

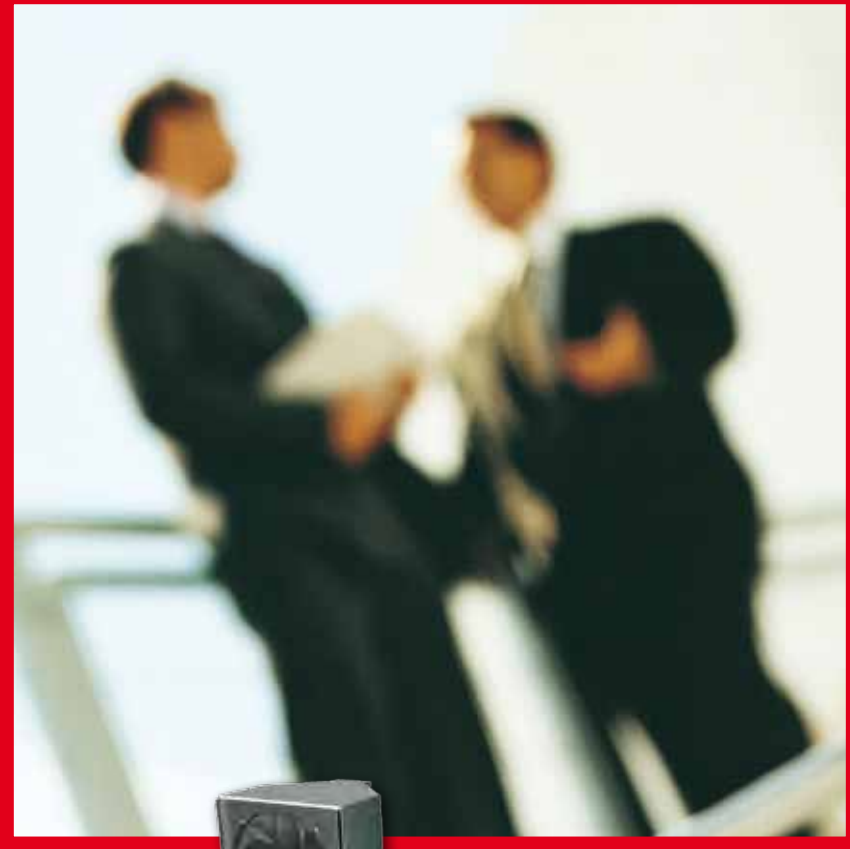


ATC Heating Devices



ATC Heating Devices

Heating Devices range from heating batteries, hot water air curtains to insulated ducts and rigid foam boards. They have a wide variety of air conditioning applications such as restaurants, small offices, hotels, schools and libraries. The heating battery product line covers a wide choice of models with a capacity range from 1.01kW to 24kW. While the air curtains have a power range from 6kW to 61.9kW.



Suspended water heater

FWW

The hot water heater is attached to a wall using brackets. The direction of air flow (upwards or downwards) is regulated by means of adjustable flaps. FWW is used for air heating within buildings.

It's housing is made of galvanized steel and powder coated painting RAL 7040. The heating element is made of copper tubing and aluminium plates.

The fan is mounted on a shaft, uses single-phase electric current. The heater is attached to a wall using brackets. The brackets can be dismantled if necessary.

Accessories:

- 2 or 3-way regulation valves, type **N2D** or **N3D**
- Thermal actuator, type **T24 / T230** or **T24SR**
- Controller, **Optigo 5** or **Optigo 10**

	Pmax[kW]		
	Tw 70/50°C	Tw 80/60°C	Tw 90/70°C
FWW 2000	26.70	30.80	34.90
FWW 4000	46.30	53.50	60.70
FWW 6000	64.70	74.70	84.60
FWW 9000	88.40	101.90	115.30

Hot water heating batteries

CWW

Circular hot water heating battery, easy to install and with a removable service panel allowing access for cleaning the coil. Casing made of galvanised sheet steel, the circular connections are equipped with an EPDM rubber. The coil consists of copper tubes with aluminium fins.

