-I	2500	3.5	230/50/1	1,610	7.35	5	3,068	3,579	4,346	5,113	5,880	44	57	146
ACLG30A-I	3000	3.5	230/50/1	1,840	8.4	5	3,506	4,090	4,967	5,843	6,720	45	58	170
ACLB10A-I	1000	4	230/50/1	1,005	4.38	5	2,137	2,493	3,027	3,561	4,095	44	57	90
ACLB15A-I	1500	4	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	45	58	103
ACLB20A-I	2000	4	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	47	60	133
ACLB25A-I	2500	4	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	49	62	180
ACLB30A-I	3000	4	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	50	63	224
ACLBB10A-I	1000	5	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	48	58	100
ACLBB15A-I	1500	5	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	49	60	119
ACLBB20A-I	2000	5	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	51	61	140
ACLBB25A-I	2500	5	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	52	62	186
ACLBB30A-I	3000	5	230/50/1	4,020	17.52	5	8,546	9,970	12,107	14,243	16,380	53	64	243

Technical features – Ambient version with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACLM10A-EC-I	1000	3.3	230/50/1	334	2.6	5	380	760	1,140	1,520	1,900	20	55	54
ACLM15A-EC-I	1500	3.3	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	83
ACLM20A-EC-I	2000	3.3	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	109
ACLM25A-EC-I	2500	3.3	230/50/1	835	6.5	5	950	1,900	2,850	3,800	4,750	23	58	140
ACLM30A-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	24	59	163
ACLG10A-EC-I	1000	3.8	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	57
ACLG15A-EC-I	1500	3.8	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	84
ACLG20A-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	23	58	113
ACLG25A-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,330	2,660	3,990	5,320	6,650	24	59	146
ACLG30A-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,520	3,040	4,560	6,080	7,600	25	60	170
ACLB10A-EC-I	1000	4.5	230/50/1	1,125	4.95	5	930	1,860	2,790	3,720	4,650	24	59	90
ACLB15A-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	103
ACLB20A-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	133
ACLB25A-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	29	64	180
ACLB30A-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	30	65	224
ACLBB10A-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	100
ACLBB15A-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	119
ACLBB20A-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	28	63	140
ACLBB25A-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	29	64	186
ACLBB30A-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,720	7,440	11,160	14,880	18,600	31	66	243

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Technical features – Electric series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACLM10E-I	1000	3	230/50/1	460	2.1	3	866	1,660	38	53	400/50/3	3/6/9	3 x 13	10	58
ACLM15E-I	1500	3	230/50/1	690	3.15	3	1,299	2,490	39	54	400/50/3	4/8/12	3 x 17	10	88
ACLM20E-I	2000	3	230/50/1	920	4.2	3	1,732	3,320	41	55	400/50/3	6/12/18	3 x 26	10	116
ACLM25E-I	2500	3	230/50/1	1,150	5.25	3	2,165	4,150	42	56	400/50/3	6/12/18	3 x 26	10	148
ACLM30E-I	3000	3	230/50/1	1,380	6.3	3	2,598	4,980	43	57	400/50/3	8/16/24	3 x 35	10	170
ACLG10E-I	1000	3.5	230/50/1	690	3.15	3	1,299	2,490	41	54	400/50/3	5/10/15	3 x 22	10	62
ACLG15E-I	1500	3.5	230/50/1	920	4.2	3	1,732	3,320	42	55	400/50/3	7.5/15/22.5	3 x 33	10	90
ACLG20E-I	2000	3.5	230/50/1	1,380	6.3	3	2,598	4,980	43	56	400/50/3	10/20/30	3 x 43	10	120
ACLG25E-I	2500	3.5	230/50/1	1,610	7.35	3	3,031	5,810	44	57	400/50/3	12/24/36	3 x 52	10	152
ACLG30E-I	3000	3.5	230/50/1	1,840	8.4	3	3,464	6,640	45	58	400/50/3	12/24/36	3 x 52	10	175
ACLB10E-I	1000	4	230/50/1	1,005	4.38	3	2,097	4,020	44	57	400/50/3	5/10/15	3 x 22	10	95
ACLB15E-I	1500	4	230/50/1	1,340	5.84	3	2,797	5,360	45	58	400/50/3	7.5/15/22.5	3 x 33	10	111
ACLB20E-I	2000	4	230/50/1	2,010	8.76	3	4,195	8,040	47	60	400/50/3	10/20/30	3 x 43	10	138
ACLB25E-I	2500	4	230/50/1	2,680	11.68	3	5,593	10,720	49	62	400/50/3	12/24/36	3 x 52	10	187
ACLB30E-I	3000	4	230/50/1	3,350	14.6	3	6,991	13,400	50	63	400/50/3	12/24/36	3 x 52	10	230
ACLBB10E-I	1000	5	230/50/1	1,340	5.84	3	2,797	5,360	48	58	400/50/3	5/10/15	3 x 52	10	105
ACLBB15E-I	1500	5	230/50/1	2,010	8.76	3	4,195	8,040	49	60	400/50/3	7.5/15/22.5	3 x 33	10	126
ACLBB20E-I	2000	5	230/50/1	2,680	11.68	3	5,593	10,720	51	61	400/50/3	10/20/30	3 x 43	10	147
ACLBB25E-I	2500	5	230/50/1	3,350	14.6	3	6,991	13,400	52	62	400/50/3	12/24/36	3 x 52	10	195
ACLBB30E-I	3000	5	230/50/1	4,020	17.52	3	8,390	16,080	53	64	400/50/3	12/24/36	3 x 52	10	250

Technical features – Electric series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level* (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACLM10E-EC-I	1000	3.3	230/50/1	334	2.6	3	376	1,880	20	55	400/50/3	3/6/9	3 x 13	10	58
ACLM15E-EC-I	1500	3.3	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	4/8/12	3 x 17	10	88
ACLM20E-EC-I	2000	3.3	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	6/12/18	3 x 26	10	116
ACLM25E-EC-I	2500	3.3	230/50/1	835	6.5	3	940	4,700	23	58	400/50/3	6/12/18	3 x 26	10	148
ACLM30E-EC-I	3000	3.3	230/50/1	1,002	7.8	3	1,128	5,640	24	59	400/50/3	8/16/24	3 x 35	10	170
ACLG10E-EC-I	1000	3.8	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	5/10/15	3 x 22	10	62
ACLG15E-EC-I	1500	3.8	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	7.5/15/22.5	3 x 33	10	90
ACLG20E-EC-I	2000	3.8	230/50/1	1,002	7.8	3	1,128	5,640	23	58	400/50/3	10/20/30	3 x 43	10	120
ACLG25E-EC-I	2500	3.8	230/50/1	1,169	9.1	3	1,316	6,580	24	59	400/50/3	12/24/36	3 x 52	10	152
ACLG30E-EC-I	3000	3.8	230/50/1	1,336	10.4	3	1,504	7,520	25	60	400/50/3	12/24/36	3 x 52	10	175
ACLB10E-EC-I	1000	4.5	230/50/1	1,125	4.95	3	915	4,575	24	59	400/50/3	5/10/15	3 x 22	10	95
ACLB15E-EC-I	1500	4.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	7.5/15/22.5	3 x 33	10	111
ACLB20E-EC-I	2000	4.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	10/20/30	3 x 43	10	138
ACLB25E-EC-I	2500	4.5	230/50/1	3,000	13.2	3	2,440	12,200	29	64	400/50/3	12/24/36	3 x 52	10	187
ACLB30E-EC-I	3000	4.5	230/50/1	3,750	16.5	3	3,050	15,250	30	65	400/50/3	12/24/36	3 x 52	10	230
ACLBB10E-EC-I	1000	5.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	5/10/15	3 x 52	10	105
ACLBB15E-EC-I	1500	5.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	7.5/15/22.5	3 x 33	10	126
ACLBB20E-EC-I	2000	5.5	230/50/1	3,000	13.2	3	2,440	12,200	28	63	400/50/3	10/20/30	3 x 43	10	147
ACLBB25E-EC-I	2500	5.5	230/50/1	3,750	16.5	3	3,050	15,250	29	64	400/50/3	12/24/36	3 x 52	10	195
ACLBB30E-EC-I	3000	5.5	230/50/1	4,500	19.8	3	3,660	18,300	31	66	400/50/3	12/24/36	3 x 52	10	250

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Control – Electrical heating

R310E - 3-steps manual control included for electric heating version, connectable to ten air curtains at the same time

- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

Technical features – Water heating series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACLM10W-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
ACLM15W-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
ACLM20W-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
ACLM25W-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
ACLM30W-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
ACLG10W-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
ACLG15W-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
ACLG20W-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
ACLG25W-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
ACLG30W-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185
ACLB10W-I	1000	4	230/50/1	1,005	4.38	5	2,058	2,401	2,916	3,430	3,945	44	57	105
ACLB15W-I	1500	4	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	45	58	125
ACLB20W-I	2000	4	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	47	60	155
ACLB25W-I	2500	4	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	49	62	205
ACLB30W-I	3000	4	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	50	63	245
ACLBB10W-I	1000	5	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	48	58	115
ACLBB15W-I	1500	5	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	49	60	135
ACLBB20W-I	2000	5	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	51	61	175
ACLBB25W-I	2500	5	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	52	62	218
ACLBB30W-I	3000	5	230/50/1	4,020	17.52	5	8,233	9,605	11,663	13,722	15,780	53	64	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C				**Water temperature 7/12°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACLM10W-I	1,640	12.98	41.2	12.4	0.6	7.55	31.5	4.9	0.3	5.32	27.5	9.3	0.5	3.42	20.9	4.7	0.3
ACLM15W-I	2,460	20.54	42.4	18.3	0.9	12.08	32.4	7.3	0.5	8.47	28.1	13.9	0.7	5.88	20.4	7.3	0.5
ACLM20W-I	3,280	28.06	43	20.4	1.2	16.59	32.8	8.3	0.7	11.6	28.3	15.6	1	8.31	20.2	9.3	0.7
ACLM25W-I	4,100	35.55	43.4	24.3	1.6	21.07	33	9.8	0.9	14.73	28.5	18.5	1.3	10.72	20.1	10.2	0.9
ACLM30W-I	4,920	42.82	43.5	17.4	1.9	25.29	33	7	1.1	17.69	28.5	13.3	1.5	12.85	20.1	8.3	1.1
ACLG10W-I	2,460	16.39	37.5	19	0.7	9.49	29.3	7.4	0.4	6.7	26	14.2	0.6	4.5	21.5	7.6	0.4
ACLG15W-I	3,280	24.31	39.7	25	1.1	14.25	30.7	9.8	0.6	10.01	26.9	18.8	0.9	7	21	9.9	0.6
ACLG20W-I	4,920	35.58	39.1	31.4	1.6	20.94	30.5	12.6	0.9	14.69	26.7	24	1.3	10.56	21.1	14.4	0.9
ACLG25W-I	5,740	43.38	40.1	35	1.9	25.6	31	14	1.1	17.94	27.1	26.6	1.6	13.03	20.8	14.5	1.1
ACLG30W-I	6,560	50.77	40.6	23.8	2.2	29.92	31.3	9.5	1.3	20.96	27.3	18.1	1.8	15.15	20.7	11.1	1.3
ACLB10W-I	3,945	21.13	33.7	10.3	0.9	11.97	26.9	3.9	0.5	8.54	24.3	7.6	0.7	5.37	22.5	4.3	0.5
ACLB15W-I	5,260	33.36	36.5	16.6	1.5	19.34	28.8	6.4	0.8	13.67	25.6	12.3	1.2	9.17	21.8	6.1	0.8
ACLB20W-I	7,890	49.67	36.4	21.9	2.2	28.99	28.7	8.6	1.3	20.43	25.6	16.6	1.8	14.73	21.7	10.6	1.3
ACLB25W-I	10,520	66.05	36.4	29	2.9	38.63	28.7	11.3	1.7	27.19	25.6	21.8	2.4	19.63	21.7	12.2	1.7
ACLB30W-I	13,150	81.9	36.2	22.1	3.6	47.76	28.6	8.6	2.1	33.64	25.5	16.6	2.9	24.01	21.7	10.2	2.1
ACLBB10W-I	5,260	24.45	31.6	13.5	1.1	13.83	25.7	5	0.6	9.88	23.5	9.9	0.9	6.39	22.9	5.9	0.6
ACLBB15W-I	7,890	41.25	33.3	24.5	1.8	23.81	26.8	9.3	1	16.87	24.3	18.2	1.5	11.38	22.5	9.1	1
ACLBB20W-I	10,520	57.8	34.1	28.9	2.5	33.65	27.4	11.3	1.5	23.76	24.6	21.8	2.1	17	22.2	13.8	1.5
ACLBB25W-I	13,150	74.25	34.5	36	3.3	43.37	27.6	14	1.9	30.59	24.8	27.1	2.7	21.92	22.1	14.9	1.9
ACLBB30W-I	15,780	90.17	34.7	26.3	4	52.46	27.7	10.2	2.3	37.03	24.9	19.7	3.2	26.3	22.1	12	2.3

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C. **Air inlet temperature: 26°C-55% R.U. The cooling performances were calculated maintaining the same water flow used when heating 60/40°C. Water outlet temperature can be +/-2°C altered.*

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Technical features – Water heating series with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m³/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACLM10W-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
ACLM15W-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
ACLM20W-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
ACLM25W-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
ACLM30W-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
ACLG10W-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
ACLG15W-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
ACLG20W-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
ACLG25W-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
ACLG30W-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185
ACLB10W-EC-I	1000	4.5	230/50/1	1,125	4.95	5	900	1,800	2,700	3,600	4,500	24	59	105
ACLB15W-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	125
ACLB20W-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	155
ACLB25W-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	29	64	205
ACLB30W-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	30	65	245
ACLBB10W-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	115
ACLBB15W-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	135
ACLBB20W-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	28	63	175
ACLBB25W-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	29	64	218
ACLBB30W-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,600	7,200	10,800	14,400	18,000	31	66	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m³/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C				**Water temperature 7/12°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)
ACLM10W-EC-I	1,860	13.98	40	14.2	0.6	8.11	30.8	5.5	0.4	5.72	27	10.7	0.5	4.22	20.8	7.6	0.4
ACLM15W-EC-I	2,790	22.12	41.2	21	1	13	31.6	8.3	0.6	9.12	27.6	15.9	0.8	6.74	20.5	9.9	0.6
ACLM20W-EC-I	3,720	30.25	41.8	23.4	1.3	17.85	32	9.4	0.8	12.5	27.8	17.9	1.1	9.24	20.4	11.7	0.8
ACLM25W-EC-I	4,650	38.35	42.1	27.9	1.7	22.68	32.3	11.2	1	15.87	28	21.3	1.4	11.74	20.3	12.2	1
ACLM30W-EC-I	5,580	46.17	42.2	20	2	27.23	32.3	8	1.2	19.07	28	15.2	1.7	13.93	20.3	9.7	1.2
ACLG10W-EC-I	2,790	17.59	36.4	21.7	0.8	10.17	28.7	8.4	0.4	7.19	25.5	16.2	0.6	4.62	21.8	7.6	0.4
ACLG15W-EC-I	3,720	26.13	38.5	28.5	1.1	15.3	30	11.2	0.7	10.76	26.5	21.5	0.9	7.88	21.1	12.9	0.7
ACLG20W-EC-I	5,580	38.23	38	35.8	1.7	22.47	29.8	14.3	1	15.78	26.3	27.3	1.4	11.54	21.3	17.4	1
ACLG25W-EC-I	6,510	46.63	39	39.9	2.1	27.5	30.4	15.9	1.2	19.28	26.7	30.3	1.7	14.1	21.1	17	1.2
ACLG30W-EC-I	7,440	54.64	39.5	27.2	2.4	32.14	30.6	10.8	1.4	22.55	26.9	20.7	2	16.29	21	12.6	1.4
ACLB10W-EC-I	4,500	22.6	32.7	11.7	1	12.8	26.3	4.4	0.6	9.14	23.9	8.6	0.8	6.2	22.6	5.9	0.6
ACLB15W-EC-I	6,000	35.8	35.5	18.9	1.6	20.72	28.1	7.2	0.9	14.64	25.1	14	1.3	10.12	22	7.6	0.9
ACLB20W-EC-I	9,000	53.31	35.3	24.9	2.3	31.05	28.1	9.8	1.4	21.91	25.1	18.8	1.9	15.81	21.9	12.2	1.4
ACLB25W-EC-I	12,000	70.77	35.2	32.9	3.1	41.4	28.1	12.9	1.8	29.17	25.1	24.8	2.5	20.86	21.9	13.5	1.8
ACLB30W-EC-I	15,000	87.74	35.1	25	3.9	51.14	28	9.8	2.2	36.06	25	18.8	3.1	25.34	22	11.1	2.2
ACLBB10W-EC-I	6,000	26.1	30.7	15.2	1.1	14.74	25.2	5.6	0.6	10.55	23.1	11.2	0.9	6.55	23.1	5.9	0.6
ACLBB15W-EC-I	9,000	44.14	32.3	27.7	1.9	25.45	26.3	10.5	1.1	18.04	23.9	20.6	1.6	12.38	22.6	10.9	1.1
ACLBB20W-EC-I	12,000	61.84	33.1	32.7	2.7	35.96	26.8	12.8	1.6	25.41	24.2	24.7	2.2	18.13	22.4	15.5	1.6
ACLBB25W-EC-I	15,000	79.53	33.5	40.8	3.5	46.4	27	15.9	2	32.73	24.4	30.6	2.8	23.22	22.3	16.3	2
ACLBB30W-EC-I	18,000	96.52	33.7	29.8	4.2	56.1	27.1	11.6	2.4	39.65	24.4	22.4	3.4	27.69	22.3	13	2.4

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C. **Air inlet temperature: 26°C-55% R.U. The cooling performances were calculated maintaining the same water flow used when heating 60/40°C. Water outlet temperature can be +/-2°C altered.*

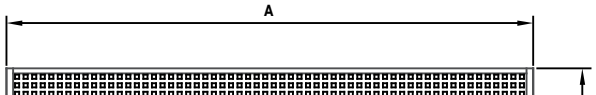
Control – Water heating

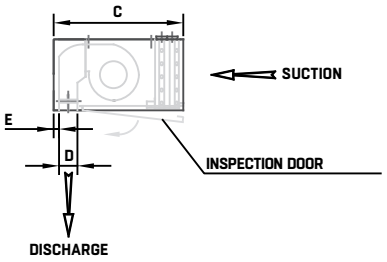
R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)

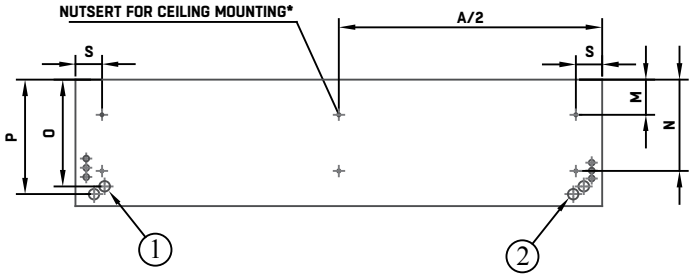
R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Dimensions (mm) - horizontal installation

Model	A	B	C	D	E	M	N	O	P	S
AC-L M - AC-L G	1000-3000	270	480	70	20	133	347	395	425	100
AC-L B - AC-L BB	1000-2500	420	700	90	20	125	530	600	628	100
AC-L B - AC-L BB	3000	440	700	90	20	125	530	600	628	100





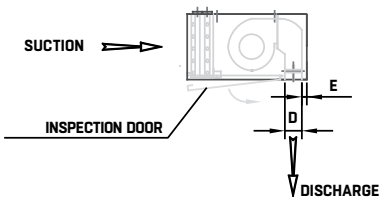


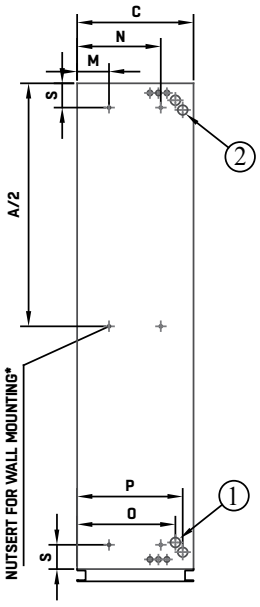
* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB
** Water connections side 1) standard; 2) on request
Water connections sizes: 3/4" M-G – 1" B-BB
*** Cables connections: right side standard; left side on request

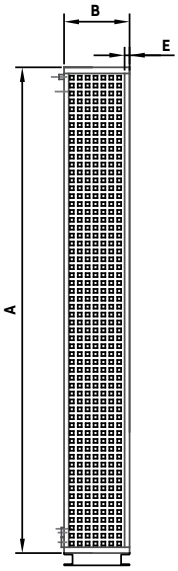
Dimensions (mm) - vertical installation

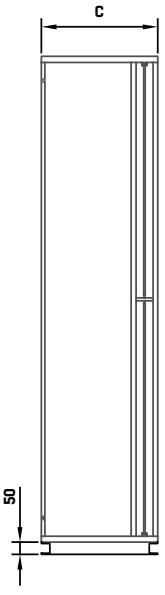
Model	A	B	C	D	E	M	N	O	P	S
AC-L M - AC-L G	1000-3000	270	480	70	20	133	347	395	425	100
AC-L B - AC-L BB	1000-2500	420	700	90	20	125	530	600	628	100
AC-L B - AC-L BB	3000	440	700	90	20	125	530	600	628	100

* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB
** Water connections side: 2) standard; 1) on request
Water connections sizes: 3/4" M-G – 1" B-BB
*** Cables connections: 2) standard; 1) on request
Specify while ordering the air curtains installation side.