The heating coil shall be out of copper tubes with aluminium fins, the copper tubes shall be positioned zig-zag this for an effective and economic heat transfer from the circulated heating medium to the air. The casing of the heating coil shall be made of galvanised steel sheet with circular connections with on each connection a solid EPDM rubber. The casing of the heating coil shall have a removable service panel this to inspect the coil and clean it.

	Pmax[kW]		
	Tw 60/40°C	Tw 80/60°C	Tw 90/70°C
CWW 100	1.01	1.80	2.10
CWW 125	1.30	2.30	2.70
CWW 160	3.40	5.10	5.90
CWW 200	4.40	6.60	7.70
CWW 250	7.20	10.90	12.20
CWW 315	11.60	17.50	19.90
CWW 400	18.10	27.10	30.60
CWW 500	24.20	36.30	41.04

Mounting:

- Between 2 circular ducts

Water connections:

- CWW 100 to 200: 3/8"
- CWW 250 to 400: 1/2"
- CWW 500: 3/4"

Accessories:

- 2 or 3-way regulation valves, type **N2D** or **N3D**
- Thermal actuator, type **T24/T230** or **T24SR**



Electrical heating batteries

CVA

CVA - M

Circular electrical heating battery with on-off regulation, maximal outlet temperature of 50°C. The minimal air velocity of 1,5 m/s through the battery is required. Available in diameter 100 up to 400 mm and in power range from 300 up to 9000 W. Operating voltage 230 or 400 V AC. It is also possible to combine this battery with a triac controller (for proportional control). Possible accessories are triac controllers, type **PULSER** or **TTC**.

CVA - MPI

Circular electrical heating battery with built-in pulser for proportional control, the setpoint of the temperature is set by means of a potentiometer on the battery, maximal outlet temperature of 50°C. The minimal air velocity of 1,5 m/s through the battery is required. Available in diameter 100 up to 400 mm and in power range from 300 up to 9000 W. Operating voltage 230 or 400 V AC. To measure the desired temperature it is required to connect an external NTC sensor. Possible accessories are duct temperature sensors, type **TG-K330** and room temperature sensors, Type **TG-R530**.

CVA - MPE

Circular electrical heating battery with built-in pulser for proportional control, the setpoint of the temperature is set by means of an external room temperature sensor (TG-R430), maximal outlet temperature of 50°C. The minimal air velocity of 1,5 m/s through the battery is required. Available in diameter 100 up to 400 mm and in power range from 300 up to 9000 W. Operating voltage 230 or 400 V AC. Possible accessories are room temperature sensors to set temperature setpoint, type **TG-R430** and duct temperature sensors, type **TG-K330**.

Application:

- Pre-heater
- Zone heater
- Constant supply air temperature

Mounting:

- Between 2 circular ducts

Electrical heating batteries

CVE

CVE - M

Circular electrical heating battery with on-off regulation, maximal outlet temperature of 40°C. The minimal air velocity of 2 m/s through the battery is required. Available in diameter 100 up to 630 mm and in power range from 300 up to 24000 W. Operating voltage 230 or 400 V AC. It is also possible to combine this battery with a triac controller (for proportional control). Possible accessories are triac controllers, type **PULSER** or **TTC**.

CVE - MP

Circular electrical heating battery with built-in pulser for proportional control, the setpoint of the temperature is set by means of a potentiometer on the battery or by means of an external room thermostat, maximal outlet temperature of 40°C. The minimal air velocity of 2 m/s through the battery is required. Available in diameter 100 up to 630 mm and in power range from 300 up to 24000 W. Operating voltage 230 or 400 V AC. To measure the desired temperature it is required to connect an external sensor. Possible accessories are duct temperature sensors, type **CKT**, room temperature sensors, type **CPT** and room temperature sensors, with external setpoint, type **CPTO**.

Application:

- Pre-heater
- Zone heater
- Constant supply air temperature

Mounting:

- Between 2 circular ducts

Specifications:

- Two-stage overheat protection : the first stage switches on when the temperature reaches 45°C (resets automatically), the second stage switches on when the temperature reaches 120°C (is reset manually with pushbutton on the casing)
- IP 43



Electrical heating batteries

RVE

Rectangular electrical heating battery, with a 20 mm frame to easy connect to a rectangular duct. The maximal temperature outlet is 40°C. Available from 6 kW up to 30 kW in 3-phase 400V. Casing made of aluzinc coated steel, with rubber rings on either side for air tightness. Heating elements made of stainless steel ASI 304.

Accessories:

- Triac controllers, Type **TTC25 / TTC40**
- Duct temperature sensors, Type **TG-K330**
- Room temperature sensors, Type **TG-R530**
- Room temperature sensors, possibility to set external setpoint, Type **TG-R430**

Specifications:

- Two-stage overheat protection : the first stage switches on when the temperature reaches 45°C (resets automatically), the second stage switches on when the temperature reaches 120°C (is reset manually with pushbutton on the casing)

Application:

- Pre-heater
- Zone heater
- Constant supply air temperature

Mounting:

- Horizontal or vertical mounting in rectangular duct systems



Fan box with electrical heater and filter

BTL

Fan box with electrical heater and filter of class EU5. The casing is made of galvanized sheet steel with 50mm insulation with mineral wool. It consists of an easily removable cover fastened with four locks, electrical heater up to 6kW and centrifugal fan with forward curved blades. The BTL air handling unit is used for air input in small rooms.

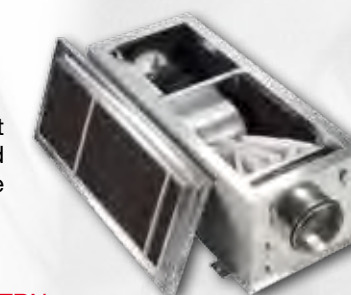
Motor:

- External rotor motor with thermal protection
- Supply: 230Vac 1ph
- Protection IP44 - Insulation class B
- Suitable for speed regulation

Accessories:

- Speed controller type **BTRN**
- Triac controller type **PULSER**
- Duct temperature sensor type **TG-K330**
- Room temperature sensor type **TG-R430**
- Pressure switch type **DTV**

	P [W]	Q _{max} [m³/h]	I [A]	Lpa @ 1m [dB(A)]
BTL 125/20	150	5050	0.65	41
BTL 160/20	230	830	1.70	45
BTL 160/50	230	830	1.70	45
BTL 200/20	285	1075	1.26	46
BTL 200/60	285	1075	1.26	46



Air curtains Economic A

ACA-A

Air curtain suitable for doorheights up to 3 meters. To get the best airflow the air curtain is equipped with exhaust jets. The air curtain is standard delivered with controller on the body of the air curtain but also with an infra-red remote control to control the fan in 3 speeds. Available in lengths 600m, 900m, 1200m, 1800m.

ACA-A-F

Air curtain suitable for doorheights up to 3 meters. To get the best airflow the air curtain is equipped with exhaust jets. The air curtain is standard delivered with controller on the body of the air curtain but also with an infra-red remote control to control the fan in 3 speeds. Available airflows from 700m³/h to 1400m³/h. Supply voltage: 230 V AC - 1 ph, 1 heating steps.

ACA-A-S

Air curtain with 3-phase electrical wire heater The air curtain is standard delivered with an infra-red remote control to control the fan in 3 speeds, and switch the electrical wire heater on or off. Available airflows from 700m³/h to 2100m³/h. Supply voltage: 230 V AC - 1 ph.

ACA-A-E

Air curtain without heater. Available airflows from 700m³/h to 1400m³/h and a power range of 4kW to 12kW. Supply voltage: 400 V AC - 3 ph, 1 heating step.

Application:

- Small shops
- Small entrances
- Restaurants

Mounting:

- Wall
- Ceiling

Colour:

- RAL 9010

Material:

- Painted steel casing
- IR remote control in PVC



Air curtains Economic B

ACA-B

Air curtain with adjustable exhaust lamellas for door heights up to 4,5 m with a wired 3-speed remote control. The air curtain is standard delivered with a mounting console for easy installation. Available in lengths 1000m, 1500m, 2000m.

ACA-B-E

Air curtain with a 1-step electrical heater. Available airflows from 1350m³/h to 2700m³/h and a power range of 6kW to 12kW. Supply voltage: 400 V AC - 3 ph, 1 Heating Step.