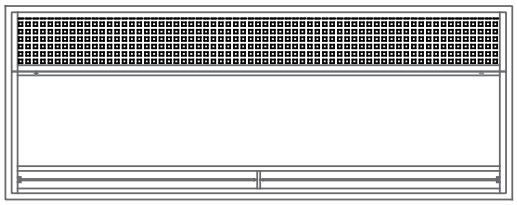


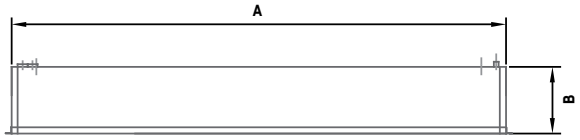


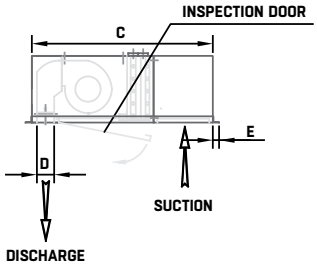


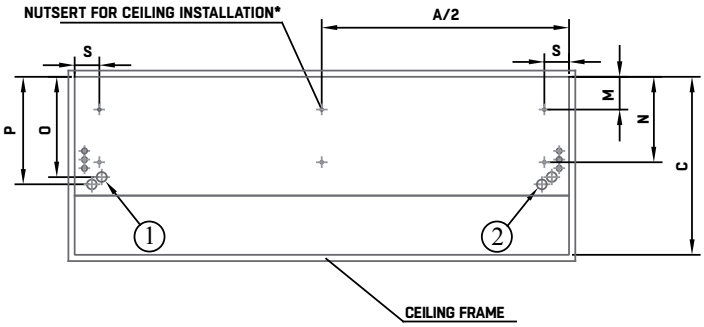
Dimensions (mm) - ZDE kit version

Model	A	B	C	D	E	M	N	O	P	S
AC-LM - AC-LG	1000-3000	270	720	70	25	133	347	395	425	100
AC-LB - AC-LBB	1000-2500	420	1100	90	25	125	530	600	628	100
AC-LB - AC-LBB	3000	440	1100	90	25	125	530	600	628	100





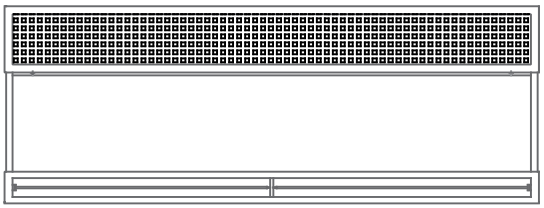




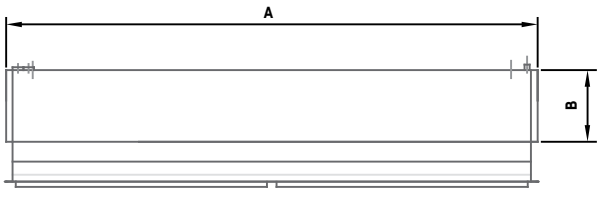
* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB
** Water connections side 1) standard; 2) on request
Water connections sizes: 3/4" M-G – 1" B-BB
*** Cables connections: right side standard; left side on request

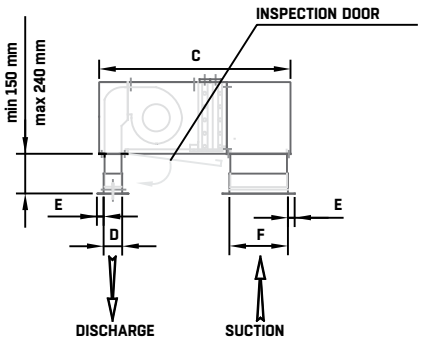
Dimensions (mm) - ZDS kit version

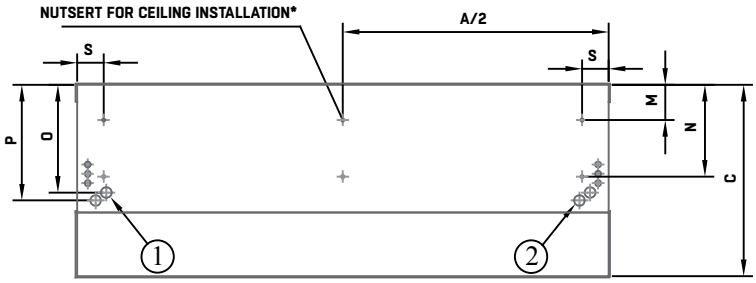
Model	A	B	C	D	E	F	M	N	O	P	S
AC-LM - AC-LG	1000-3000	270	720	70	25	220	133	347	395	425	100
AC-LB - AC-LBB	1000-2500	420	1100	90	25	366	125	530	600	628	100
AC-LB - AC-LBB	3000	440	1100	90	25	366	125	530	600	628	100



* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB
** Water connections side 1) standard; 2) on request
Water connections sizes: 3/4" M-G – 1" B-BB
*** Cables connections: right side standard; left side on request







Installation

Horizontal suspended

Flush with false ceiling (ZDE kit)

Sliding inlet/outlet ducts recessed with false ceiling (ZDS kit)

Vertical

Air curtains » Superior

AC-Comfort

AC-Comfort Air Curtains are available for horizontal installation above entrance doors. Installation heights from 3 to 5.5 meters. Suitable for all commercial applications: shops, offices, shopping centres and hotels.

AC-Comfort range includes ambient versions, and versions with electrical heating or water heating, with lengths of 1,000, 1,500, 2,000, 2,500 and 3,000 mm (M – G – B- BB versions). Also available with high efficiency EC motor.

Casing made of hot zinc plated and powder coated steel panels, white colour RAL 9016 containing powerful centrifugal fans.

Due to a special inlet panel and to an increased distance among fins, AC-Comfort range does not require any filter cleaning and is maintenance-free.

Control systems (included): R510 model with 5 fan speed steps for both ambient and hot water version; R310 respectively controls the fan speed and heating in 3 steps. Plug and Play connections to the controller are easily accessible to ensure a fast and easy installation of the system.
Electrical heaters are equipped with a three levels security system and an automatic correlation between the air flow and heating to avoid dangerous overheating.

Control systems (optional): R515 with 5 fan speed steps for both ambient and hot water version, for door contact and room thermostat connection.

Motor protection class:
IP 20 for B-BB models and IP44 for M-G models.

Electrical supply:
single phase 230V/50Hz (ambient version and with water heating) or three phases 400V/50 Hz (electrical heating versions).

On request:
- AISI 304 stainless steel version
- Other RAL colours
- Version for vertical mounting with horizontal air flow, floor bracket needed
- Water heating coil with higher heating capacity (see page 33 for technical data)

VERSION

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor

INSTALLATION

Horizontal installation
Vertical installation
Up to 5.5 meters
Plug & Play
Pre-wired controller

AIR FLOW

Up to 18,600 m³/h

ACCESSORIES

- Room thermostat, wall bracket. Ceiling mounting kit with anti-vibration mounts
- R515 control panel for water heating models: for door contact and room thermostat functioning
- 3-way ON/OFF valve
- Mechanical or magnetic door contact
- Drain tray AISI 304 to be used with cooling water

Technical features – Ambient version with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACCM10A-I	1000	3	230/50/1	460	2.1	5	877	1023	1,242	1,461	1,680	38	53	54
ACCM15A-I	1500	3	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	39	54	83
ACCM20A-I	2000	3	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	41	55	109
ACCM25A-I	2500	3	230/50/1	1,150	5.25	5	2,191	2,557	3,104	3,652	4,200	42	56	140
ACCM30A-I	3000	3	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	57	163
ACCG10A-I	1000	3.5	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	41	54	57
ACCG15A-I	1500	3.5	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	42	55	84
ACCG20A-I	2000	3.5	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	56	113
ACCG25A-I	2500	3.5	230/50/1	1,610	7.35	5	3,068	3,579	4,346	5,113	5,880	44	57	146
ACCG30A-I	3000	3.5	230/50/1	1,840	8.4	5	3,506	4,090	4,967	5,843	6,720	45	58	170
ACCB10A-I	1000	4	230/50/1	1,005	4.38	5	2,137	2,493	3,027	3,561	4,095	44	57	90
ACCB15A-I	1500	4	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	45	58	103
ACCB20A-I	2000	4	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	47	60	133
ACCB25A-I	2500	4	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	49	62	180
ACCB30A-I	3000	4	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	50	63	224
ACCBB10A-I	1000	5	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	48	58	100
ACCBB15A-I	1500	5	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	49	60	119
ACCBB20A-I	2000	5	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	51	61	140
ACCBB25A-I	2500	5	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	52	62	186
ACCBB30A-I	3000	5	230/50/1	4,020	17.52	5	8,546	9,970	12,107	14,243	16,380	53	64	243

Technical features – Ambient version with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACCM10A-EC-I	1000	3.3	230/50/1	334	2.6	5	380	760	1,140	1,520	1,900	20	55	54
ACCM15A-EC-I	1500	3.3	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	83
ACCM20A-EC-I	2000	3.3	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	109
ACCM25A-EC-I	2500	3.3	230/50/1	835	6.5	5	950	1,900	2,850	3,800	4,750	23	58	140
ACCM30A-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	24	59	163
ACCG10A-EC-I	1000	3.8	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	57
ACCG15A-EC-I	1500	3.8	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	84
ACCG20A-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	23	58	113
ACCG25A-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,330	2,660	3,990	5,320	6,650	24	59	146
ACCG30A-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,520	3,040	4,560	6,080	7,600	25	60	170
ACCB10A-EC-I	1000	4.5	230/50/1	1,125	4.95	5	930	1,860	2,790	3,720	4,650	24	59	90
ACCB15A-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	103
ACCB20A-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	133
ACCB25A-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	29	64	180
ACCB30A-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	30	65	224
ACCBB10A-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	100
ACCBB15A-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	119
ACCBB20A-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	28	63	140
ACCBB25A-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	29	64	186
ACCBB30A-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,720	7,440	11,160	14,880	18,600	31	66	243

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Technical features – Electrical series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACCM10E-I	1000	3	230/50/1	460	2.1	3	866	1,660	38	53	400/50/3	3/6/9	3 x 13	10	58
ACCM15E-I	1500	3	230/50/1	690	3.15	3	1,299	2,490	39	54	400/50/3	4/8/12	3 x 17	10	88
ACCM20E-I	2000	3	230/50/1	920	4.2	3	1,732	3,320	41	55	400/50/3	6/12/18	3 x 26	10	116
ACCM25E-I	2500	3	230/50/1	1,150	5.25	3	2,165	4,150	42	56	400/50/3	6/12/18	3 x 26	10	148
ACCM30E-I	3000	3	230/50/1	1,380	6.3	3	2,598	4,980	43	57	400/50/3	8/16/24	3 x 35	10	170
ACCG10E-I	1000	3.5	230/50/1	690	3.15	3	1,299	2,490	41	54	400/50/3	5/10/15	3 x 22	10	62
ACCG15E-I	1500	3.5	230/50/1	920	4.2	3	1,732	3,320	42	55	400/50/3	7.5/15/22.5	3 x 33	10	90
ACCG20E-I	2000	3.5	230/50/1	1,380	6.3	3	2,598	4,980	43	56	400/50/3	10/20/30	3 x 43	10	120
ACCG25E-I	2500	3.5	230/50/1	1,610	7.35	3	3,031	5,810	44	57	400/50/3	12/24/36	3 x 52	10	152
ACCG30E-I	3000	3.5	230/50/1	1,840	8.4	3	3,464	6,640	45	58	400/50/3	12/24/36	3 x 52	10	175
ACCB10E-I	1000	4	230/50/1	1,005	4.38	3	2,097	4,020	44	57	400/50/3	5/10/15	3 x 22	10	95
ACCB15E-I	1500	4	230/50/1	1,340	5.84	3	2,797	5,360	45	58	400/50/3	7.5/15/22.5	3 x 33	10	111
ACCB20E-I	2000	4	230/50/1	2,010	8.76	3	4,195	8,040	47	60	400/50/3	10/20/30	3 x 43	10	138
ACCB25E-I	2500	4	230/50/1	2,680	11.68	3	5,593	10,720	49	62	400/50/3	12/24/36	3 x 52	10	187
ACCB30E-I	3000	4	230/50/1	3,350	14.6	3	6,991	13,400	50	63	400/50/3	12/24/36	3 x 52	10	230
ACCBB10E-I	1000	5	230/50/1	1,340	5.84	3	2,797	5,360	48	58	400/50/3	5/10/15	3 x 52	10	105
ACCBB15E-I	1500	5	230/50/1	2,010	8.76	3	4,195	8,040	49	60	400/50/3	7.5/15/22.5	3 x 33	10	126
ACCBB20E-I	2000	5	230/50/1	2,680	11.68	3	5,593	10,720	51	61	400/50/3	10/20/30	3 x 43	10	147
ACCBB25E-I	2500	5	230/50/1	3,350	14.6	3	6,991	13,400	52	62	400/50/3	12/24/36	3 x 52	10	195
ACCBB30E-I	3000	5	230/50/1	4,020	17.52	3	8,390	16,080	53	64	400/50/3	12/24/36	3 x 52	10	250

Technical features – Electric series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACCM10E-EC-I	1000	3.3	230/50/1	334	2.6	3	376	1,880	20	55	400/50/3	3/6/9	3 x 13	10	58
ACCM15E-EC-I	1500	3.3	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	4/8/12	3 x 17	10	88
ACCM20E-EC-I	2000	3.3	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	6/12/18	3 x 26	10	116
ACCM25E-EC-I	2500	3.3	230/50/1	835	6.5	3	940	4,700	23	58	400/50/3	6/12/18	3 x 26	10	148
ACCM30E-EC-I	3000	3.3	230/50/1	1,002	7.8	3	1,128	5,640	24	59	400/50/3	8/16/24	3 x 35	10	170
ACCG10E-EC-I	1000	3.8	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	5/10/15	3 x 22	10	62
ACCG15E-EC-I	1500	3.8	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	7.5/15/22.5	3 x 33	10	90
ACCG20E-EC-I	2000	3.8	230/50/1	1,002	7.8	3	1,128	5,640	23	58	400/50/3	10/20/30	3 x 43	10	120
ACCG25E-EC-I	2500	3.8	230/50/1	1,169	9.1	3	1,316	6,580	24	59	400/50/3	12/24/36	3 x 52	10	152
ACCG30E-EC-I	3000	3.8	230/50/1	1,336	10.4	3	1,504	7,520	25	60	400/50/3	12/24/36	3 x 52	10	175
ACCB10E-EC-I	1000	4.5	230/50/1	1,125	4.95	3	915	4,575	24	59	400/50/3	5/10/15	3 x 22	10	95
ACCB15E-EC-I	1500	4.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	7.5/15/22.5	3 x 33	10	111
ACCB20E-EC-I	2000	4.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	10/20/30	3 x 43	10	138
ACCB25E-EC-I	2500	4.5	230/50/1	3,000	13.2	3	2,440	12,200	29	64	400/50/3	12/24/36	3 x 52	10	187
ACCB30E-EC-I	3000	4.5	230/50/1	3,750	16.5	3	3,050	15,250	30	65	400/50/3	12/24/36	3 x 52	10	230
ACCBB10E-EC-I	1000	5.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	5/10/15	3 x 52	10	105
ACCBB15E-EC-I	1500	5.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	7.5/15/22.5	3 x 33	10	126
ACCBB20E-EC-I	2000	5.5	230/50/1	3,000	13.2	3	2,440	12,200	28	63	400/50/3	10/20/30	3 x 43	10	147
ACCBB25E-EC-I	2500	5.5	230/50/1	3,750	16.5	3	3,050	15,250	29	64	400/50/3	12/24/36	3 x 52	10	195
ACCBB30E-EC-I	3000	5.5	230/50/1	4,500	19.8	3	3,660	18,300	31	66	400/50/3	12/24/36	3 x 52	10	250

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Control – Electrical heating

R310E - 3-steps manual control included for electric heating version, connectable to ten air curtains at the same time

- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

Technical features – Water heating series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACCM10W-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
ACCM15W-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
ACCM20W-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
ACCM25W-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
ACCM30W-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
ACCG10W-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
ACCG15W-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
ACCG20W-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
ACCG25W-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
ACCG30W-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185
ACCB10W-I	1000	4	230/50/1	1,005	4.38	5	2,058	2,401	2,916	3,430	3,945	44	57	105
ACCB15W-I	1500	4	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	45	58	125
ACCB20W-I	2000	4	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	47	60	155
ACCB25W-I	2500	4	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	49	62	205
ACCB30W-I	3000	4	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	50	63	245
ACCBB10W-I	1000	5	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	48	58	115
ACCBB15W-I	1500	5	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	49	60	135
ACCBB20W-I	2000	5	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	51	61	175
ACCBB25W-I	2500	5	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	52	62	218
ACCBB30W-I	3000	5	230/50/1	4,020	17.52	5	8,233	9,605	11,663	13,722	15,780	53	64	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C				**Water temperature 7/12°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACCM10W-I	1,640	12.98	41.2	12.4	0.6	7.55	31.5	4.9	0.3	5.32	27.5	9.3	0.5	3.42	20.9	4.7	0.3
ACCM15W-I	2,460	20.54	42.4	18.3	0.9	12.08	32.4	7.3	0.5	8.47	28.1	13.9	0.7	5.88	20.4	7.3	0.5
ACCM20W-I	3,280	28.06	43	20.4	1.2	16.59	32.8	8.3	0.7	11.6	28.3	15.6	1	8.31	20.2	9.3	0.7
ACCM25W-I	4,100	35.55	43.4	24.3	1.6	21.07	33	9.8	0.9	14.73	28.5	18.5	1.3	10.72	20.1	10.2	0.9
ACCM30W-I	4,920	42.82	43.5	17.4	1.9	25.29	33	7	1.1	17.69	28.5	13.3	1.5	12.85	20.1	8.3	1.1
ACCG10W-I	2,460	16.39	37.5	19	0.7	9.49	29.3	7.4	0.4	6.7	26	14.2	0.6	4.5	21.5	7.6	0.4
ACCG15W-I	3,280	24.31	39.7	25	1.1	14.25	30.7	9.8	0.6	10.01	26.9	18.8	0.9	7	21	9.9	0.6
ACCG20W-I	4,920	35.58	39.1	31.4	1.6	20.94	30.5	12.6	0.9	14.69	26.7	24	1.3	10.56	21.1	14.4	0.9
ACCG25W-I	5,740	43.38	40.1	35	1.9	25.6	31	14	1.1	17.94	27.1	26.6	1.6	13.03	20.8	14.5	1.1
ACCG30W-I	6,560	50.77	40.6	23.8	2.2	29.92	31.3	9.5	1.3	20.96	27.3	18.1	1.8	15.15	20.7	11.1	1.3
ACCB10W-I	3,945	21.13	33.7	10.3	0.9	11.97	26.9	3.9	0.5	8.54	24.3	7.6	0.7	5.37	22.5	4.3	0.5
ACCB15W-I	5,260	33.36	36.5	16.6	1.5	19.34	28.8	6.4	0.8	13.67	25.6	12.3	1.2	9.17	21.8	6.1	0.8
ACCB20W-I	7,890	49.67	36.4	21.9	2.2	28.99	28.7	8.6	1.3	20.43	25.6	16.6	1.8	14.73	21.7	10.6	1.3
ACCB25W-I	10,520	66.05	36.4	29	2.9	38.63	28.7	11.3	1.7	27.19	25.6	21.8	2.4	19.63	21.7	12.2	1.7
ACCB30W-I	13,150	81.9	36.2	22.1	3.6	47.76	28.6	8.6	2.1	33.64	25.5	16.6	2.9	24.01	21.7	10.2	2.1
ACCBB10W-I	5,260	24.45	31.6	13.5	1.1	13.83	25.7	5	0.6	9.88	23.5	9.9	0.9	6.39	22.9	5.9	0.6
ACCBB15W-I	7,890	41.25	33.3	24.5	1.8	23.81	26.8	9.3	1	16.87	24.3	18.2	1.5	11.38	22.5	9.1	1
ACCBB20W-I	10,520	57.8	34.1	28.9	2.5	33.65	27.4	11.3	1.5	23.76	24.6	21.8	2.1	17	22.2	13.8	1.5
ACCBB25W-I	13,150	74.25	34.5	36	3.3	43.37	27.6	14	1.9	30.59	24.8	27.1	2.7	21.92	22.1	14.9	1.9
ACCBB30W-I	15,780	90.17	34.7	26.3	4	52.46	27.7	10.2	2.3	37.03	24.9	19.7	3.2	26.3	22.1	12	2.3

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C. **Air inlet temperature: 26°C-55% R.U. The cooling performances were calculated maintaining the same water flow used when heating 60/40°C. Water outlet temperature can be +/-2°C altered.*

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.

- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time

- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Technical features – Water heating series with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m³/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACCM10W-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
ACCM15W-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
ACCM20W-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
ACCM25W-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
ACCM30W-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
ACCG10W-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
ACCG15W-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
ACCG20W-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
ACCG25W-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
ACCG30W-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185
ACCB10W-EC-I	1000	4.5	230/50/1	1,125	4.95	5	900	1,800	2,700	3,600	4,500	24	59	105
ACCB15W-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	125
ACCB20W-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	155
ACCB25W-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	29	64	205
ACCB30W-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	30	65	245
ACCBB10W-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	115
ACCBB15W-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	135
ACCBB20W-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	28	63	175
ACCBB25W-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	29	64	218
ACCBB30W-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,600	7,200	10,800	14,400	18,000	31	66	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m³/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C				**Water temperature 7/12°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)
ACCM10W-EC-I	1,860	13.98	40	14.2	0.6	8.11	30.8	5.5	0.4	5.72	27	10.7	0.5	4.22	20.8	7.6	0.4
ACCM15W-EC-I	2,790	22.12	41.2	21	1	13	31.6	8.3	0.6	9.12	27.6	15.9	0.8	6.74	20.5	9.9	0.6
ACCM20W-EC-I	3,720	30.25	41.8	23.4	1.3	17.85	32	9.4	0.8	12.5	27.8	17.9	1.1	9.24	20.4	11.7	0.8
ACCM25W-EC-I	4,650	38.35	42.1	27.9	1.7	22.68	32.3	11.2	1	15.87	28	21.3	1.4	11.74	20.3	12.2	1
ACCM30W-EC-I	5,580	46.17	42.2	20	2	27.23	32.3	8	1.2	19.07	28	15.2	1.7	13.93	20.3	9.7	1.2
ACCG10W-EC-I	2,790	17.59	36.4	21.7	0.8	10.17	28.7	8.4	0.4	7.19	25.5	16.2	0.6	4.62	21.8	7.6	0.4
ACCG15W-EC-I	3,720	26.13	38.5	28.5	1.1	15.3	30	11.2	0.7	10.76	26.5	21.5	0.9	7.88	21.1	12.9	0.7
ACCG20W-EC-I	5,580	38.23	38	35.8	1.7	22.47	29.8	14.3	1	15.78	26.3	27.3	1.4	11.54	21.3	17.4	1
ACCG25W-EC-I	6,510	46.63	39	39.9	2.1	27.5	30.4	15.9	1.2	19.28	26.7	30.3	1.7	14.1	21.1	17	1.2
ACCG30W-EC-I	7,440	54.64	39.5	27.2	2.4	32.14	30.6	10.8	1.4	22.55	26.9	20.7	2	16.29	21	12.6	1.4
ACCB10W-EC-I	4,500	22.6	32.7	11.7	1	12.8	26.3	4.4	0.6	9.14	23.9	8.6	0.8	6.2	22.6	5.9	0.6
ACCB15W-EC-I	6,000	35.8	35.5	18.9	1.6	20.72	28.1	7.2	0.9	14.64	25.1	14	1.3	10.12	22	7.6	0.9
ACCB20W-EC-I	9,000	53.31	35.3	24.9	2.3	31.05	28.1	9.8	1.4	21.91	25.1	18.8	1.9	15.81	21.9	12.2	1.4
ACCB25W-EC-I	12,000	70.77	35.2	32.9	3.1	41.4	28.1	12.9	1.8	29.17	25.1	24.8	2.5	20.86	21.9	13.5	1.8
ACCB30W-EC-I	15,000	87.74	35.1	25	3.9	51.14	28	9.8	2.2	36.06	25	18.8	3.1	25.34	22	11.1	2.2
ACCBB10W-EC-I	6,000	26.1	30.7	15.2	1.1	14.74	25.2	5.6	0.6	10.55	23.1	11.2	0.9	6.55	23.1	5.9	0.6
ACCBB15W-EC-I	9,000	44.14	32.3	27.7	1.9	25.45	26.3	10.5	1.1	18.04	23.9	20.6	1.6	12.38	22.6	10.9	1.1
ACCBB20W-EC-I	12,000	61.84	33.1	32.7	2.7	35.96	26.8	12.8	1.6	25.41	24.2	24.7	2.2	18.13	22.4	15.5	1.6
ACCBB25W-EC-I	15,000	79.53	33.5	40.8	3.5	46.4	27	15.9	2	32.73	24.4	30.6	2.8	23.22	22.3	16.3	2
ACCBB30W-EC-I	18,000	96.52	33.7	29.8	4.2	56.1	27.1	11.6	2.4	39.65	24.4	22.4	3.4	27.69	22.3	13	2.4

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C. **Air inlet temperature: 26°C-55% R.U. The cooling performances were calculated maintaining the same water flow used when heating 60/40°C. Water outlet temperature can be +/-2°C altered.*

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.

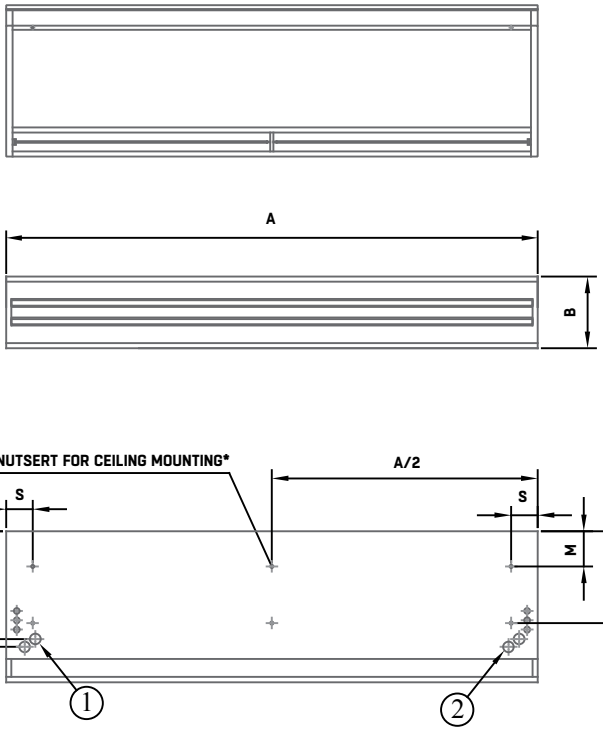
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time

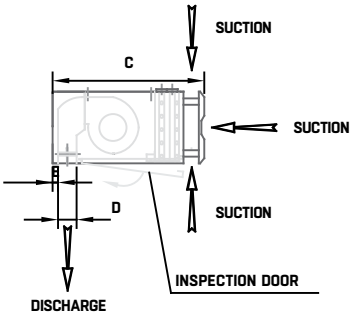
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Dimensions (mm)

Model	A	B	C	D	E	M	N	O	P	S
AC-C M - AC-C G	1000-3000	270	570	70	20	133	347	395	425	100
AC-C B - AC-C BB	1000-2500	420	790	90	20	125	530	600	628	100
AC-C B - AC-C BB	3000	440	790	90	20	125	530	600	628	100



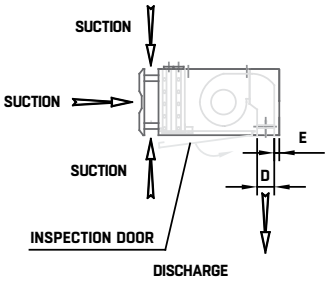
HORIZONTAL INSTALLATION

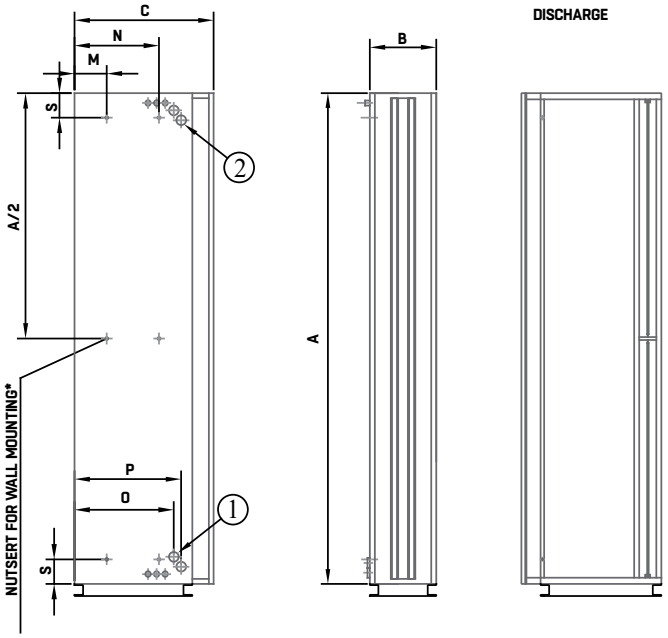


* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB
** Water connections side 1) standard; 2) on request
Water connections sizes: 3/4" M-G – 1" B-BB
*** Cables connections: right side standard; left side on request

VERTICAL INSTALLATION

* Like horizontal installation
** Water connections side 2) standard;
1) on request
Water connections sizes:
3/4" M-G – 1" B-BB
*** Cables connections: 2) standard;
1) on request
Specify while ordering the air curtains installation side.





Horizontal suspended installation

Air curtains » Superior

AC-Direct Flow

AC-Direct Flow are available for horizontal installation above entrance doors. Installation heights from 3 to 5.5 meters. Suitable for all commercial applications: shops, offices, shopping centres and hotels.

AC-Direct Flow range includes ambient versions, and versions with electrical heating or water heating, with lengths of 1,000, 1,500, 2,000, 2,500 and 3,000 mm (M – G – B- BB versions). Also available with high efficiency EC motor.

Casing made of hot zinc plated and powder coated steel panels, white colour RAL 9016 containing powerful centrifugal fans.

AC-Direct Flow range is characterised by reduced depth (270 mm) and by air inlet and outlet on the same axis.

Control systems (included): R510 model with 5 fan speed steps for both ambient and hot water version; R310 respectively controls the fan speed and heating in 3 steps. Plug and Play connections to the controller are easily accessible to ensure a fast and easy installation of the system.
Electrical heaters are equipped with a three levels security system and an automatic correlation between the air flow and heating to avoid dangerous overheating.

Control systems (optional): R515 with 5 fan speed steps for both ambient and hot water version, for door contact and room thermostat connection.

Motor protection class:
IP 20 for B-BB models and IP44 for M-G models.

Electrical supply:
single phase 230V/50Hz (ambient version and with water heating) or three phases 400V/50 Hz (electrical heating versions).

On request:
- AISI 304 stainless steel version
- Other RAL colours
- Version for vertical mounting with horizontal air flow, floor bracket needed
- Water heating coil with higher heating capacity (see page 33 for technical data)

VERSION

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor

INSTALLATION

Horizontal installation
Vertical installation
Up to 5.5 meters
Plug & Play
Pre-wired controller

AIR FLOW

Up to 18,600 m³/h

ACCESSORIES

- Room thermostat, wall bracket. Ceiling mounting kit with anti-vibration mounts
- R515 control panel for water heating models: for door contact and room thermostat functioning
- 3-way ON/OFF valve
- Mechanical or magnetic door contact

Technical features – Ambient version with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m³/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACDFM10A-I	1000	3	230/50/1	460	2.1	5	877	1023	1,242	1,461	1,680	38	53	54
ACDFM15A-I	1500	3	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	39	54	83
ACDFM20A-I	2000	3	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	41	55	109
ACDFM25A-I	2500	3	230/50/1	1,150	5.25	5	2,191	2,557	3,104	3,652	4,200	42	56	140
ACDFM30A-I	3000	3	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	57	163
ACDFG10A-I	1000	3.5	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	41	54	57
ACDFG15A-I	1500	3.5	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	42	55	84
ACDFG20A-I	2000	3.5	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	56	113
ACDFG25A-I	2500	3.5	230/50/1	1,610	7.35	5	3,068	3,579	4,346	5,113	5,880	44	57	146
ACDFG30A-I	3000	3.5	230/50/1	1,840	8.4	5	3,506	4,090	4,967	5,843	6,720	45	58	170
ACDFB10A-I	1000	4	230/50/1	1,005	4.38	5	2,137	2,493	3,027	3,561	4,095	44	57	90
ACDFB15A-I	1500	4	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	45	58	103
ACDFB20A-I	2000	4	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	47	60	133
ACDFB25A-I	2500	4	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	49	62	180
ACDFB30A-I	3000	4	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	50	63	224
ACDFBB10A-I	1000	5	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	48	58	100
ACDFBB15A-I	1500	5	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	49	60	119
ACDFBB20A-I	2000	5	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	51	61	140
ACDFBB25A-I	2500	5	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	52	62	186
ACDFBB30A-I	3000	5	230/50/1	4,020	17.52	5	8,546	9,970	12,107	14,243	16,380	53	64	243

Technical features – Ambient version with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m³/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACDFM10A-EC-I	1000	3.3	230/50/1	334	2.6	5	380	760	1,140	1,520	1,900	20	55	54
ACDFM15A-EC-I	1500	3.3	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	83
ACDFM20A-EC-I	2000	3.3	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	109
ACDFM25A-EC-I	2500	3.3	230/50/1	835	6.5	5	950	1,900	2,850	3,800	4,750	23	58	140
ACDFM30A-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	24	59	163
ACDFG10A-EC-I	1000	3.8	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	57
ACDFG15A-EC-I	1500	3.8	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	84
ACDFG20A-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	23	58	113
ACDFG25A-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,330	2,660	3,990	5,320	6,650	24	59	146
ACDFG30A-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,520	3,040	4,560	6,080	7,600	25	60	170
ACDFB10A-EC-I	1000	4.5	230/50/1	1,125	4.95	5	930	1,860	2,790	3,720	4,650	24	59	90
ACDFB15A-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	103
ACDFB20A-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	133
ACDFB25A-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	29	64	180
ACDFB30A-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	30	65	224
ACDFBB10A-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	100
ACDFBB15A-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	119
ACDFBB20A-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	28	63	140
ACDFBB25A-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	29	64	186
ACDFBB30A-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,720	7,440	11,160	14,880	18,600	31	66	243

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Technical features – Electrical series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACDFM10E-I	1000	3	230/50/1	460	2.1	3	866	1,660	38	53	400/50/3	3/6/9	3 x 13	10	58
ACDFM15E-I	1500	3	230/50/1	690	3.15	3	1,299	2,490	39	54	400/50/3	4/8/12	3 x 17	10	88
ACDFM20E-I	2000	3	230/50/1	920	4.2	3	1,732	3,320	41	55	400/50/3	6/12/18	3 x 26	10	116
ACDFM25E-I	2500	3	230/50/1	1,150	5.25	3	2,165	4,150	42	56	400/50/3	6/12/18	3 x 26	10	148
ACDFM30E-I	3000	3	230/50/1	1,380	6.3	3	2,598	4,980	43	57	400/50/3	8/16/24	3 x 35	10	170
ACDFG10E-I	1000	3.5	230/50/1	690	3.15	3	1,299	2,490	41	54	400/50/3	5/10/15	3 x 22	10	62
ACDFG15E-I	1500	3.5	230/50/1	920	4.2	3	1,732	3,320	42	55	400/50/3	7.5/15/22.5	3 x 33	10	90
ACDFG20E-I	2000	3.5	230/50/1	1,380	6.3	3	2,598	4,980	43	56	400/50/3	10/20/30	3 x 43	10	120
ACDFG25E-I	2500	3.5	230/50/1	1,610	7.35	3	3,031	5,810	44	57	400/50/3	12/24/36	3 x 52	10	152
ACDFG30E-I	3000	3.5	230/50/1	1,840	8.4	3	3,464	6,640	45	58	400/50/3	12/24/36	3 x 52	10	175
ACDFB10E-I	1000	4	230/50/1	1,005	4.38	3	2,097	4,020	44	57	400/50/3	5/10/15	3 x 22	10	95
ACDFB15E-I	1500	4	230/50/1	1,340	5.84	3	2,797	5,360	45	58	400/50/3	7.5/15/22.5	3 x 33	10	111
ACDFB20E-I	2000	4	230/50/1	2,010	8.76	3	4,195	8,040	47	60	400/50/3	10/20/30	3 x 43	10	138
ACDFB25E-I	2500	4	230/50/1	2,680	11.68	3	5,593	10,720	49	62	400/50/3	12/24/36	3 x 52	10	187
ACDFB30E-I	3000	4	230/50/1	3,350	14.6	3	6,991	13,400	50	63	400/50/3	12/24/36	3 x 52	10	230
ACDFBB10E-I	1000	5	230/50/1	1,340	5.84	3	2,797	5,360	48	58	400/50/3	5/10/15	3 x 52	10	105
ACDFBB15E-I	1500	5	230/50/1	2,010	8.76	3	4,195	8,040	49	60	400/50/3	7.5/15/22.5	3 x 33	10	126
ACDFBB20E-I	2000	5	230/50/1	2,680	11.68	3	5,593	10,720	51	61	400/50/3	10/20/30	3 x 43	10	147
ACDFBB25E-I	2500	5	230/50/1	3,350	14.6	3	6,991	13,400	52	62	400/50/3	12/24/36	3 x 52	10	195
ACDFBB30E-I	3000	5	230/50/1	4,020	17.52	3	8,390	16,080	53	64	400/50/3	12/24/36	3 x 52	10	250

Technical features – Electrical series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACDFM10E-EC-I	1000	3.3	230/50/1	334	2.6	3	376	1,880	20	55	400/50/3	3/6/9	3 x 13	10	58
ACDFM15E-EC-I	1500	3.3	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	4/8/12	3 x 17	10	88
ACDFM20E-EC-I	2000	3.3	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	6/12/18	3 x 26	10	116
ACDFM25E-EC-I	2500	3.3	230/50/1	835	6.5	3	940	4,700	23	58	400/50/3	6/12/18	3 x 26	10	148
ACDFM30E-EC-I	3000	3.3	230/50/1	1,002	7.8	3	1,128	5,640	24	59	400/50/3	8/16/24	3 x 35	10	170
ACDFG10E-EC-I	1000	3.8	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	5/10/15	3 x 22	10	62
ACDFG15E-EC-I	1500	3.8	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	7.5/15/22.5	3 x 33	10	90
ACDFG20E-EC-I	2000	3.8	230/50/1	1,002	7.8	3	1,128	5,640	23	58	400/50/3	10/20/30	3 x 43	10	120
ACDFG25E-EC-I	2500	3.8	230/50/1	1,169	9.1	3	1,316	6,580	24	59	400/50/3	12/24/36	3 x 52	10	152
ACDFG30E-EC-I	3000	3.8	230/50/1	1,336	10.4	3	1,504	7,520	25	60	400/50/3	12/24/36	3 x 52	10	175
ACDFB10E-EC-I	1000	4.5	230/50/1	1,125	4.95	3	915	4,575	24	59	400/50/3	5/10/15	3 x 22	10	95
ACDFB15E-EC-I	1500	4.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	7.5/15/22.5	3 x 33	10	111
ACDFB20E-EC-I	2000	4.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	10/20/30	3 x 43	10	138
ACDFB25E-EC-I	2500	4.5	230/50/1	3,000	13.2	3	2,440	12,200	29	64	400/50/3	12/24/36	3 x 52	10	187
ACDFB30E-EC-I	3000	4.5	230/50/1	3,750	16.5	3	3,050	15,250	30	65	400/50/3	12/24/36	3 x 52	10	230
ACDFBB10E-EC-I	1000	5.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	5/10/15	3 x 52	10	105
ACDFBB15E-EC-I	1500	5.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	7.5/15/22.5	3 x 33	10	126
ACDFBB20E-EC-I	2000	5.5	230/50/1	3,000	13.2	3	2,440	12,200	28	63	400/50/3	10/20/30	3 x 43	10	147
ACDFBB25E-EC-I	2500	5.5	230/50/1	3,750	16.5	3	3,050	15,250	29	64	400/50/3	12/24/36	3 x 52	10	195
ACDFBB30E-EC-I	3000	5.5	230/50/1	4,500	19.8	3	3,660	18,300	31	66	400/50/3	12/24/36	3 x 52	10	250

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Control – Electrical heating

R310E - 3-steps manual control included for electric heating version, connectable to ten air curtains at the same time

- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

Technical features – Water heating series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACDFM10W-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
ACDFM15W-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
ACDFM20W-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
ACDFM25W-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
ACDFM30W-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
ACDFG10W-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
ACDFG15W-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
ACDFG20W-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
ACDFG25W-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
ACDFG30W-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185
ACDFB10W-I	1000	4	230/50/1	1,005	4.38	5	2,058	2,401	2,916	3,430	3,945	44	57	105
ACDFB15W-I	1500	4	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	45	58	125
ACDFB20W-I	2000	4	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	47	60	155
ACDFB25W-I	2500	4	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	49	62	205
ACDFB30W-I	3000	4	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	50	63	245
ACDFBB10W-I	1000	5	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	48	58	115
ACDFBB15W-I	1500	5	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	49	60	135
ACDFBB20W-I	2000	5	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	51	61	175
ACDFBB25W-I	2500	5	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	52	62	218
ACDFBB30W-I	3000	5	230/50/1	4,020	17.52	5	8,233	9,605	11,663	13,722	15,780	53	64	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACDFM10W-I	1,640	12.98	41.2	12.4	0.6	7.55	31.5	4.9	0.3	5.32	27.5	9.3	0.5
ACDFM15W-I	2,460	20.54	42.4	18.3	0.9	12.08	32.4	7.3	0.5	8.47	28.1	13.9	0.7
ACDFM20W-I	3,280	28.06	43	20.4	1.2	16.59	32.8	8.3	0.7	11.6	28.3	15.6	1
ACDFM25W-I	4,100	35.55	43.4	24.3	1.6	21.07	33	9.8	0.9	14.73	28.5	18.5	1.3
ACDFM30W-I	4,920	42.82	43.5	17.4	1.9	25.29	33	7	1.1	17.69	28.5	13.3	1.5
ACDFG10W-I	2,460	16.39	37.5	19	0.7	9.49	29.3	7.4	0.4	6.7	26	14.2	0.6
ACDFG15W-I	3,280	24.31	39.7	25	1.1	14.25	30.7	9.8	0.6	10.01	26.9	18.8	0.9
ACDFG20W-I	4,920	35.58	39.1	31.4	1.6	20.94	30.5	12.6	0.9	14.69	26.7	24	1.3
ACDFG25W-I	5,740	43.38	40.1	35	1.9	25.6	31	14	1.1	17.94	27.1	26.6	1.6
ACDFG30W-I	6,560	50.77	40.6	23.8	2.2	29.92	31.3	9.5	1.3	20.96	27.3	18.1	1.8
ACDFB10W-I	3,945	21.13	33.7	10.3	0.9	11.97	26.9	3.9	0.5	8.54	24.3	7.6	0.7
ACDFB15W-I	5,260	33.36	36.5	16.6	1.5	19.34	28.8	6.4	0.8	13.67	25.6	12.3	1.2
ACDFB20W-I	7,890	49.67	36.4	21.9	2.2	28.99	28.7	8.6	1.3	20.43	25.6	16.6	1.8
ACDFB25W-I	10,520	66.05	36.4	29	2.9	38.63	28.7	11.3	1.7	27.19	25.6	21.8	2.4
ACDFB30W-I	13,150	81.9	36.2	22.1	3.6	47.76	28.6	8.6	2.1	33.64	25.5	16.6	2.9
ACDFBB10W-I	5,260	24.45	31.6	13.5	1.1	13.83	25.7	5	0.6	9.88	23.5	9.9	0.9
ACDFBB15W-I	7,890	41.25	33.3	24.5	1.8	23.81	26.8	9.3	1	16.87	24.3	18.2	1.5
ACDFBB20W-I	10,520	57.8	34.1	28.9	2.5	33.65	27.4	11.3	1.5	23.76	24.6	21.8	2.1
ACDFBB25W-I	13,150	74.25	34.5	36	3.3	43.37	27.6	14	1.9	30.59	24.8	27.1	2.7
ACDFBB30W-I	15,780	90.17	34.7	26.3	4	52.46	27.7	10.2	2.3	37.03	24.9	19.7	3.2

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Technical features – Water heating series with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACDFM10W-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
ACDFM15W-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
ACDFM20W-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
ACDFM25W-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
ACDFM30W-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
ACDFG10W-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
ACDFG15W-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
ACDFG20W-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
ACDFG25W-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
ACDFG30W-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185
ACDFB10W-EC-I	1000	4.5	230/50/1	1,125	4.95	5	900	1,800	2,700	3,600	4,500	24	59	105
ACDFB15W-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	125
ACDFB20W-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	155
ACDFB25W-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	29	64	205
ACDFB30W-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	30	65	245
ACDFBB10W-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	115
ACDFBB15W-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	135
ACDFBB20W-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	28	63	175
ACDFBB25W-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	29	64	218
ACDFBB30W-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,600	7,200	10,800	14,400	18,000	31	66	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACDFM10W-EC-I	1,860	13.98	40	14.2	0.6	8.11	30.8	5.5	0.4	5.72	27	10.7	0.5
ACDFM15W-EC-I	2,790	22.12	41.2	21	1	13	31.6	8.3	0.6	9.12	27.6	15.9	0.8
ACDFM20W-EC-I	3,720	30.25	41.8	23.4	1.3	17.85	32	9.4	0.8	12.5	27.8	17.9	1.1
ACDFM25W-EC-I	4,650	38.35	42.1	27.9	1.7	22.68	32.3	11.2	1	15.87	28	21.3	1.4
ACDFM30W-EC-I	5,580	46.17	42.2	20	2	27.23	32.3	8	1.2	19.07	28	15.2	1.7
ACDFG10W-EC-I	2,790	17.59	36.4	21.7	0.8	10.17	28.7	8.4	0.4	7.19	25.5	16.2	0.6
ACDFG15W-EC-I	3,720	26.13	38.5	28.5	1.1	15.3	30	11.2	0.7	10.76	26.5	21.5	0.9
ACDFG20W-EC-I	5,580	38.23	38	35.8	1.7	22.47	29.8	14.3	1	15.78	26.3	27.3	1.4
ACDFG25W-EC-I	6,510	46.63	39	39.9	2.1	27.5	30.4	15.9	1.2	19.28	26.7	30.3	1.7
ACDFG30W-EC-I	7,440	54.64	39.5	27.2	2.4	32.14	30.6	10.8	1.4	22.55	26.9	20.7	2
ACDFB10W-EC-I	4,500	22.6	32.7	11.7	1	12.8	26.3	4.4	0.6	9.14	23.9	8.6	0.8
ACDFB15W-EC-I	6,000	35.8	35.5	18.9	1.6	20.72	28.1	7.2	0.9	14.64	25.1	14	1.3
ACDFB20W-EC-I	9,000	53.31	35.3	24.9	2.3	31.05	28.1	9.8	1.4	21.91	25.1	18.8	1.9
ACDFB25W-EC-I	12,000	70.77	35.2	32.9	3.1	41.4	28.1	12.9	1.8	29.17	25.1	24.8	2.5
ACDFB30W-EC-I	15,000	87.74	35.1	25	3.9	51.14	28	9.8	2.2	36.06	25	18.8	3.1
ACDFBB10W-EC-I	6,000	26.1	30.7	15.2	1.1	14.74	25.2	5.6	0.6	10.55	23.1	11.2	0.9
ACDFBB15W-EC-I	9,000	44.14	32.3	27.7	1.9	25.45	26.3	10.5	1.1	18.04	23.9	20.6	1.6
ACDFBB20W-EC-I	12,000	61.84	33.1	32.7	2.7	35.96	26.8	12.8	1.6	25.41	24.2	24.7	2.2
ACDFBB25W-EC-I	15,000	79.53	33.5	40.8	3.5	46.4	27	15.9	2	32.73	24.4	30.6	2.8
ACDFBB30W-EC-I	18,000	96.52	33.7	29.8	4.2	56.1	27.1	11.6	2.4	39.65	24.4	22.4	3.4

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

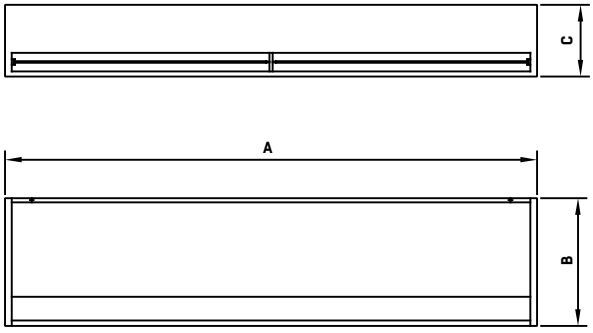
Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

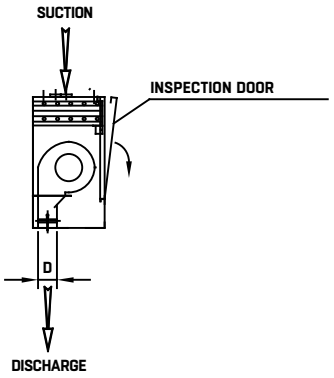
R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

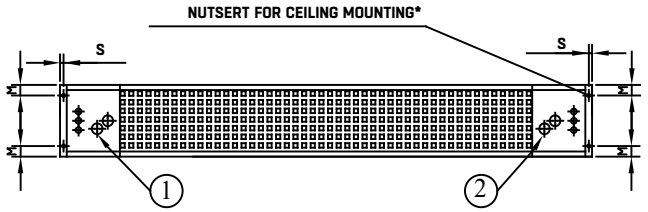
Dimensions (mm) - horizontal version

Model	A	B	C	D	E	F	M	S
AC-DF M - AC-DF G	1000-3000	480	270	70	20	520	40	125
AC-DF B - AC-DF BB	1000-2500	700	420	90	20	740	40	125
AC-DF B - AC-DF BB	3000	700	440	90	20	740	40	125

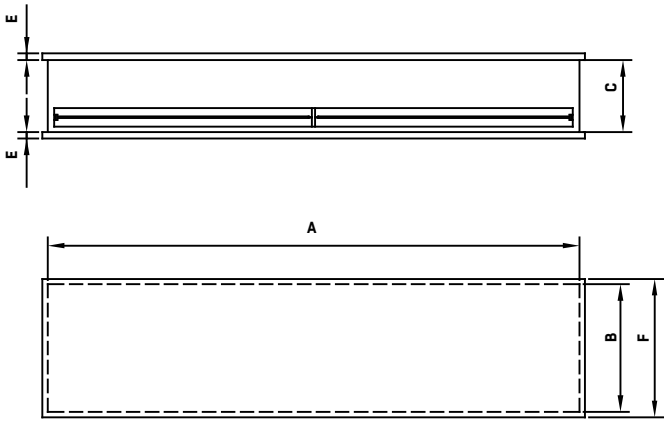


VERSION WITHOUT PANEL

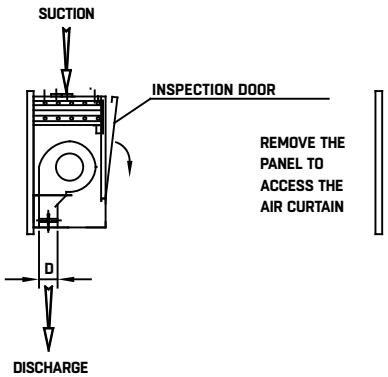


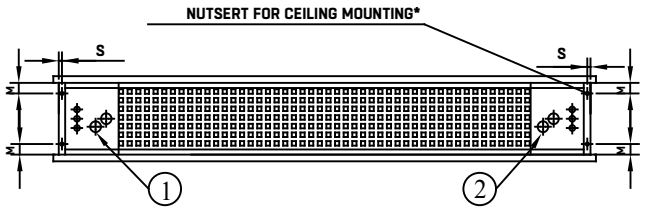


* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB
** Water connections side 1) standard; 2) on request
Water connections sizes: 3/4" M-G – 1" B-BB
*** Cables connections: right side standard; left side on request



PREMIUM VERSION WITH PANEL





* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB
** Water connections side 1) standard; 2) on request
Water connections sizes: 3/4" M-G – 1" B-BB
*** Cables connections: right side standard; left side on request

Dimensions (mm) - vertical version

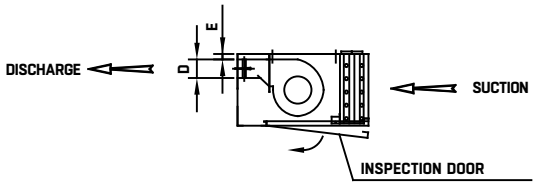
Model	A	B	C	D	E	M	N	O	P	S
AC-DFM - AC-DFG	1000-3000	480	270	70	20	133	347	395	425	100
AC-DFB - AC-DFBB	1000-2500	700	420	90	20	125	530	600	628	100
AC-DFB - AC-DFBB	3000	700	440	90	20	125	530	600	628	100

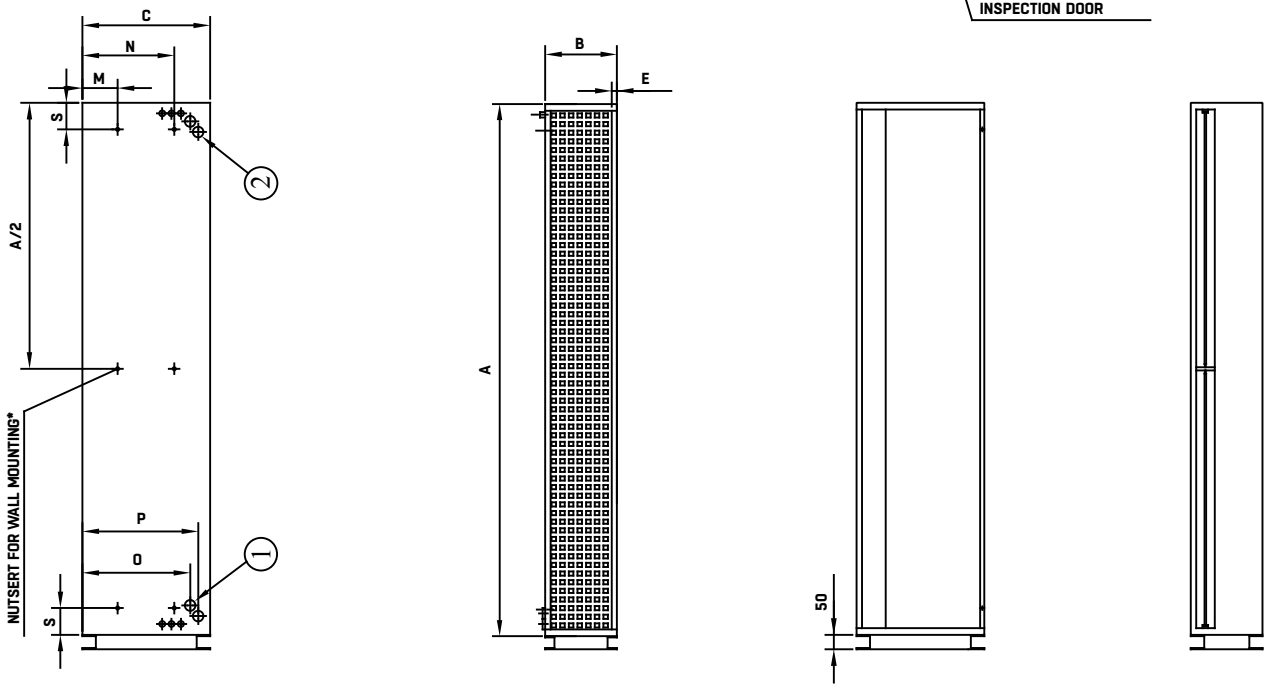
* 4xM8 length 1000-1500 mm M-G-B-BB
6xM8 length 2000 M-G-B-BB
6xM8 length 2500-3000 mm M-G
6xM10 length 2500 mm B-BB
8xM10 length 3000 mm B-BB

** Water connections side 2) standard; 1) on request
Water connections sizes: 3/4" M-G – 1" B-BB

*** Cables connections: 2) standard; 1) on request

Specify while ordering the air curtains installation side.





Technical features - Water heating version for low temperature climates

Technical features – Water heating with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
...M10W.LW-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
...M15W.LW-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
...M20W.LW-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
...M25W.LW-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
...M30W.LW-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
...G10W.LW-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
...G15W.LW-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
...G20W.LW-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
...G25W.LW-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
...G30W.LW-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	Water temperature 80/60°C Air inlet temperature: 18°C				Water temperature 70/50°C Air inlet temperature: 18°C				Water temperature 60/40°C Air inlet temperature: 18°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
...M10W.LW-I	1,640	18.91	51.7	24.7	0.8	15.05	44.8	16.7	0.7	11.11	37.8	9.8	0.5
...M15W.LW-I	2,460	29.66	53.3	18.5	1.3	23.62	46.1	12.5	1	17.47	38.8	7.4	0.8
...M20W.LW-I	3,280	40.34	54	15.9	1.8	32.15	46.7	10.7	1.4	23.78	39.2	6.3	1
...M25W.LW-I	4,100	51.63	54.8	29.3	2.3	41.32	47.5	20	1.8	30.83	40	12	1.3
...M30W.LW-I	4,920	62.59	55.2	34.9	2.8	50.15	47.8	23.8	2.2	37.48	40.3	14.4	1.6
...G10W.LW-I	2,460	23.46	45.9	36.7	1	18.6	40.1	24.5	0.8	13.66	34.2	14.3	0.6
...G15W.LW-I	3,280	34.78	49	24.7	1.5	27.63	42.6	16.6	1.2	20.35	36.1	9.7	0.9
...G20W.LW-I	4,920	50.49	48	24	2.2	40.08	41.8	16.1	1.8	29.48	35.5	9.4	1.3
...G25W.LW-I	5,740	62.42	49.8	41.4	2.7	49.82	43.4	28.1	2.2	36.97	36.8	16.7	1.6
...G30W.LW-I	6,560	73.77	50.9	47.2	3.2	58.94	44.3	32	2.6	43.85	37.6	19.1	1.9

Model	Max air flow (m^3/h)	Water temperature 45/35°C Air inlet temperature: 18°C				Water temperature 60/30°C Air inlet temperature: 15°C				Water temperature 50/30°C Air inlet temperature: 15°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
...M10W.LW-I	1,640	7.76	31.8	18.6	0.7	9.31	31.6	3.5	0.3	8.19	29.6	5.8	0.4
...M15W.LW-I	2,460	12.18	32.5	13.9	1.1	14.65	32.4	2.6	0.4	12.87	30.3	4.3	0.6
...M20W.LW-I	3,280	16.56	32.8	12	1.4	19.94	32.8	2.2	0.6	17.51	30.6	3.7	0.8
...M25W.LW-I	4,100	21.36	33.2	22.4	1.9	26.61	34	4.5	0.8	23.09	31.5	7.3	1
...M30W.LW-I	4,920	25.94	33.4	26.7	2.3	32.57	34.4	5.4	0.9	28.17	31.7	8.8	1.2
...G10W.LW-I	2,460	9.6	29.4	27.4	0.8	11.36	28.5	5	0.3	10.03	26.9	8.4	0.4
...G15W.LW-I	3,280	14.26	30.7	18.5	1.2	16.94	30.1	3.4	0.5	14.94	28.3	5.7	0.6
...G20W.LW-I	4,920	20.66	30.3	17.9	1.8	24.5	29.6	3.2	0.7	21.63	27.9	5.5	0.9
...G25W.LW-I	5,740	25.76	31.1	31.5	2.2	31.6	31.1	6.1	0.9	27.57	29	10.1	1.2
...G30W.LW-I	6,560	30.5	31.6	35.9	2.7	37.69	31.9	7.1	1.1	32.83	29.6	11.6	1.4

All data are referred to maximum air flow. ΔP: pressure drop water side.

Technical features - Water heating version for low temperature climates

Technical features – Water heating with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
...M10W.LW-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
...M15W.LW-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
...M20W.LW-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
...M25W.LW-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
...M30W.LW-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
...G10W.LW-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
...G15W.LW-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
...G20W.LW-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
...G25W.LW-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
...G30W.LW-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	Water temperature 80/60°C Air inlet temperature: 18°C				Water temperature 70/50°C Air inlet temperature: 18°C				Water temperature 60/40°C Air inlet temperature: 18°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
...M10W.LW-EC-I	1,860	20.26	49.9	28.5	0.9	16.11	43.3	19.2	0.7	11.88	36.7	11.3	0.5
...M15W.LW-EC-I	2,790	31.84	51.4	21.4	1.4	25.34	44.6	14.4	1.1	18.7	37.6	8.5	0.8
...M20W.LW-EC-I	3,720	43.35	52.1	18.4	1.9	34.5	45.1	12.4	1.5	25.47	38	7.3	1.1
...M25W.LW-EC-I	4,650	55.52	52.6	34	2.4	44.39	45.9	23.1	1.9	33.05	38.8	13.9	1.4
...M30W.LW-EC-I	5,580	67.34	53.3	40.6	3	53.89	46.2	27.6	2.4	40.21	39.1	16.6	1.8
...G10W.LW-EC-I	2,790	24.95	44.2	41.7	1.1	19.76	38.7	27.9	0.9	14.51	33.2	16.3	0.6
...G15W.LW-EC-I	3,720	37.15	47.2	28.4	1.6	29.49	41.2	19	1.3	21.68	35	11.1	0.9
...G20W.LW-EC-I	5,580	53.85	46.2	27.4	2.4	42.7	40.4	18.3	1.9	31.37	34.4	10.7	1.4
...G25W.LW-EC-I	6,510	66.7	48	47.5	2.9	53.16	41.9	32.1	2.3	39.42	35.7	19.1	1.7
...G30W.LW-EC-I	7,440	80.59	48.4	56.4	3.5	64.3	42.3	38.1	2.8	47.48	36.1	22.7	2.1

Model	Max air flow (m^3/h)	Water temperature 45/35°C Air inlet temperature: 18°C				Water temperature 60/30°C Air inlet temperature: 15°C				Water temperature 50/30°C Air inlet temperature: 15°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
...M10W.LW-EC-I	1,860	8.31	31.1	21.4	0.7	9.93	30.6	3.9	0.3	8.74	28.8	6.5	0.4
...M15W.LW-EC-I	2,790	13.06	31.7	16.1	1.1	15.64	31.4	2.9	0.5	13.76	29.4	4.9	0.6
...M20W.LW-EC-I	3,720	17.79	32	13.9	1.5	21.31	31.8	2.5	0.6	18.74	29.7	4.2	0.8
...M25W.LW-EC-I	4,650	22.95	32.4	26	2	28.43	32.9	5	0.8	24.71	30.5	8.3	1.1
...M30W.LW-EC-I	5,580	27.88	32.6	31	2.4	34.78	33.2	6.1	1	30.15	30.8	9.9	1.3
...G10W.LW-EC-I	2,790	10.2	28.7	31.1	0.9	12.02	27.6	5.5	0.3	10.64	26.2	9.3	0.5
...G15W.LW-EC-I	3,720	15.21	30	21.2	1.3	18.02	29.2	3.8	0.5	15.91	27.5	6.4	0.7
...G20W.LW-EC-I	5,580	22.03	29.6	20.5	1.9	26.01	28.6	3.6	0.8	22.98	27	6.1	1
...G25W.LW-EC-I	6,510	27.51	30.4	36.1	2.4	33.6	30.1	6.8	1	29.35	28.2	11.3	1.3
...G30W.LW-EC-I	7,440	33.28	30.6	42.8	2.9	40.94	30.5	8.2	1.2	35.66	28.5	13.5	1.5

All data are referred to maximum air flow. ΔP: pressure drop water side.

AC-Comfort Flat

AC-Comfort Flat air curtains for recessed installation. Installation heights from 3 to 3,8 meters. Suitable for all commercial applications: shops, offices, shopping centres and hotels.