ACA-B-F

Air curtain with a 2-step electrical heater. Available airflows from 1300m³/h to 2550m³/h and a power range of 9kW to 18kW. Supply voltage : 400 V AC - 3 ph, 2 Heating steps.

ACA-B-V

Air curtain with a waterheater. Available airflows from 1100m³/h to 2200m³/h and a power range of 7.3kW to 20.1kW. Supply voltage : 230 V AC - 1 ph.

ACA-B-S

Air curtain without heater. Available airflows from 1500m³/h to 2950m³/h. Supply voltage: 230 V AC - 1 ph.

Application:

- Small shops
- Small entrances
- Restaurants

Mounting:

- Wall
- Ceiling

Colour:

- RAL 9010

Material:

- Steel casing
- Remote control in PVC electric box for surface mounting



Air curtains

ACA-O

Air curtain with adjustable exhaust jets for door heights up to 4 m with electrical heater. The air curtain is standard delivered with an electronic control panel where there are indications for service and door switch status. It is possible to control up to 6 air curtains with only one control. Available in lengths 1000m, 1500m, 2000m.

ACA-O-E

Optimal air curtain with electrical heater, available airflows from 2350m³/h to 4700m³/h and a power range of 9.5kW to 19kW. Supply voltage: 400 V AC - 3 ph, 2 heating steps.

ACA-O-V

Optimal air curtain with waterheater, available airflows from 2150m³/h to 4300m³/h and a power range of 14.1kW to 36.2kW. Supply voltage: 230 V AC - 1 ph.

ACA-O-S

Optimal air curtain, available airflows from 2400m³/h to 4800m³/h. Supply voltage: 230 V AC - 1 ph.



Industrial air curtains

ACA-I

The air curtain can be installed horizontally as well as vertically. The air curtain is suitable for openings up to 7 metres, so when the air curtain is installed vertically on both sides of the door opening it can cover an opening up to 14 metres. The fan is an 3-speed axial fan. Available in lengths 550m, 1500m, 2000m.

ACA-I-E

Industrial air curtain with electrical heater, available airflows from 3250m³/h to 10000m³/h and a power range of 6kW to 18kW. Supply voltage: 400 V AC - 3 ph.

ACA-I-V

Industrial air curtain with waterheater, available airflows from 2650m³/h to 8100m³/h and a power range of 9kW to 38.9kW. Supply voltage: 400 V AC - 3 ph.

ACA-I-S

Industrial air curtain without a heater, available airflows from 3500m³/h to 10200m³/h. Supply voltage: 400 V AC - 3 ph.



Air Curtains Standesse

ACA-S

Air curtain with adjustable exhaust lamellas for door heights up to 10.5 m and a wired 3-speed remote control. Available in lengths 1000m, 1500m, 2000m.

ACA-S-S

Air curtain without heater. Available airflows from 1690m³/h to 10200m³/h. Supply voltage: 230 V AC - 1 ph.

ACA-S-E

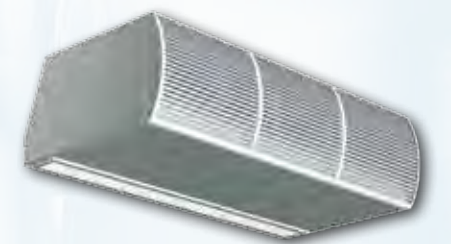
Air curtain with a 2-step electrical heater. The air curtain is fitted with the safety thermostat with automatic reset and emergency thermostat with manual reset. Available airflows from 1660m³/h to 4920m³/h and a power range of 9kW to 18kW. Supply voltage: 400 V AC - 3 ph, 2 heating steps.

ACA-S-W

Air curtain with a 2-step waterheater control with 3-row water exchangers. The exchanger is designed for the maximum operating water temperature of +100 °C and maximum operating pressure of 1.6 MPa. Available airflows from 1560m³/h to 4600m³/h and a power range of 16.9kW to 56.9kW. Supply voltage: 230 V AC - 1 ph.