AC-Comfort Flat range includes ambient versions, and versions with electrical heating or water heating, with lengths of 1,000, 1,500, 2,000, 2,500 and 3,000 mm (M - G versions). Also available with high efficiency EC motor. Easy to access for maintenance.

Casing made of hot zinc plated and powder coated steel panels, white colour RAL 9016 containing powerful centrifugal fans.

The AC-Comfort Flat air curtains unique compactness (height 220 mm) allows to install them also in reduced sizes false ceilings.

Control systems (included): R510 model with 5 fan speed steps for both ambient and hot water version; R310 respectively controls the fan speed and heating in 3 steps. Plug and Play connections to the controller are easily accessible to ensure a fast and easy installation of the system.
Electrical heaters are equipped with a three levels security system and an automatic correlation between the air flow and heating to avoid dangerous overheating.

Control systems (optional): R515 with 5 fan speed steps for both ambient and hot water version, for door contact and room thermostat connection.

Motor protection class:
IP44.

Electrical supply:
single phase 230V/50Hz (ambient version and with water heating) or three phases 400V/50 Hz (electrical heating versions).

On request:
- Water heating coil with higher heating capacity (see page 33 for technical data)

VERSIONS

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor

INSTALLATION

Horizontal installation
Up to 3.8 meters
Plug & Play
Pre-wired controller

AIR FLOW

Up to 7,600 m³/h

ACCESSORIES

- Room thermostat, wall bracket.
- Ceiling mounting kit with anti-vibration mounts
- R515 control panel for water heating models: for door contact and room thermostat functioning
- 3-way ON/OFF valve
- Mechanical or magnetic door contact

Technical features – Ambient version with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m³/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACFM10A-I	1000	3	230/50/1	460	2.1	5	877	1023	1,242	1,461	1,680	38	53	54
ACFM15A-I	1500	3	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	39	54	83
ACFM20A-I	2000	3	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	41	55	109
ACFM25A-I	2500	3	230/50/1	1,150	5.25	5	2,191	2,557	3,104	3,652	4,200	42	56	140
ACFM30A-I	3000	3	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	57	163
ACFG10A-I	1000	3.5	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	41	54	57
ACFG15A-I	1500	3.5	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	42	55	84
ACFG20A-I	2000	3.5	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	56	113
ACFG25A-I	2500	3.5	230/50/1	1,610	7.35	5	3,068	3,579	4,346	5,113	5,880	44	57	146
ACFG30A-I	3000	3.5	230/50/1	1,840	8.4	5	3,506	4,090	4,967	5,843	6,720	45	58	170

Technical features – Ambient version with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speeds	Air flow (m³/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min	max	
ACFM10A-EC-I	1000	3.3	230/50/1	334	2.6	5	380	760	1,140	1,520	1,900	20	55	54
ACFM15A-EC-I	1500	3.3	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	83
ACFM20A-EC-I	2000	3.3	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	109
ACFM25A-EC-I	2500	3.3	230/50/1	835	6.5	5	950	1,900	2,850	3,800	4,750	23	58	140
ACFM30A-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	24	59	163
ACFG10A-EC-I	1000	3.8	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	57
ACFG15A-EC-I	1500	3.8	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	84
ACFG20A-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	23	58	113
ACFG25A-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,330	2,660	3,990	5,320	6,650	24	59	146
ACFG30A-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,520	3,040	4,560	6,080	7,600	25	60	170

Technical features – Electrical series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m³/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/ph)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACFM10E-I	1000	3	230/50/1	460	2.1	3	866	1,660	38	53	400/50/3	3/6/9	3 x 13	10	58
ACFM15E-I	1500	3	230/50/1	690	3.15	3	1,299	2,490	39	54	400/50/3	4/8/12	3 x 17	10	88
ACFM20E-I	2000	3	230/50/1	920	4.2	3	1,732	3,320	41	55	400/50/3	6/12/18	3 x 26	10	116
ACFM25E-I	2500	3	230/50/1	1,150	5.25	3	2,165	4,150	42	56	400/50/3	6/12/18	3 x 26	10	148
ACFM30E-I	3000	3	230/50/1	1,380	6.3	3	2,598	4,980	43	57	400/50/3	8/16/24	3 x 35	10	170
ACFG10E-I	1000	3.5	230/50/1	690	3.15	3	1,299	2,490	41	54	400/50/3	5/10/15	3 x 22	10	62
ACFG15E-I	1500	3.5	230/50/1	920	4.2	3	1,732	3,320	42	55	400/50/3	7.5/15/22.5	3 x 33	10	90
ACFG20E-I	2000	3.5	230/50/1	1,380	6.3	3	2,598	4,980	43	56	400/50/3	10/20/30	3 x 43	10	120
ACFG25E-I	2500	3.5	230/50/1	1,610	7.35	3	3,031	5,810	44	57	400/50/3	12/24/36	3 x 52	10	152
ACFG30E-I	3000	3.5	230/50/1	1,840	8.4	3	3,464	6,640	45	58	400/50/3	12/24/36	3 x 52	10	175

Technical features – Electrical series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m³/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/ph)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACFM10E-EC-I	1000	3.3	230/50/1	334	2.6	3	376	1,880	20	55	400/50/3	3/6/9	3 x 13	10	58
ACFM15E-EC-I	1500	3.3	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	4/8/12	3 x 17	10	88
ACFM20E-EC-I	2000	3.3	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	6/12/18	3 x 26	10	116
ACFM25E-EC-I	2500	3.3	230/50/1	835	6.5	3	940	4,700	23	58	400/50/3	6/12/18	3 x 26	10	148
ACFM30E-EC-I	3000	3.3	230/50/1	1,002	7.8	3	1,128	5,640	24	59	400/50/3	8/16/24	3 x 35	10	170
ACFG10E-EC-I	1000	3.8	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	5/10/15	3 x 22	10	62
ACFG15E-EC-I	1500	3.8	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	7.5/15/22.5	3 x 33	10	90
ACFG20E-EC-I	2000	3.8	230/50/1	1,002	7.8	3	1,128	5,640	23	58	400/50/3	10/20/30	3 x 43	10	120
ACFG25E-EC-I	2500	3.8	230/50/1	1,169	9.1	3	1,316	6,580	24	59	400/50/3	12/24/36	3 x 52	10	152
ACFG30E-EC-I	3000	3.8	230/50/1	1,336	10.4	3	1,504	7,520	25	60	400/50/3	12/24/36	3 x 52	10	175

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Technical features – Water heating series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACFM10W-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
ACFM15W-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
ACFM20W-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
ACFM25W-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
ACFM30W-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
ACFG10W-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
ACFG15W-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
ACFG20W-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
ACFG25W-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
ACFG30W-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACFM10W-I	1,640	12.98	41.2	12.4	0.6	7.55	31.5	4.9	0.3	5.32	27.5	9.3	0.5
ACFM15W-I	2,460	20.54	42.4	18.3	0.9	12.08	32.4	7.3	0.5	8.47	28.1	13.9	0.7
ACFM20W-I	3,280	28.06	43	20.4	1.2	16.59	32.8	8.3	0.7	11.6	28.3	15.6	1
ACFM25W-I	4,100	35.55	43.4	24.3	1.6	21.07	33	9.8	0.9	14.73	28.5	18.5	1.3
ACFM30W-I	4,920	42.82	43.5	17.4	1.9	25.29	33	7	1.1	17.69	28.5	13.3	1.5
ACFG10W-I	2,460	16.39	37.5	19	0.7	9.49	29.3	7.4	0.4	6.7	26	14.2	0.6
ACFG15W-I	3,280	24.31	39.7	25	1.1	14.25	30.7	9.8	0.6	10.01	26.9	18.8	0.9
ACFG20W-I	4,920	35.58	39.1	31.4	1.6	20.94	30.5	12.6	0.9	14.69	26.7	24	1.3
ACFG25W-I	5,740	43.38	40.1	35	1.9	25.6	31	14	1.1	17.94	27.1	26.6	1.6
ACFG30W-I	6,560	50.77	40.6	23.8	2.2	29.92	31.3	9.5	1.3	20.96	27.3	18.1	1.8

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

EC MOTOR

Technical features – Water heating series with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACFM10W-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
ACFM15W-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
ACFM20W-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
ACFM25W-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
ACFM30W-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
ACFG10W-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
ACFG15W-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
ACFG20W-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
ACFG25W-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
ACFG30W-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185

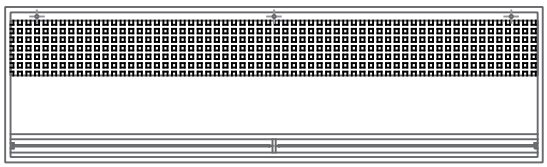
** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

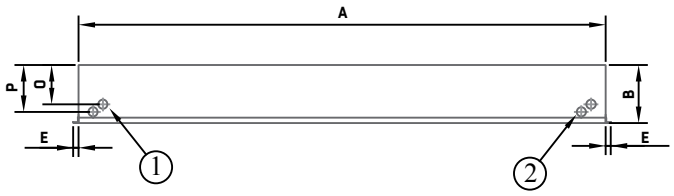
Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACFM10W-EC-I	1,860	13.98	40	14.2	0.6	8.11	30.8	5.5	0.4	5.72	27	10.7	0.5
ACFM15W-EC-I	2,790	22.12	41.2	21	1	13	31.6	8.3	0.6	9.12	27.6	15.9	0.8
ACFM20W-EC-I	3,720	30.25	41.8	23.4	1.3	17.85	32	9.4	0.8	12.5	27.8	17.9	1.1
ACFM25W-EC-I	4,650	38.35	42.1	27.9	1.7	22.68	32.3	11.2	1	15.87	28	21.3	1.4
ACFM30W-EC-I	5,580	46.17	42.2	20	2	27.23	32.3	8	1.2	19.07	28	15.2	1.7
ACFG10W-EC-I	2,790	17.59	36.4	21.7	0.8	10.17	28.7	8.4	0.4	7.19	25.5	16.2	0.6
ACFG15W-EC-I	3,720	26.13	38.5	28.5	1.1	15.3	30	11.2	0.7	10.76	26.5	21.5	0.9
ACFG20W-EC-I	5,580	38.23	38	35.8	1.7	22.47	29.8	14.3	1	15.78	26.3	27.3	1.4
ACFG25W-EC-I	6,510	46.63	39	39.9	2.1	27.5	30.4	15.9	1.2	19.28	26.7	30.3	1.7
ACFG30W-EC-I	7,440	54.64	39.5	27.2	2.4	32.14	30.6	10.8	1.4	22.55	26.9	20.7	2

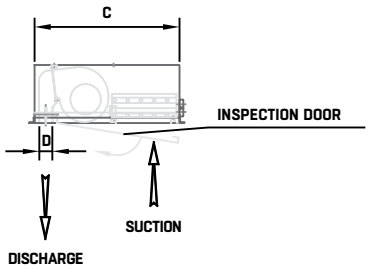
*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

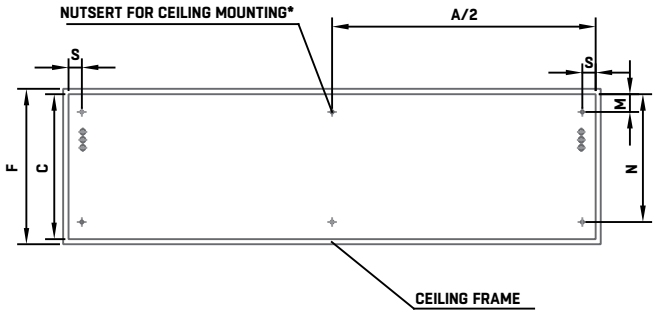
Dimensions (mm)

Model	A	B	C	D	E	F	M	N	O	P	S
AC-FM - AC-FG	1000-3000	220	550	50	25	600	65	490	148	178	50









* 4xM8 length 1000-1500 mm M-G
6xM8 length 200-3000 mm M-G
** Water connections side 1) standard; 2) on request
Water connections sizes: 3/4" M-G
*** Cables connections: right side standard; left side on request

Control – Electrical heating

R310E - 3-steps manual control included for electric heating version, connectable to ten air curtains at the same time

- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.

- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time

- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Recessed installation

Serie AC-Elite Oval

AC-Elite Oval air curtains for both horizontal and vertical installation, on or near the entrance doors. Installation heights from 3 to 3,8 meters. Suitable for fashion shops, banks, insurance companies, hotels and all kind of stylish and elegant places.

AC-Elite Oval range includes ambient versions, and versions with electrical heating or water heating, with lengths of 1,000, 1,500, 2,000, 2,500 and 3,000 mm (M - G versions). Also available with high efficiency EC motor.

Casing made of hot zinc plated and powder coated steel panels, white colour RAL 9016 containing powerful centrifugal fans.

Control systems (included): R510 model with 5 fan speed steps for both ambient and hot water version; R310 respectively controls the fan speed and heating in 3 steps. Plug and Play connections to the controller are easily accessible to ensure a fast and easy installation of the system.
Electrical heaters are equipped with a three levels security system and an automatic correlation between the air flow and heating to avoid dangerous overheating.

Control systems (optional): R515 with 5 fan speed steps for both ambient and hot water version, for door contact and room thermostat connection.

Motor protection class:
IP44

Electrical supply:
single phase 230V/50Hz (ambient version and with water heating) or three phases 400V/50 Hz (electrical heating versions).

On request:
- AISI 304 stainless steel version
- Other RAL colours
- Version for vertical mounting with horizontal air flow, floor bracket needed
- Water heating coil with higher heating capacity (see page 33 for technical data)

VERSION

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor

INSTALLATION

Horizontal installation
Vertical installation
Up to 3.8 meters
Plug & Play
Pre-wired controller

AIR FLOW

Up to 7,600 m³/h

ACCESSORIES

- Room thermostat, wall bracket. Ceiling mounting kit with anti-vibration mounts
- R515 control panel for water heating models: for door contact and room thermostat functioning
- 3-way ON/OFF valve
- Mechanical or magnetic door contact

Technical features – Ambient version with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEOM10A-I	1000	3	230/50/1	460	2.1	5	877	1023	1,242	1,461	1,680	38	53	54
ACEOM15A-I	1500	3	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	39	54	83
ACEOM20A-I	2000	3	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	41	55	109
ACEOM25A-I	2500	3	230/50/1	1,150	5.25	5	2,191	2,557	3,104	3,652	4,200	42	56	140
ACEOM30A-I	3000	3	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	57	163
ACEOG10A-I	1000	3.5	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	41	54	57
ACEOG15A-I	1500	3.5	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	42	55	84
ACEOG20A-I	2000	3.5	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	56	113
ACEOG25A-I	2500	3.5	230/50/1	1,610	7.35	5	3,068	3,579	4,346	5,113	5,880	44	57	146
ACEOG30A-I	3000	3.5	230/50/1	1,840	8.4	5	3,506	4,090	4,967	5,843	6,720	45	58	170

Technical features – Ambient version with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEOM10A-EC-I	1000	3.3	230/50/1	334	2.6	5	380	760	1,140	1,520	1,900	20	55	54
ACEOM15A-EC-I	1500	3.3	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	83
ACEOM20A-EC-I	2000	3.3	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	109
ACEOM25A-EC-I	2500	3.3	230/50/1	835	6.5	5	950	1,900	2,850	3,800	4,750	23	58	140
ACEOM30A-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	24	59	163
ACEOG10A-EC-I	1000	3.8	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	57
ACEOG15A-EC-I	1500	3.8	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	84
ACEOG20A-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	23	58	113
ACEOG25A-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,330	2,660	3,990	5,320	6,650	24	59	146
ACEOG30A-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,520	3,040	4,560	6,080	7,600	25	60	170

Technical features – Electrical series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/ph)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACEOM10E-I	1000	3	230/50/1	460	2.1	3	866	1,660	38	53	400/50/3	3/6/9	3 x 13	10	58
ACEOM15E-I	1500	3	230/50/1	690	3.15	3	1,299	2,490	39	54	400/50/3	4/8/12	3 x 17	10	88
ACEOM20E-I	2000	3	230/50/1	920	4.2	3	1,732	3,320	41	55	400/50/3	6/12/18	3 x 26	10	116
ACEOM25E-I	2500	3	230/50/1	1,150	5.25	3	2,165	4,150	42	56	400/50/3	6/12/18	3 x 26	10	148
ACEOM30E-I	3000	3	230/50/1	1,380	6.3	3	2,598	4,980	43	57	400/50/3	8/16/24	3 x 35	10	170
ACEOG10E-I	1000	3.5	230/50/1	690	3.15	3	1,299	2,490	41	54	400/50/3	5/10/15	3 x 22	10	62
ACEOG15E-I	1500	3.5	230/50/1	920	4.2	3	1,732	3,320	42	55	400/50/3	7.5/15/22.5	3 x 33	10	90
ACEOG20E-I	2000	3.5	230/50/1	1,380	6.3	3	2,598	4,980	43	56	400/50/3	10/20/30	3 x 43	10	120
ACEOG25E-I	2500	3.5	230/50/1	1,610	7.35	3	3,031	5,810	44	57	400/50/3	12/24/36	3 x 52	10	152
ACEOG30E-I	3000	3.5	230/50/1	1,840	8.4	3	3,464	6,640	45	58	400/50/3	12/24/36	3 x 52	10	175

Technical features – Electrical series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/ph)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACEOM10E-EC-I	1000	3.3	230/50/1	334	2.6	3	376	1,880	20	55	400/50/3	3/6/9	3 x 13	10	58
ACEOM15E-EC-I	1500	3.3	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	4/8/12	3 x 17	10	88
ACEOM20E-EC-I	2000	3.3	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	6/12/18	3 x 26	10	116
ACEOM25E-EC-I	2500	3.3	230/50/1	835	6.5	3	940	4,700	23	58	400/50/3	6/12/18	3 x 26	10	148
ACEOM30E-EC-I	3000	3.3	230/50/1	1,002	7.8	3	1,128	5,640	24	59	400/50/3	8/16/24	3 x 35	10	170
ACEOG10E-EC-I	1000	3.8	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	5/10/15	3 x 22	10	62
ACEOG15E-EC-I	1500	3.8	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	7.5/15/22.5	3 x 33	10	90
ACEOG20E-EC-I	2000	3.8	230/50/1	1,002	7.8	3	1,128	5,640	23	58	400/50/3	10/20/30	3 x 43	10	120
ACEOG25E-EC-I	2500	3.8	230/50/1	1,169	9.1	3	1,316	6,580	24	59	400/50/3	12/24/36	3 x 52	10	152
ACEOG30E-EC-I	3000	3.8	230/50/1	1,336	10.4	3	1,504	7,520	25	60	400/50/3	12/24/36	3 x 52	10	175

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Technical features – Water heating series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEOM10W-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
ACEOM15W-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
ACEOM20W-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
ACEOM25W-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
ACEOM30W-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
ACEOG10W-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
ACEOG15W-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
ACEOG20W-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
ACEOG25W-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
ACEOG30W-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACEOM10W-I	1,640	12.98	41.2	12.4	0.6	7.55	31.5	4.9	0.3	5.32	27.5	9.3	0.5
ACEOM15W-I	2,460	20.54	42.4	18.3	0.9	12.08	32.4	7.3	0.5	8.47	28.1	13.9	0.7
ACEOM20W-I	3,280	28.06	43	20.4	1.2	16.59	32.8	8.3	0.7	11.6	28.3	15.6	1
ACEOM25W-I	4,100	35.55	43.4	24.3	1.6	21.07	33	9.8	0.9	14.73	28.5	18.5	1.3
ACEOM30W-I	4,920	42.82	43.5	17.4	1.9	25.29	33	7	1.1	17.69	28.5	13.3	1.5
ACEOG10W-I	2,460	16.39	37.5	19	0.7	9.49	29.3	7.4	0.4	6.7	26	14.2	0.6
ACEOG15W-I	3,280	24.31	39.7	25	1.1	14.25	30.7	9.8	0.6	10.01	26.9	18.8	0.9
ACEOG20W-I	4,920	35.58	39.1	31.4	1.6	20.94	30.5	12.6	0.9	14.69	26.7	24	1.3
ACEOG25W-I	5,740	43.38	40.1	35	1.9	25.6	31	14	1.1	17.94	27.1	26.6	1.6
ACEOG30W-I	6,560	50.77	40.6	23.8	2.2	29.92	31.3	9.5	1.3	20.96	27.3	18.1	1.8

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

Technical features – Water heating series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEOM10W-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
ACEOM15W-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
ACEOM20W-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
ACEOM25W-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
ACEOM30W-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
ACEOG10W-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
ACEOG15W-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
ACEOG20W-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
ACEOG25W-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
ACEOG30W-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185

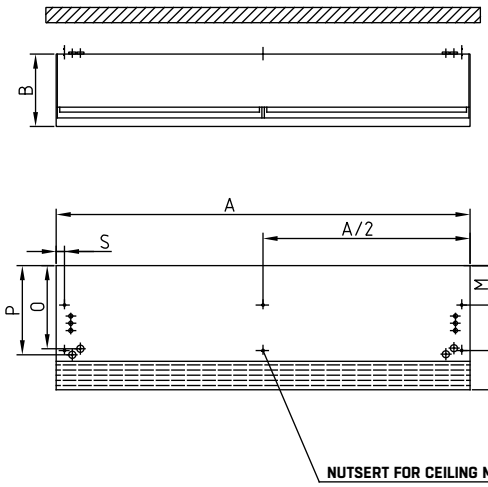
** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACEOM10W-EC-I	1,860	13.98	40	14.2	0.6	8.11	30.8	5.5	0.4	5.72	27	10.7	0.5
ACEOM15W-EC-I	2,790	22.12	41.2	21	1	13	31.6	8.3	0.6	9.12	27.6	15.9	0.8
ACEOM20W-EC-I	3,720	30.25	41.8	23.4	1.3	17.85	32	9.4	0.8	12.5	27.8	17.9	1.1
ACEOM25W-EC-I	4,650	38.35	42.1	27.9	1.7	22.68	32.3	11.2	1	15.87	28	21.3	1.4
ACEOM30W-EC-I	5,580	46.17	42.2	20	2	27.23	32.3	8	1.2	19.07	28	15.2	1.7
ACEOG10W-EC-I	2,790	17.59	36.4	21.7	0.8	10.17	28.7	8.4	0.4	7.19	25.5	16.2	0.6
ACEOG15W-EC-I	3,720	26.13	38.5	28.5	1.1	15.3	30	11.2	0.7	10.76	26.5	21.5	0.9
ACEOG20W-EC-I	5,580	38.23	38	35.8	1.7	22.47	29.8	14.3	1	15.78	26.3	27.3	1.4
ACEOG25W-EC-I	6,510	46.63	39	39.9	2.1	27.5	30.4	15.9	1.2	19.28	26.7	30.3	1.7
ACEOG30W-EC-I	7,440	54.64	39.5	27.2	2.4	32.14	30.6	10.8	1.4	22.55	26.9	20.7	2

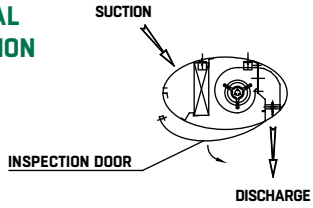
*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

Dimensions (mm)

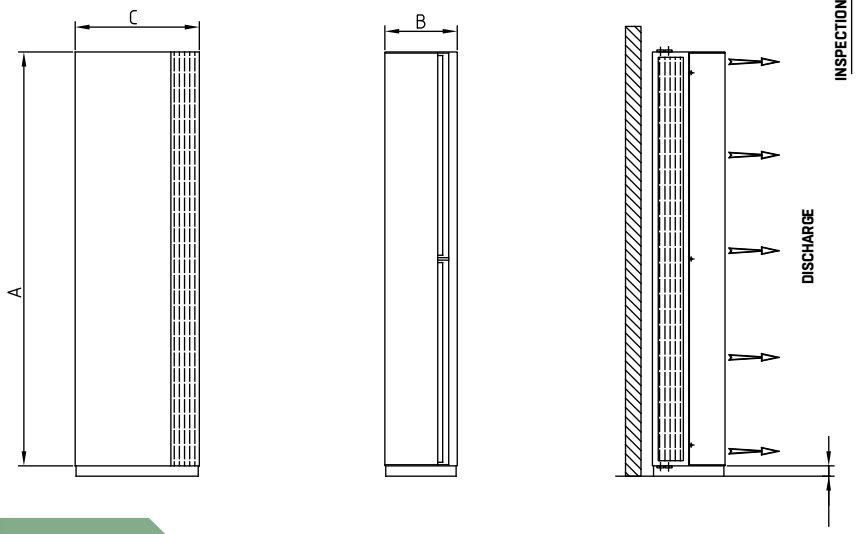
Model	A	B	C	M	N	O	P	S
AC-EO M - AC-EO G	1000-3000	350	600	190	410	401	430	40



HORIZONTAL INSTALLATION



VERTICAL INSTALLATION



* 4xM8 length 1000-1500 mm M-G
6xM8 length 2000-3000 mm M-G
** Water connections side: on request
Water connections sizes: 3/4" M-G
*** Cables connections: on request

Control – Electrical heating

R310E - 3-steps manual control included for electric heating version, connectable to ten air curtains at the same time
- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

AC-Elite Round

AC-Elite Round air curtains for both horizontal and vertical installation, on or near the entrance doors. Installation heights from 3 to 5,5 meters. Suitable for fashion shops, banks, insurance companies, hotels and all kind of stylish and elegant places.

AC-Elite Round range includes ambient versions, and versions with electrical heating or water heating, with lengths of 1,000, 1,500, 2,000, 2,500 and 3,000 mm (M - G versions). Also available with high efficiency EC motor.

Casing made of hot zinc plated and powder coated steel panels, white colour RAL 9016 containing powerful centrifugal fans.

Control systems (included): R510 model with 5 fan speed steps for both ambient and hot water version; R310 respectively controls the fan speed and heating in 3 steps. Plug and Play connections to the controller are easily accessible to ensure a fast and easy installation of the system.
Electrical heaters are equipped with a three levels security system and an automatic correlation between the air flow and heating to avoid dangerous overheating.

Control systems (optional): R515 with 5 fan speed steps for both ambient and hot water version, for door contact and room thermostat connection.

Motor protection class:
IP44

Electrical supply:
single phase 230V/50Hz (ambient version and with water heating) or three phases 400V/50 Hz (electrical heating versions).

On request:
- AISI 304 stainless steel version
- Other RAL colours
- Version for vertical mounting with horizontal air flow, floor bracket needed
- Water heating coil with higher heating capacity (see page 33 for technical data)

VERSION

Water heating | Electrical heating | Air only version (ambient) | High efficiency EC motor

INSTALLATION

Horizontal installation | Vertical installation | Up to 5.5 meters | Pre-wired controller (Plug & Play)

AIR FLOW

Up to 18,600 m³/h

ACCESSORIES

- Room thermostat, wall bracket. Ceiling mounting kit with anti-vibration mounts
- R515 control panel for water heating models: for door contact and room thermostat functioning
- 3-way ON/OFF valve
- Mechanical or magnetic door contact

Technical features – Ambient version with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACERM10A-I	1000	3	230/50/1	460	2.1	5	877	1023	1,242	1,461	1,680	38	53	54
ACERM15A-I	1500	3	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	39	54	83
ACERM20A-I	2000	3	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	41	55	109
ACERM25A-I	2500	3	230/50/1	1,150	5.25	5	2,191	2,557	3,104	3,652	4,200	42	56	140
ACERM30A-I	3000	3	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	57	163
ACERG10A-I	1000	3.5	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	41	54	57
ACERG15A-I	1500	3.5	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	42	55	84
ACERG20A-I	2000	3.5	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	56	113
ACERG25A-I	2500	3.5	230/50/1	1,610	7.35	5	3,068	3,579	4,346	5,113	5,880	44	57	146
ACERG30A-I	3000	3.5	230/50/1	1,840	8.4	5	3,506	4,090	4,967	5,843	6,720	45	58	170
ACERB10A-I	1000	4	230/50/1	1,005	4.38	5	2,137	2,493	3,027	3,561	4,095	44	57	90
ACERB15A-I	1500	4	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	45	58	103
ACERB20A-I	2000	4	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	47	60	133
ACERB25A-I	2500	4	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	49	62	180
ACERB30A-I	3000	4	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	50	63	224
ACERBB10A-I	1000	5	230/50/1	1,340	5.84	5	2,849	3,323	4,036	4,748	5,460	48	58	100
ACERBB15A-I	1500	5	230/50/1	2,010	8.76	5	4,273	4,985	6,053	7,122	8,190	49	60	119
ACERBB20A-I	2000	5	230/50/1	2,680	11.68	5	5,697	6,647	8,071	9,496	10,920	51	61	140
ACERBB25A-I	2500	5	230/50/1	3,350	14.6	5	7,122	8,309	10,089	11,870	13,650	52	62	186
ACERBB30A-I	3000	5	230/50/1	4,020	17.52	5	8,546	9,970	12,107	14,243	16,380	53	64	243

Technical features – Ambient version with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACERM10A-EC-I	1000	3.3	230/50/1	334	2.6	5	380	760	1,140	1,520	1,900	20	55	54
ACERM15A-EC-I	1500	3.3	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	83
ACERM20A-EC-I	2000	3.3	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	109
ACERM25A-EC-I	2500	3.3	230/50/1	835	6.5	5	950	1,900	2,850	3,800	4,750	23	58	140
ACERM30A-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	24	59	163
ACERG10A-EC-I	1000	3.8	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	57
ACERG15A-EC-I	1500	3.8	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	84
ACERG20A-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	23	58	113
ACERG25A-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,330	2,660	3,990	5,320	6,650	24	59	146
ACERG30A-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,520	3,040	4,560	6,080	7,600	25	60	170
ACERB10A-EC-I	1000	4.5	230/50/1	1,125	4.95	5	930	1,860	2,790	3,720	4,650	24	59	90
ACERB15A-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	103
ACERB20A-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	133
ACERB25A-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	29	64	180
ACERB30A-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	30	65	224
ACERBB10A-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,240	2,480	3,720	4,960	6,200	25	60	100
ACERBB15A-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,860	3,720	5,580	7,440	9,300	27	62	119
ACERBB20A-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,480	4,960	7,440	9,920	12,400	28	63	140
ACERBB25A-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,100	6,200	9,300	12,400	15,500	29	64	186
ACERBB30A-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,720	7,440	11,160	14,880	18,600	31	66	243

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Technical features – Electrical series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACERM10E-I	1000	3	230/50/1	460	2.1	3	866	1,660	38	53	400/50/3	3/6/9	3 x 13	10	58
ACERM15E-I	1500	3	230/50/1	690	3.15	3	1,299	2,490	39	54	400/50/3	4/8/12	3 x 17	10	88
ACERM20E-I	2000	3	230/50/1	920	4.2	3	1,732	3,320	41	55	400/50/3	6/12/18	3 x 26	10	116
ACERM25E-I	2500	3	230/50/1	1,150	5.25	3	2,165	4,150	42	56	400/50/3	6/12/18	3 x 26	10	148
ACERM30E-I	3000	3	230/50/1	1,380	6.3	3	2,598	4,980	43	57	400/50/3	8/16/24	3 x 35	10	170
ACERG10E-I	1000	3.5	230/50/1	690	3.15	3	1,299	2,490	41	54	400/50/3	5/10/15	3 x 22	10	62
ACERG15E-I	1500	3.5	230/50/1	920	4.2	3	1,732	3,320	42	55	400/50/3	7.5/15/22.5	3 x 33	10	90
ACERG20E-I	2000	3.5	230/50/1	1,380	6.3	3	2,598	4,980	43	56	400/50/3	10/20/30	3 x 43	10	120
ACERG25E-I	2500	3.5	230/50/1	1,610	7.35	3	3,031	5,810	44	57	400/50/3	12/24/36	3 x 52	10	152
ACERG30E-I	3000	3.5	230/50/1	1,840	8.4	3	3,464	6,640	45	58	400/50/3	12/24/36	3 x 52	10	175
ACERB10E-I	1000	4	230/50/1	1,005	4.38	3	2,097	4,020	44	57	400/50/3	5/10/15	3 x 22	10	95
ACERB15E-I	1500	4	230/50/1	1,340	5.84	3	2,797	5,360	45	58	400/50/3	7.5/15/22.5	3 x 33	10	111
ACERB20E-I	2000	4	230/50/1	2,010	8.76	3	4,195	8,040	47	60	400/50/3	10/20/30	3 x 43	10	138
ACERB25E-I	2500	4	230/50/1	2,680	11.68	3	5,593	10,720	49	62	400/50/3	12/24/36	3 x 52	10	187
ACERB30E-I	3000	4	230/50/1	3,350	14.6	3	6,991	13,400	50	63	400/50/3	12/24/36	3 x 52	10	230
ACERBB10E-I	1000	5	230/50/1	1,340	5.84	3	2,797	5,360	48	58	400/50/3	5/10/15	3 x 52	10	105
ACERBB15E-I	1500	5	230/50/1	2,010	8.76	3	4,195	8,040	49	60	400/50/3	7.5/15/22.5	3 x 33	10	126
ACERBB20E-I	2000	5	230/50/1	2,680	11.68	3	5,593	10,720	51	61	400/50/3	10/20/30	3 x 43	10	147
ACERBB25E-I	2500	5	230/50/1	3,350	14.6	3	6,991	13,400	52	62	400/50/3	12/24/36	3 x 52	10	195
ACERBB30E-I	3000	5	230/50/1	4,020	17.52	3	8,390	16,080	53	64	400/50/3	12/24/36	3 x 52	10	250

Technical features – Electrical series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level* (dB(A))		Electric heating coil supply (Volt/Hz/fase)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACERM10E-EC-I	1000	3.3	230/50/1	334	2.6	3	376	1,880	20	55	400/50/3	3/6/9	3 x 13	10	58
ACERM15E-EC-I	1500	3.3	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	4/8/12	3 x 17	10	88
ACERM20E-EC-I	2000	3.3	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	6/12/18	3 x 26	10	116
ACERM25E-EC-I	2500	3.3	230/50/1	835	6.5	3	940	4,700	23	58	400/50/3	6/12/18	3 x 26	10	148
ACERM30E-EC-I	3000	3.3	230/50/1	1,002	7.8	3	1,128	5,640	24	59	400/50/3	8/16/24	3 x 35	10	170
ACERG10E-EC-I	1000	3.8	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	5/10/15	3 x 22	10	62
ACERG15E-EC-I	1500	3.8	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	7.5/15/22.5	3 x 33	10	90
ACERG20E-EC-I	2000	3.8	230/50/1	1,002	7.8	3	1,128	5,640	23	58	400/50/3	10/20/30	3 x 43	10	120
ACERG25E-EC-I	2500	3.8	230/50/1	1,169	9.1	3	1,316	6,580	24	59	400/50/3	12/24/36	3 x 52	10	152
ACERG30E-EC-I	3000	3.8	230/50/1	1,336	10.4	3	1,504	7,520	25	60	400/50/3	12/24/36	3 x 52	10	175
ACERB10E-EC-I	1000	4.5	230/50/1	1,125	4.95	3	915	4,575	24	59	400/50/3	5/10/15	3 x 22	10	95
ACERB15E-EC-I	1500	4.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	7.5/15/22.5	3 x 33	10	111
ACERB20E-EC-I	2000	4.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	10/20/30	3 x 43	10	138
ACERB25E-EC-I	2500	4.5	230/50/1	3,000	13.2	3	2,440	12,200	29	64	400/50/3	12/24/36	3 x 52	10	187
ACERB30E-EC-I	3000	4.5	230/50/1	3,750	16.5	3	3,050	15,250	30	65	400/50/3	12/24/36	3 x 52	10	230
ACERBB10E-EC-I	1000	5.5	230/50/1	1,500	6.6	3	1,220	6,100	25	60	400/50/3	5/10/15	3 x 52	10	105
ACERBB15E-EC-I	1500	5.5	230/50/1	2,250	9.9	3	1,830	9,150	27	62	400/50/3	7.5/15/22.5	3 x 33	10	126
ACERBB20E-EC-I	2000	5.5	230/50/1	3,000	13.2	3	2,440	12,200	28	63	400/50/3	10/20/30	3 x 43	10	147
ACERBB25E-EC-I	2500	5.5	230/50/1	3,750	16.5	3	3,050	15,250	29	64	400/50/3	12/24/36	3 x 52	10	195
ACERBB30E-EC-I	3000	5.5	230/50/1	4,500	19.8	3	3,660	18,300	31	66	400/50/3	12/24/36	3 x 52	10	250

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Control – Electrical heating

R310E - 3-steps manual control included for electric heating version, connectable to ten air curtains at the same time

- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

Technical features – Water heating series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACERM10W-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
ACERM15W-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
ACERM20W-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
ACERM25W-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
ACERM30W-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
ACERG10W-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
ACERG15W-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
ACERG20W-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
ACERG25W-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
ACERG30W-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185
ACERB10W-I	1000	4	230/50/1	1,005	4.38	5	2,058	2,401	2,916	3,430	3,945	44	57	105
ACERB15W-I	1500	4	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	45	58	125
ACERB20W-I	2000	4	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	47	60	155
ACERB25W-I	2500	4	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	49	62	205
ACERB30W-I	3000	4	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	50	63	245
ACERBB10W-I	1000	5	230/50/1	1,340	5.84	5	2,744	3,202	3,888	4,574	5,260	48	58	115
ACERBB15W-I	1500	5	230/50/1	2,010	8.76	5	4,117	4,803	5,832	6,861	7,890	49	60	135
ACERBB20W-I	2000	5	230/50/1	2,680	11.68	5	5,489	6,403	7,776	9,148	10,520	51	61	175
ACERBB25W-I	2500	5	230/50/1	3,350	14.6	5	6,861	8,004	9,720	11,435	13,150	52	62	218
ACERBB30W-I	3000	5	230/50/1	4,020	17.52	5	8,233	9,605	11,663	13,722	15,780	53	64	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACERM10W-I	1,640	12.98	41.2	12.4	0.6	7.55	31.5	4.9	0.3	5.32	27.5	9.3	0.5
ACERM15W-I	2,460	20.54	42.4	18.3	0.9	12.08	32.4	7.3	0.5	8.47	28.1	13.9	0.7
ACERM20W-I	3,280	28.06	43	20.4	1.2	16.59	32.8	8.3	0.7	11.6	28.3	15.6	1
ACERM25W-I	4,100	35.55	43.4	24.3	1.6	21.07	33	9.8	0.9	14.73	28.5	18.5	1.3
ACERM30W-I	4,920	42.82	43.5	17.4	1.9	25.29	33	7	1.1	17.69	28.5	13.3	1.5
ACERG10W-I	2,460	16.39	37.5	19	0.7	9.49	29.3	7.4	0.4	6.7	26	14.2	0.6
ACERG15W-I	3,280	24.31	39.7	25	1.1	14.25	30.7	9.8	0.6	10.01	26.9	18.8	0.9
ACERG20W-I	4,920	35.58	39.1	31.4	1.6	20.94	30.5	12.6	0.9	14.69	26.7	24	1.3
ACERG25W-I	5,740	43.38	40.1	35	1.9	25.6	31	14	1.1	17.94	27.1	26.6	1.6
ACERG30W-I	6,560	50.77	40.6	23.8	2.2	29.92	31.3	9.5	1.3	20.96	27.3	18.1	1.8
ACERB10W-I	3,945	21.13	33.7	10.3	0.9	11.97	26.9	3.9	0.5	8.54	24.3	7.6	0.7
ACERB15W-I	5,260	33.36	36.5	16.6	1.5	19.34	28.8	6.4	0.8	13.67	25.6	12.3	1.2
ACERB20W-I	7,890	49.67	36.4	21.9	2.2	28.99	28.7	8.6	1.3	20.43	25.6	16.6	1.8
ACERB25W-I	10,520	66.05	36.4	29	2.9	38.63	28.7	11.3	1.7	27.19	25.6	21.8	2.4
ACERB30W-I	13,150	81.9	36.2	22.1	3.6	47.76	28.6	8.6	2.1	33.64	25.5	16.6	2.9
ACERBB10W-I	5,260	24.45	31.6	13.5	1.1	13.83	25.7	5	0.6	9.88	23.5	9.9	0.9
ACERBB15W-I	7,890	41.25	33.3	24.5	1.8	23.81	26.8	9.3	1	16.87	24.3	18.2	1.5
ACERBB20W-I	10,520	57.8	34.1	28.9	2.5	33.65	27.4	11.3	1.5	23.76	24.6	21.8	2.1
ACERBB25W-I	13,150	74.25	34.5	36	3.3	43.37	27.6	14	1.9	30.59	24.8	27.1	2.7
ACERBB30W-I	15,780	90.17	34.7	26.3	4	52.46	27.7	10.2	2.3	37.03	24.9	19.7	3.2

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Technical features – Water heating series with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m³/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACERM10W-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
ACERM15W-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
ACERM20W-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
ACERM25W-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
ACERM30W-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
ACERG10W-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
ACERG15W-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
ACERG20W-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
ACERG25W-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
ACERG30W-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185
ACERB10W-EC-I	1000	4.5	230/50/1	1,125	4.95	5	900	1,800	2,700	3,600	4,500	24	59	105
ACERB15W-EC-I	1500	4.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	125
ACERB20W-EC-I	2000	4.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	155
ACERB25W-EC-I	2500	4.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	29	64	205
ACERB30W-EC-I	3000	4.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	30	65	245
ACERBB10W-EC-I	1000	5.5	230/50/1	1,500	6.6	5	1,200	2,400	3,600	4,800	6,000	25	60	115
ACERBB15W-EC-I	1500	5.5	230/50/1	2,250	9.9	5	1,800	3,600	5,400	7,200	9,000	27	62	135
ACERBB20W-EC-I	2000	5.5	230/50/1	3,000	13.2	5	2,400	4,800	7,200	9,600	12,000	28	63	175
ACERBB25W-EC-I	2500	5.5	230/50/1	3,750	16.5	5	3,000	6,000	9,000	12,000	15,000	29	64	218
ACERBB30W-EC-I	3000	5.5	230/50/1	4,500	19.8	5	3,600	7,200	10,800	14,400	18,000	31	66	268