ACA-S-V

Air curtain with a 2-step waterheater control with 2-row water exchangers. The exchanger is designed for the maximum operating water temperature of +100 °C and maximum operating pressure of 1.6 MPa. Available airflows from 4750m³/h to 9500m³/h and a power range of 21.9kW to 61.9kW. Supply voltage: 230 V AC - 1 ph.



Insulated flexible ducts

ISOFLEX

ISOFLEX is a fully thermally insulated duct consisting of an inner duct of the ALUFLEX type and a metalized polyester outer jacket. The pink fibreglass insulation has been developed especially for flexible ducting. It is used in ventilation, air conditioning, and air handling systems where high mechanical strength, temperature resistance, and high thermal insulating qualities are required.

ISOFLEX 25

ISOFLEX 25 consists of an inner duct of the ALUFLEX type and a metalized polyester outer jacket.

Specification

- Temperature range : From - 30°C till + 140°C
- Air velocity (max) : 30 m / sec (5900 ft / min)
- Operating pressure (max) : + 2500 Pa (250 mm WC)

ISOFLEX 250

ISOFLEX 250 consists of an inner duct of the ALUFLEX 112 type and a 2-layer aluminium seamless outer jacket.

Specification

- Temperature range: inner duct: from - 30°C till + 200°C, outer jacket: from - 30°C till + 140°C
- Air velocity (max): 30 m / sec (5900 ft / min)
- Operating pressure (max): + 2500 Pa (250 mm WC)

Composition ISOFLEX 25 & 250:

- Inner duct of the ALUFLEX type, consisting of 2 layers of 7µ aluminium each, and 2 layers of 12 µ polyester each, total thickness with glue: 48,5 µ
- Metalized polyester outer jacket, consisting of 2 layers of polyester of 12 µ each, reinforced with glass fibre wire, total thickness: 30 µ



Insulated flexible ducts

SONOFLEX

SONOFLEX is a thermally and acoustically insulated duct, consisting of a micro-perforated inner duct of the ALUFLEX type and a metalized polyester outer jacket. The pink fibreglass insulation has been developed especially for flexible ducting. It is used in ventilation, air conditioning, and air handling systems where high mechanical strength, temperature, fire-resistance, and thermal and sound attenuating qualities are required.

SONOFLEX 25

SONOFLEX 25 consists of a micro-perforated inner duct of the ALUFLEX type and a metalized polyester outer jacket. A polyester barrier is applied between the fibreglass insulation and the inner duct to avoid the diffusion of insulation particles in the air stream°C. Temperature range: From - 30°C till + 140°C.

SONOFLEX 250

SONOFLEX 250 consists of a micro-perforated inner duct of the ALUFLEX 112 type and a 2-layer aluminium seamless outer jacket. The SONOFLEX 250 duct is easy to install, either on circular or on oval connection parts. As the product does not contain PVC, no toxic vapours are released should fire occur. Temperature range: inner duct: from - 30°C till + 200°C, outer jacket: from - 30°C till + 140°C.

Specification:

- Air velocity (max): 25 m / sec (4912 ft / min)
- Operating pressure (max): + 1500 Pa (+ 150 mm WC)

Composition SONOFLEX 250:

- Micro-perforated inner duct of the ALUFLEX 112 type, thickness: 57 µ
- 2 layers of polyester, reinforced, 30 µ
- Fibreglass insulation:
 - Density : 15 kg/m³
 - Thickness: 25 mm
 - Thermal conductivity: 0,040 W/m-K according to ASTM C-177
 - Colour: pink
 - Fire safety: Class 1 according to UL 723 ASTM E-84

Composition SONOFLEX 25:

- Micro-perforated inner duct of the ALUFLEX type, consisting of 2 layers of 7 µ aluminium each, and 2 layers of 12 µ polyester each, total thickness with glue: 48,5 µ
- Metalized polyester outer jacket, consisting of 2 layers of polyester of 12 µ each, reinforced with glass fibre wire, total thickness: 30 µ
- Fibreglass insulation:
 - Density : 15 kg/m³
 - Thickness: 25 mm
 - Thermal conductivity: 0,040 W/m-K according to ASTM C-177
 - Colour: pink
 - Fire safety: Class 1 according to UL 723 ASTM E-84



Laminated aluminium flexibel ducts

ALUFLEX

The ALUFLEX is a fully flexible, light laminate duct with a steel spiral inserted between the different layers of the duct. It is used in ventilation, air conditioning, and air handling systems where a high mechanical strength, temperature and fire resistance is required.