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m³/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m³/h)
ACERM10W-EC-I	1,860	13.98	40	14.2	0.6	8.11	30.8	5.5	0.4	5.72	27	10.7	0.5
ACERM15W-EC-I	2,790	22.12	41.2	21	1	13	31.6	8.3	0.6	9.12	27.6	15.9	0.8
ACERM20W-EC-I	3,720	30.25	41.8	23.4	1.3	17.85	32	9.4	0.8	12.5	27.8	17.9	1.1
ACERM25W-EC-I	4,650	38.35	42.1	27.9	1.7	22.68	32.3	11.2	1	15.87	28	21.3	1.4
ACERM30W-EC-I	5,580	46.17	42.2	20	2	27.23	32.3	8	1.2	19.07	28	15.2	1.7
ACERG10W-EC-I	2,790	17.59	36.4	21.7	0.8	10.17	28.7	8.4	0.4	7.19	25.5	16.2	0.6
ACERG15W-EC-I	3,720	26.13	38.5	28.5	1.1	15.3	30	11.2	0.7	10.76	26.5	21.5	0.9
ACERG20W-EC-I	5,580	38.23	38	35.8	1.7	22.47	29.8	14.3	1	15.78	26.3	27.3	1.4
ACERG25W-EC-I	6,510	46.63	39	39.9	2.1	27.5	30.4	15.9	1.2	19.28	26.7	30.3	1.7
ACERG30W-EC-I	7,440	54.64	39.5	27.2	2.4	32.14	30.6	10.8	1.4	22.55	26.9	20.7	2
ACERB10W-EC-I	4,500	22.6	32.7	11.7	1	12.8	26.3	4.4	0.6	9.14	23.9	8.6	0.8
ACERB15W-EC-I	6,000	35.8	35.5	18.9	1.6	20.72	28.1	7.2	0.9	14.64	25.1	14	1.3
ACERB20W-EC-I	9,000	53.31	35.3	24.9	2.3	31.05	28.1	9.8	1.4	21.91	25.1	18.8	1.9
ACERB25W-EC-I	12,000	70.77	35.2	32.9	3.1	41.4	28.1	12.9	1.8	29.17	25.1	24.8	2.5
ACERB30W-EC-I	15,000	87.74	35.1	25	3.9	51.14	28	9.8	2.2	36.06	25	18.8	3.1
ACERBB10W-EC-I	6,000	26.1	30.7	15.2	1.1	14.74	25.2	5.6	0.6	10.55	23.1	11.2	0.9
ACERBB15W-EC-I	9,000	44.14	32.3	27.7	1.9	25.45	26.3	10.5	1.1	18.04	23.9	20.6	1.6
ACERBB20W-EC-I	12,000	61.84	33.1	32.7	2.7	35.96	26.8	12.8	1.6	25.41	24.2	24.7	2.2
ACERBB25W-EC-I	15,000	79.53	33.5	40.8	3.5	46.4	27	15.9	2	32.73	24.4	30.6	2.8
ACERBB30W-EC-I	18,000	96.52	33.7	29.8	4.2	56.1	27.1	11.6	2.4	39.65	24.4	22.4	3.4

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

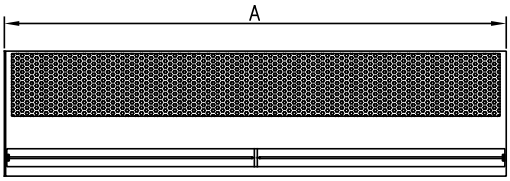
Control – Water heating

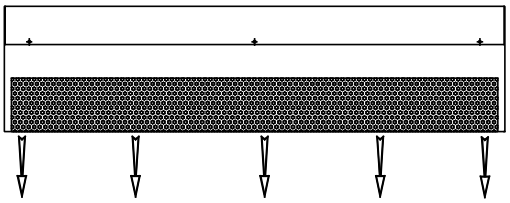
R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Dimensions (mm)

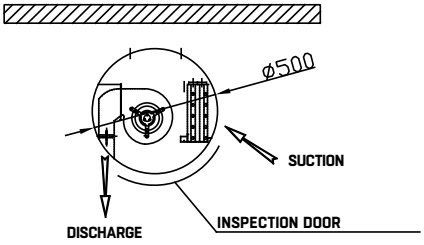
Model	A
AC-ER M - AC-ER G - AC-ER B - AC-ER BB	1000 - 1500 - 2000 - 2500 - 3000



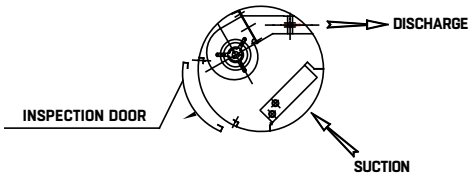


DISCHARGE

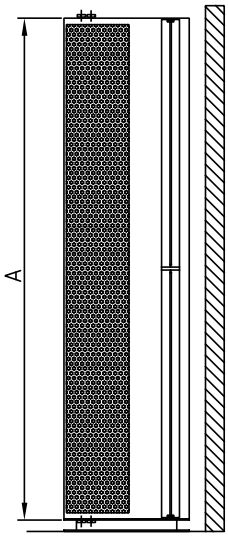
HORIZONTAL INSTALLATION

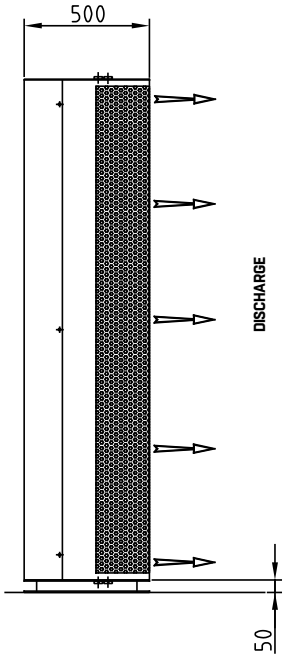


Installations and wall brackets can be personalized according to mounting needs. Please contact FläktGroup technical office.



VERTICAL INSTALLATION





Serie AC-Elite Alas

AC-Elite Alas air curtains for both horizontal and vertical installation, on or near the entrance doors. Installation heights from 3 to 3,8 meters. Suitable for fashion shops, banks, insurance companies, hotels and all kind of stylish and elegant places.

AC-Elite Oval range includes ambient versions, and versions with electrical heating or water heating, with lengths of 1,000, 1,500, 2,000, 2,500 and 3,000 mm (M - G versions). Also available with high efficiency EC motor.

Casing made of hot zinc plated and powder coated steel panels, white colour RAL 9016 containing powerful centrifugal fans.

Control systems (included): R510 model with 5 fan speed steps for both ambient and hot water version; R310 respectively controls the fan speed and heating in 3 steps. Plug and Play connections to the controller are easily accessible to ensure a fast and easy installation of the system.
Electrical heaters are equipped with a three levels security system and an automatic correlation between the air flow and heating to avoid dangerous overheating.

Control systems (optional): R515 with 5 fan speed steps for both ambient and hot water version, for door contact and room thermostat connection.

Motor protection class:
IP44

Electrical supply:
single phase 230V/50Hz (ambient version and with water heating) or three phases 400V/50 Hz (electrical heating versions).

On request:
- AISI 304 stainless steel version
- Other RAL colours
- Version for vertical mounting with horizontal air flow, floor bracket needed
- Water heating coil with higher heating capacity (see page 33 for technical data)

VERSION

Water heating
Electrical heating
Air only version (ambient)
High efficiency EC motor

INSTALLATION

Horizontal installation
Vertical installation
Up to 3.8 meters
Plug & Play
Pre-wired controller

AIR FLOW

Up to 7,600 m³/h

ACCESSORIES

- Room thermostat, wall bracket. Ceiling mounting kit with anti-vibration mounts
- R515 control panel for water heating models: for door contact and room thermostat functioning
- 3-way ON/OFF valve
- Mechanical or magnetic door contact

Technical features – Ambient version with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEAM10A-I	1000	3	230/50/1	460	2.1	5	877	1023	1,242	1,461	1,680	38	53	54
ACEAM15A-I	1500	3	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	39	54	83
ACEAM20A-I	2000	3	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	41	55	109
ACEAM25A-I	2500	3	230/50/1	1,150	5.25	5	2,191	2,557	3,104	3,652	4,200	42	56	140
ACEAM30A-I	3000	3	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	57	163
ACEAG10A-I	1000	3.5	230/50/1	690	3.15	5	1,315	1,534	1,863	2,191	2,520	41	54	57
ACEAG15A-I	1500	3.5	230/50/1	920	4.2	5	1,753	2,045	2,483	2,922	3,360	42	55	84
ACEAG20A-I	2000	3.5	230/50/1	1,380	6.3	5	2,630	3,068	3,725	4,383	5,040	43	56	113
ACEAG25A-I	2500	3.5	230/50/1	1,610	7.35	5	3,068	3,579	4,346	5,113	5,880	44	57	146
ACEAG30A-I	3000	3.5	230/50/1	1,840	8.4	5	3,506	4,090	4,967	5,843	6,720	45	58	170

EC MOTOR

Technical features – Ambient version with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEAM10A-EC-I	1000	3.3	230/50/1	334	2.6	5	380	760	1,140	1,520	1,900	20	55	54
ACEAM15A-EC-I	1500	3.3	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	83
ACEAM20A-EC-I	2000	3.3	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	109
ACEAM25A-EC-I	2500	3.3	230/50/1	835	6.5	5	950	1,900	2,850	3,800	4,750	23	58	140
ACEAM30A-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	24	59	163
ACEAG10A-EC-I	1000	3.8	230/50/1	501	3.9	5	570	1,140	1,710	2,280	2,850	21	56	57
ACEAG15A-EC-I	1500	3.8	230/50/1	668	5.2	5	760	1,520	2,280	3,040	3,800	22	57	84
ACEAG20A-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,140	2,280	3,420	4,560	5,700	23	58	113
ACEAG25A-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,330	2,660	3,990	5,320	6,650	24	59	146
ACEAG30A-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,520	3,040	4,560	6,080	7,600	25	60	170

Technical features – Electrical series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/ph)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACEAM10E-I	1000	3	230/50/1	460	2.1	3	866	1,660	38	53	400/50/3	3/6/9	3 x 13	10	58
ACEAM15E-I	1500	3	230/50/1	690	3.15	3	1,299	2,490	39	54	400/50/3	4/8/12	3 x 17	10	88
ACEAM20E-I	2000	3	230/50/1	920	4.2	3	1,732	3,320	41	55	400/50/3	6/12/18	3 x 26	10	116
ACEAM25E-I	2500	3	230/50/1	1,150	5.25	3	2,165	4,150	42	56	400/50/3	6/12/18	3 x 26	10	148
ACEAM30E-I	3000	3	230/50/1	1,380	6.3	3	2,598	4,980	43	57	400/50/3	8/16/24	3 x 35	10	170
ACEAG10E-I	1000	3.5	230/50/1	690	3.15	3	1,299	2,490	41	54	400/50/3	5/10/15	3 x 22	10	62
ACEAG15E-I	1500	3.5	230/50/1	920	4.2	3	1,732	3,320	42	55	400/50/3	7.5/15/22.5	3 x 33	10	90
ACEAG20E-I	2000	3.5	230/50/1	1,380	6.3	3	2,598	4,980	43	56	400/50/3	10/20/30	3 x 43	10	120
ACEAG25E-I	2500	3.5	230/50/1	1,610	7.35	3	3,031	5,810	44	57	400/50/3	12/24/36	3 x 52	10	152
ACEAG30E-I	3000	3.5	230/50/1	1,840	8.4	3	3,464	6,640	45	58	400/50/3	12/24/36	3 x 52	10	175

EC MOTOR

Technical features – Electrical series with EC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)		Sound level** (dB(A))		Electric heating coil supply (Volt/Hz/ph)	Heating output (kW)	Electric heating coil current (A)	Temperature rise (°C)	Weight (kg)
							min.	max	min.	max					
ACEAM10E-EC-I	1000	3.3	230/50/1	334	2.6	3	376	1,880	20	55	400/50/3	3/6/9	3 x 13	10	58
ACEAM15E-EC-I	1500	3.3	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	4/8/12	3 x 17	10	88
ACEAM20E-EC-I	2000	3.3	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	6/12/18	3 x 26	10	116
ACEAM25E-EC-I	2500	3.3	230/50/1	835	6.5	3	940	4,700	23	58	400/50/3	6/12/18	3 x 26	10	148
ACEAM30E-EC-I	3000	3.3	230/50/1	1,002	7.8	3	1,128	5,640	24	59	400/50/3	8/16/24	3 x 35	10	170
ACEAG10E-EC-I	1000	3.8	230/50/1	501	3.9	3	564	2,820	21	56	400/50/3	5/10/15	3 x 22	10	62
ACEAG15E-EC-I	1500	3.8	230/50/1	668	5.2	3	752	3,760	22	57	400/50/3	7.5/15/22.5	3 x 33	10	90
ACEAG20E-EC-I	2000	3.8	230/50/1	1,002	7.8	3	1,128	5,640	23	58	400/50/3	10/20/30	3 x 43	10	120
ACEAG25E-EC-I	2500	3.8	230/50/1	1,169	9.1	3	1,316	6,580	24	59	400/50/3	12/24/36	3 x 52	10	152
ACEAG30E-EC-I	3000	3.8	230/50/1	1,336	10.4	3	1,504	7,520	25	60	400/50/3	12/24/36	3 x 52	10	175

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Technical features – Water heating series with AC motors

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEAM10W-I	1000	3	230/50/1	460	2.1	5	856	998	1,212	1,426	1,640	38	53	63
ACEAM15W-I	1500	3	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	39	54	95
ACEAM20W-I	2000	3	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	41	55	126
ACEAM25W-I	2500	3	230/50/1	1,150	5.25	5	2,139	2,496	3,030	3,565	4,100	42	56	155
ACEAM30W-I	3000	3	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	57	182
ACEAG10W-I	1000	3.5	230/50/1	690	3.15	5	1,283	1,497	1,818	2,139	2,460	41	54	64
ACEAG15W-I	1500	3.5	230/50/1	920	4.2	5	1,711	1,997	2,424	2,852	3,280	42	55	96
ACEAG20W-I	2000	3.5	230/50/1	1,380	6.3	5	2,567	2,995	3,637	4,278	4,920	43	56	128
ACEAG25W-I	2500	3.5	230/50/1	1,610	7.35	5	2,995	3,494	4,243	4,991	5,740	44	57	157
ACEAG30W-I	3000	3.5	230/50/1	1,840	8.4	5	3,423	3,993	4,849	5,704	6,560	45	58	185

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACEAM10W-I	1,640	12.98	41.2	12.4	0.6	7.55	31.5	4.9	0.3	5.32	27.5	9.3	0.5
ACEAM15W-I	2,460	20.54	42.4	18.3	0.9	12.08	32.4	7.3	0.5	8.47	28.1	13.9	0.7
ACEAM20W-I	3,280	28.06	43	20.4	1.2	16.59	32.8	8.3	0.7	11.6	28.3	15.6	1
ACEAM25W-I	4,100	35.55	43.4	24.3	1.6	21.07	33	9.8	0.9	14.73	28.5	18.5	1.3
ACEAM30W-I	4,920	42.82	43.5	17.4	1.9	25.29	33	7	1.1	17.69	28.5	13.3	1.5
ACEAG10W-I	2,460	16.39	37.5	19	0.7	9.49	29.3	7.4	0.4	6.7	26	14.2	0.6
ACEAG15W-I	3,280	24.31	39.7	25	1.1	14.25	30.7	9.8	0.6	10.01	26.9	18.8	0.9
ACEAG20W-I	4,920	35.58	39.1	31.4	1.6	20.94	30.5	12.6	0.9	14.69	26.7	24	1.3
ACEAG25W-I	5,740	43.38	40.1	35	1.9	25.6	31	14	1.1	17.94	27.1	26.6	1.6
ACEAG30W-I	6,560	50.77	40.6	23.8	2.2	29.92	31.3	9.5	1.3	20.96	27.3	18.1	1.8

*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

Technical features – Water heating series with EC motors

EC MOTOR

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Number of speed	Air flow (m^3/h)					Sound level** (dB(A))		Weight (kg)
							Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	min.	max	
ACEAM10W-EC-I	1000	3.3	230/50/1	334	2.6	5	372	744	1,116	1,488	1,860	20	55	63
ACEAM15W-EC-I	1500	3.3	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	95
ACEAM20W-EC-I	2000	3.3	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	126
ACEAM25W-EC-I	2500	3.3	230/50/1	835	6.5	5	930	1,860	2,790	3,720	4,650	23	58	155
ACEAM30W-EC-I	3000	3.3	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	24	59	182
ACEAG10W-EC-I	1000	3.8	230/50/1	501	3.9	5	558	1,116	1,674	2,232	2,790	21	56	64
ACEAG15W-EC-I	1500	3.8	230/50/1	668	5.2	5	744	1,488	2,232	2,976	3,720	22	57	96
ACEAG20W-EC-I	2000	3.8	230/50/1	1,002	7.8	5	1,116	2,232	3,348	4,464	5,580	23	58	128
ACEAG25W-EC-I	2500	3.8	230/50/1	1,169	9.1	5	1,302	2,604	3,906	5,208	6,510	24	59	157
ACEAG30W-EC-I	3000	3.8	230/50/1	1,336	10.4	5	1,488	2,976	4,464	5,952	7,440	25	60	185

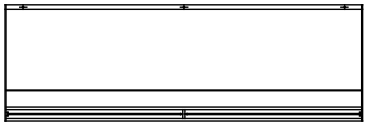
** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences. ** Free field sound pressure level measured at 3 meters at maximum and minimum speed.*

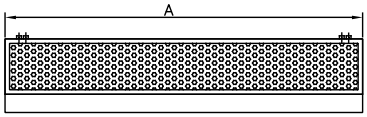
Model	Max air flow (m^3/h)	*Water temperature 80/60°C				*Water temperature 60/40°C				*Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACEAM10W-EC-I	1,860	13.98	40	14.2	0.6	8.11	30.8	5.5	0.4	5.72	27	10.7	0.5
ACEAM15W-EC-I	2,790	22.12	41.2	21	1	13	31.6	8.3	0.6	9.12	27.6	15.9	0.8
ACEAM20W-EC-I	3,720	30.25	41.8	23.4	1.3	17.85	32	9.4	0.8	12.5	27.8	17.9	1.1
ACEAM25W-EC-I	4,650	38.35	42.1	27.9	1.7	22.68	32.3	11.2	1	15.87	28	21.3	1.4
ACEAM30W-EC-I	5,580	46.17	42.2	20	2	27.23	32.3	8	1.2	19.07	28	15.2	1.7
ACEAG10W-EC-I	2,790	17.59	36.4	21.7	0.8	10.17	28.7	8.4	0.4	7.19	25.5	16.2	0.6
ACEAG15W-EC-I	3,720	26.13	38.5	28.5	1.1	15.3	30	11.2	0.7	10.76	26.5	21.5	0.9
ACEAG20W-EC-I	5,580	38.23	38	35.8	1.7	22.47	29.8	14.3	1	15.78	26.3	27.3	1.4
ACEAG25W-EC-I	6,510	46.63	39	39.9	2.1	27.5	30.4	15.9	1.2	19.28	26.7	30.3	1.7
ACEAG30W-EC-I	7,440	54.64	39.5	27.2	2.4	32.14	30.6	10.8	1.4	22.55	26.9	20.7	2

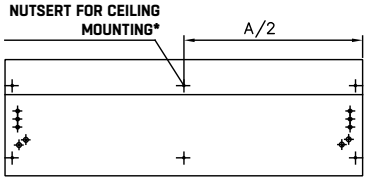
*All data are referred to maximum air flow. ΔP: pressure drop water side. *Air inlet temperature: 18°C.*

Dimensions (mm)

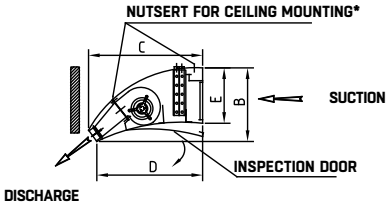
Model	A	B	C	D	E
AC-EA M - AC-EA G	1000-3000	385	650	570	300

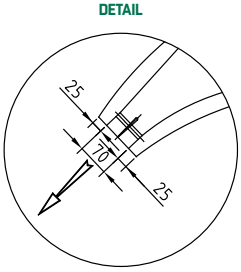




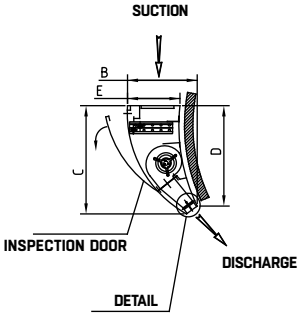


HORIZONTAL INSTALLATION

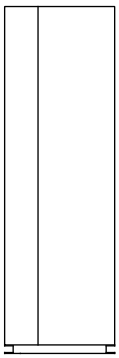


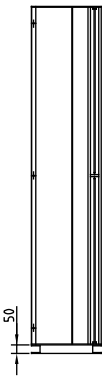


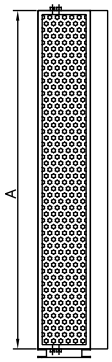
VERTICAL INSTALLATION



* 4xM8 length 1000-1500 mm M-G
6xM8 length 2000-3000 mm M-G
** Water connections side: on request
Water connections sizes: 3/4" M-G
*** Cables connections: on request







Control – Electrical heating

R310E - 3-steps manual control included for electric heating version, connectable to ten air curtains at the same time
- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

Control – Water heating

R510 - 5-steps manual control included for the ambient version and water heating version, connectable to 10 air curtains at the same time.
- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5-steps manual or automatic control optional for ambient version or water heating version, connectable to 10 air curtains at the same time
- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

Air curtains » Industrial

AC-Axiplus

AC-Axiplus air curtains for both horizontal and vertical installation on big openings, maximum installation height 6 meters. Suitable for use in industrial applications, hangars, warehouses and similar.

AC-Axiplus range includes ambient versions, and versions with water heating (e.g. 80/60°C, 60/40°C e 45/35°C), with lengths of 1,200, 1,800, 2,400 and 3,000 mm.

Casing made of steel sheet, powder coated (standard colour RAL9016), in different RAL colours on request.

Casing is equipped with fixing holes on the the upper side, M10 threading, for suspended horizontal installation above the opening. Floor bracket, factory installed on the side panel, for vertical installation next to the door.