ALUFLEX AA3

This flexible duct consists of 3 Aluminium-layers (7 micron), combined with 2 Polyester-layers (12 micron).

Specification

- Temperature range: from - 30 °C to + 140 °C
- Air velocity (max): 30 m/s
- Operating pressure (max 82°C): +1500 Pa up to Ø254, +1000 from Ø305 onwards

ALUFLEX 112

This flexible duct consists of 3 Aluminium-layers of 15 micron combined with 1 Polyester-layer of 12 micron.

Specification

- Temperature range: From - 30 °C till + 200 °C
- Air velocity (max): 30 m/s
- Operating pressure (max): + 2500 Pa

Composition ALUFLEX AA3

- 3 aluminium layers of 7 micron
- 2 polyester layers of 12 micron
- Total number of layers: 5
- Thickness: 45 micron
- 25mm (Ø82-90mm) or 36mm (Ø102-610mm)
- Colour: Aluminium

Composition ALUFLEX 112

- 3 layers of aluminium of 15 µ
- 1 layer of polyester of 12 µ
- Total thickness: 57 micron without glue
- Wire spacing: A steel spiral spring of different thicknesses and a pitch of 25mm (Ø82-90mm) or 36mm (Ø102-610mm)
- Colour: Aluminium



PIR-plates

PIR-ATC

Polyisocyanurate (PIR) rigid foam panel, 35kg/m³ or 40kg/m³. coated with centesimal aluminum foil on both sides, 60 microns or 80 microns. Suitable for the construction of ducts systems for the air distribution, Heating, Ventilation and Air Conditioning (HVAC) systems. Has an initial thermal conductivity of 0,022 W/m-K at 10°C, according to EN 12667 standard. The panel meets class M1 according to UNE 23727 Spanish national standard. The panel can be used constantly in a temperature range from -40° to +80°C without any substantial differences in the thermo-ventilating insulating specifications. The lineal thermal expansion coefficient has a value of 1 0-6 mm/mm·K

PIR-ATC 2035

Standard production thickness is 20 mm, within a tolerance range of +1,5 , -1 mm (tested according to EN 823 standard)

PIR-ATC 2045

Standard production thickness is 20 mm, within a tolerance range of +1,5 , -1 mm (tested according to EN 823 standard)

PIR-ATC 3035

Standard production thickness is 30 mm, within a tolerance range of +1,5 , -1 mm (tested according to EN 823 standard)





Thinking and acting in harmony

Air Trade Centre is a prominent supplier of Heating, Ventilation and Air Conditioning products (HVAC), active both within Europe and beyond. The strength of Air Trade Centre derives from our unique combination of people, knowledge, experience and technology. We provide customized advice and specialize in supplying HVAC equipment and components and consistently deliver high-quality HVAC solutions.

Air Trade Centre offers:

- One-stop-shopping
- A broad spectrum of more than 10.000 products of which 80% are available in stock
- Over 250 employees in 11 countries
- Company information in 6 languages
- An E-shop in 8 languages.

Our organization stimulates development and the sharing of technology. By allocating a fixed percentage of our income to internal and external training programs, Air Trade Centre aims to satisfy customers, employees and shareholders through our company's growth on the international HVAC market. **Durable** HVAC solutions are central to this. With this vision in mind, we have adopted a strategy designed to establish long-term relationships with the help of **Single Sourcing** and a broad, comprehensive product range.

Air Trade Centre believes in an organization of people who are unconditionally faithful and loyal to one another. Our personnel is persistently ambitious and resolute in their actions, which ultimately leads to greater feeling for and involvement with each other and the world around us. This is symbolized by the special qualities of the Crane, a strong, tranquil and majestic bird that for centuries has been a symbol of happiness, good health and long life in many cultures. The dancing Crane, our company's perfect metaphor for the harmony between people and technology.