Axial fans with external rotor motor and related electrical connections are accessible directly from the outside for easy maintenance.

Heating coils are accessible by removing the supply module.

The outlet is equipped with an adjustable blade that allows to direct the air flow launch

Control systems (optional):
TDDSD autotransformer control with 5 fan speed steps and high/low speed switching;
TDDP autotransformer control with 5 fan speed steps and 0-10V input.

Motor protection class:
IP44

Electrical supply:
three phases 400 V 50 Hz.
Available on request: single phase electrical supply 230V 50Hz; please contact FläktGroup technical office.

VERSION

Water heating

Air only version (ambient)

INSTALLATION

Horizontal installation

Vertical installation

Up to 6 meters

AIR FLOW

Up to 26,000 m³/h

ACCESSORIES

- Mechanical door contact
- Thermostat
- Floor bracket
- Auto-transformer controller

Technical features – Ambient version

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Air flow (m^3/h)	Sound level** (dB(A))	Weight (kg)
ACAXI120A-I	1200	6	400/50/3	960	1.96	10,400	68	65
ACAXI180A-I	1800	6	400/50/3	1,440	2.94	15,600	70	89
ACAXI240A-I	2400	6	400/50/3	1,920	3.92	20,800	72	122
ACAXI300A-I	3000	6	400/50/3	2,400	4.9	26,000	74	146

Technical features – Water heating series

Model	Length (mm)	Max recommended installation height* (m)	Fan electrical supply (Volt/Hz/ph)	Fan power (W)	Fan current (A)	Air flow (m^3/h)	Sound level** (dB(A))	Weight (kg)
ACAXI120W-I	1200	6	400/50/3	960	1.96	8,400	68	80
ACAXI180W-I	1800	6	400/50/3	1,440	2.94	12,600	70	110
ACAXI240W-I	2400	6	400/50/3	1,920	3.92	16,800	72	150
ACAXI300W-I	3000	6	400/50/3	2,400	4.9	21,000	74	180

Model	Max air flow (m^3/h)	***Water temperature 80/60°C				***Water temperature 60/40°C				***Water temperature 45/35°C			
		Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)	Heating output (kW)	Air outlet temperature (°C)	ΔP (kPa)	Water flow (m^3/h)
ACAXI120W-I	8,400	34.26	30	5.4	1.5	18.51	24.4	1.8	0.8	13.5	22.7	3.7	1.2
ACAXI180W-I	12,600	58.26	31.5	18.4	2.6	33.22	25.7	6.8	1.4	23.67	23.5	13.4	2.1
ACAXI240W-I	16,800	80.13	32	14.2	3.5	45.51	26	5.2	2	32.49	23.7	10.3	2.8
ACAXI300W-I	21,000	103.78	32.5	26.6	4.6	59.93	26.3	10	2.6	42.44	24	19.6	3.7

All data are referred to maximum air flow.

** The installation height is only indicative and refers to installations in non-windy environments without negative pressure differences.*

*** Free field sound pressure level measured at 3 meters at maximum speed.*

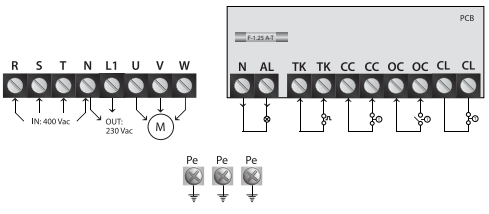
****Air inlet temperature: 18°C.*

ΔP: pressure drop water side.

Control – Water heating/Ambient

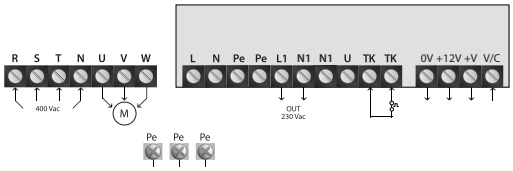
TDDSD autotransformer control with 5 fan speed steps and high/low speed switching

- Two speeds selectable through external selector
- Thermal contacts TK for motor protection
- Automatic reset after a power failure
- Two start/stop contacts for remote ON/OFF switching
- Contact for high/low speed switching
- Alarm output
- Indicator lights (LED) for start/stop



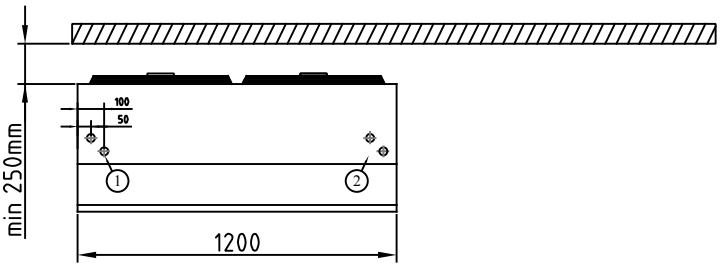
TDDP autotransformer control with 5 fan speed steps and 0-10V input

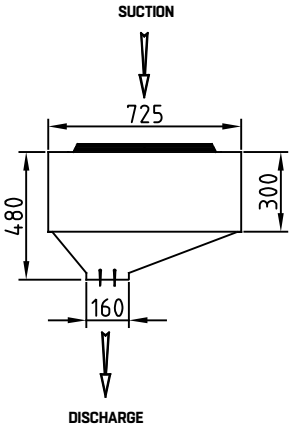
- Output voltage control through 0-10V signal
- Thermal contacts TK for motor protection
- Indicator lights (LED) for start/stop
- Unregulated output 230V
- BMS enable/disable contact



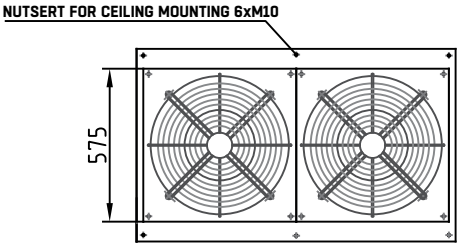
Dimensions (mm) - horizontal version

AC-Axiplus 1200

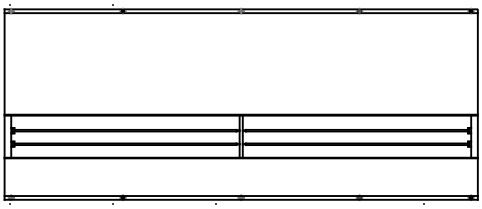


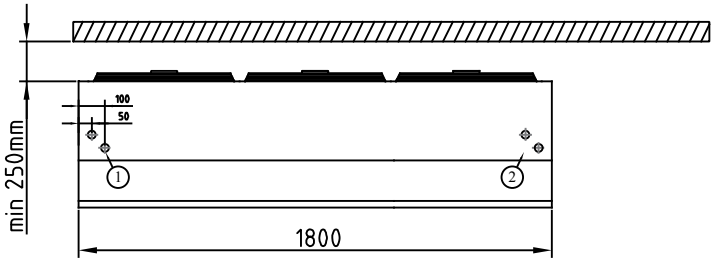


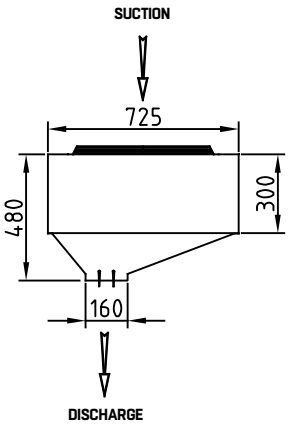
Water connections side 1) standard; 2) on request
Water connections sizes: 1”



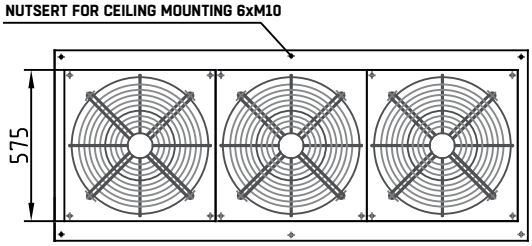
AC-Axiplus 1800





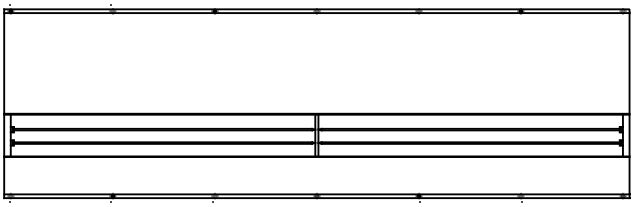


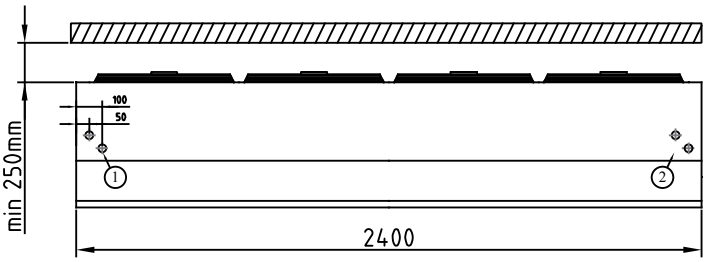
Water connections side 1) standard; 2) on request
Water connections sizes: 1”

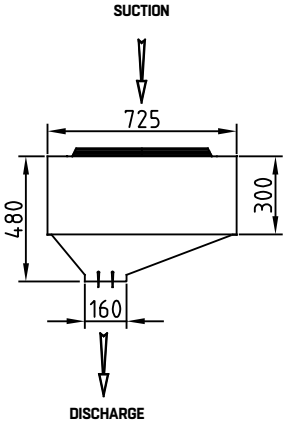


Dimensions (mm) - horizontal version

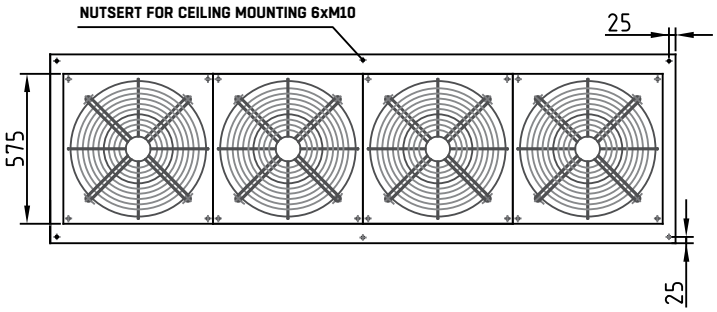
AC-Axiplus 2400



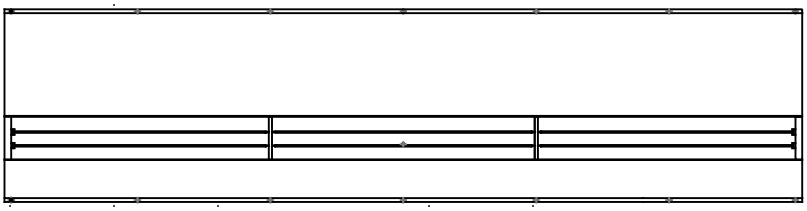


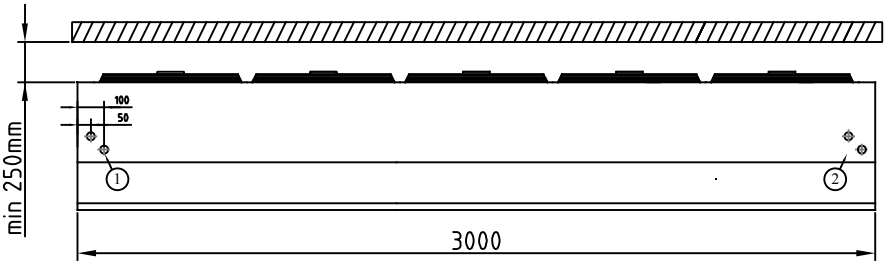


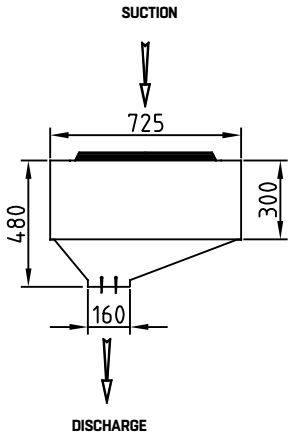
Water connections side 1) standard; 2) on request
Water connections sizes: 1”



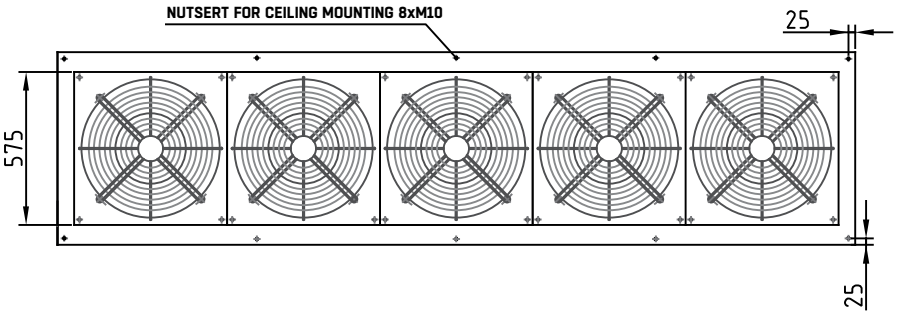
AC-Axiplus 3000



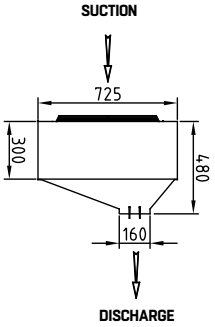




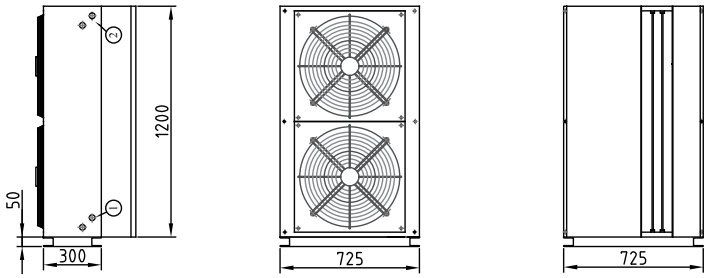
Water connections side 1) standard; 2) on request
Water connections sizes: 1”



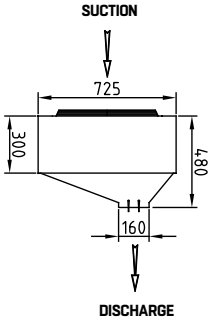
AC-Axiplus 1200



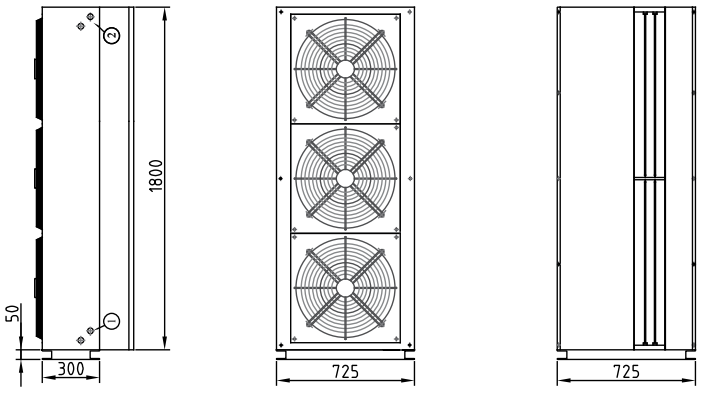
Water connections side 2) standard; 1) on request
Water connections sizes: 1”



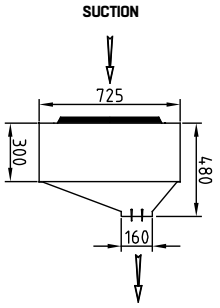
AC-Axiplus 1800



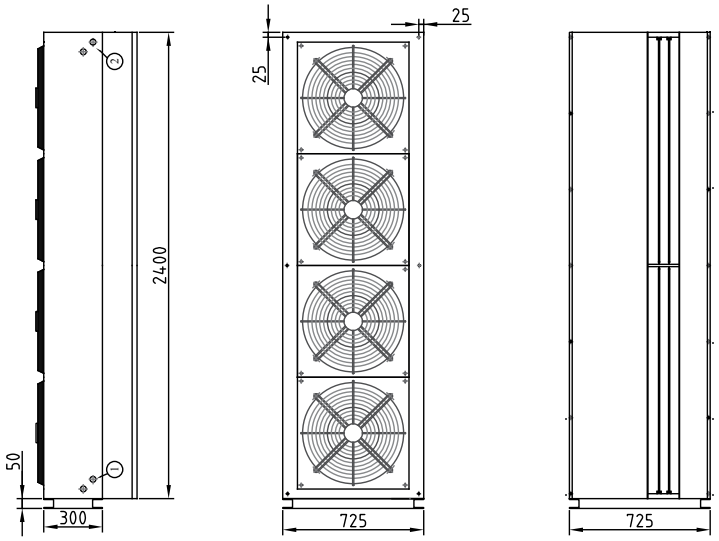
Water connections side 2) standard; 1) on request
Water connections sizes: 1”



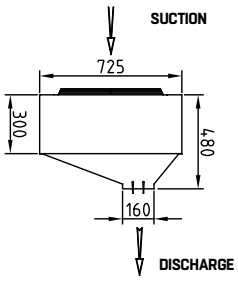
AC-Axiplus 2400



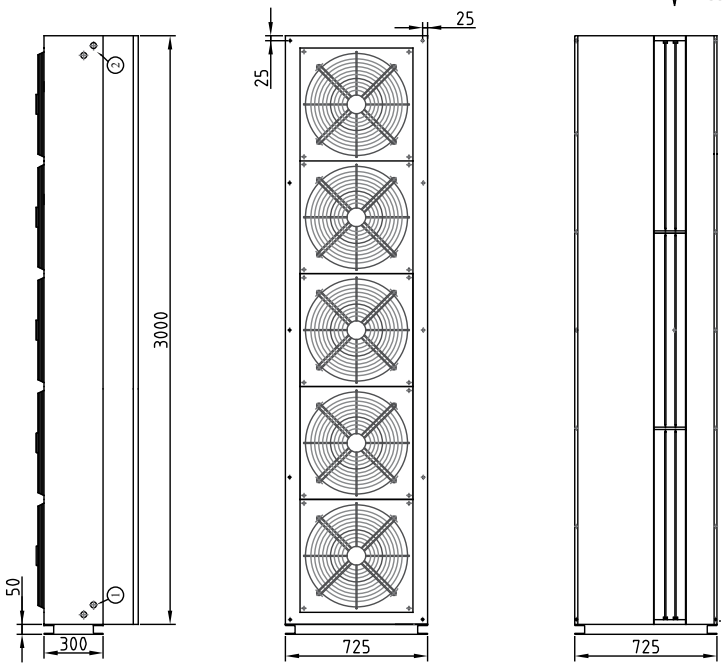
Water connections side 2) standard; 1) on request
Water connections sizes: 1"



AC-Axiplus 3000



Water connections side 2) standard; 1) on request
Water connections sizes: 1"



Controls and accessories

R510 - 5 STEPS MANUAL CONTROL

included for the ambient version and water heating version, connectable to 10 air curtains at the same time.

- 5- steps air flow manual control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact for operating state report (e.g. door contact, thermostat) with programmable switch-off timer
- Summer/Winter selector switch to enable the water coil valve
- Potential free contact for operating state report (e.g. supervision system signal)

R515 - 5 STEPS AUTOMATIC CONTROL

optional for ambient version or water heating version, connectable to 10 air curtains at the same time

- 5-steps air flow manual control
- 1 ON/OFF primary potential free contact to enable the general air curtains operating state (e.g. BMS system)
- 2 ON/OFF secondary potential free contacts, air curtains management functioning combined action. E.g:
  - open door- maximum speed (door contact signal)
  - closed door- minimum speed (door contact signal) and ON/OFF room thermostat
- Summer/Winter selector switch to enable solenoid valve
- Potential free contact for operating state report (e.g. supervision system signal)
- Potential free contact for supervision BMS system failure report (optional)

R310E - 3 STEPS MANUAL CONTROL

included for electric heating version, connectable to ten air curtains at the same time

- 3- steps air flow manual control and 3-steps electric heating control
- 1 ON/OFF primary potential free contact to enable air curtains general operating state (e.g. BMS system)
- 1 ON/OFF secondary potential free contact to turn on or switch off electrical resistors (e.g. room thermostat signal)
- Potential free contact for operating state report (e.g. supervision system signal)

THERMOSTAT TERM

Room thermostat can be used for:

- ON/OFF air curtain
- ON/OFF 3-way valve for water heating coil

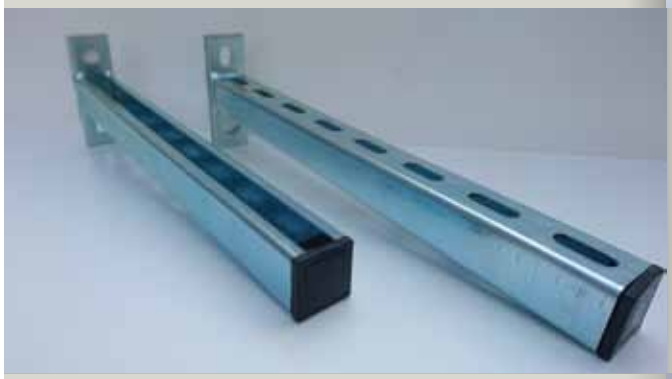
Controls and accessories

MAGNETIC DOOR CONTACT DC.MAG

MECHANICAL DOOR CONTACT DC.MEC

3-WAY VALVE ZV3

for air curtains with water heating coils



WALL BRACKET WB

CEILING MOUNTING KIT CS

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