

HEATING

PRINCIPLE

Temperature is one of the main factors that determine man's wellbeing in confined spaces. However, there are situations in which a permanent heating system is not provided or required, both due to the type and the frequency of use of the room. In these cases, it is essential to guarantee people's thermal comfort with versatile heating systems that can be used in any location and/or at any time, whether residential or industrial.

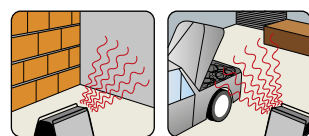
BENEFITS

Electrical heating meets this requirement and also has the important advantage of not resulting in gas emissions, in particular carbon dioxide. It is technically simpler than gas heating and easily lends itself to being managed automatically and the commissioning costs for electrical heating are considerably lower. From the point of view of the urban environment, for safety, versatility and comfort there is nothing better than warming yourself up with electricity: no fumes, no risk of explosions or toxic gases, no maintenance, very quick installation, highly responsive and the possibility to adjust the heating with precision over time and space:

✓ The industrial convection heaters of the VOLCANO R and PRO Series and residential convection heaters of the CALDO Series from Maico Italia - Elicent® create heat quickly and do not require particular maintenance. They offer ease of transport and can be adjusted/programmed.

✓ The infrared lamps of the CALDO Series from Maico Italia - Elicent® transmit heat uniformly into the surrounding environment, keeping the relative humidity constant in all of the environment, thereby promoting thermal wellbeing; all of this in just a few moments, without noise, and obviously with light radiation. In this way it is possible to obtain more pleasant heating at a relatively low environmental temperature, with energy savings too.

COMMERCIAL / INDUSTRIAL



RESIDENTIAL



HYGIENE

PRINCIPLE

The effectiveness of hand drying is an essential aspect for reducing the transmission of bacteria and other micro-organisms, as it is more likely to occur with wet skin than dry skin; in this respect certain studies have discovered that six times more bacteria grow on the surface of paper towel dispensers than on air-powered devices. Paper towels are also systematically used in excess with consequent disposal and recycling expenses.

BENEFITS

Electric hand dryers and hair dryers offer the advantage of greater hygiene for the people using them, as direct contact is avoided and is replaced by a jet of hot air that is activated with a button or the photocell, drying the hands or hair while also giving a sensation of softness and cleanliness.

Their operation is ensured 24/7 and paper waste is avoided when using these devices instead.

Rooms in which they are installed are certainly cleaner and tidier, and for high-traffic areas they provide anti-theft and anti-vandalism peace of mind:

✓ In the next generation hand driers of the ECOJET Series from Maico Italia - Elicent® the jet of hot air is replaced with an air blade, which is much more powerful and comes out of several slots, ensuring quick drying in just 8 seconds; although the ECOFLOW Series has a traditional automatic functioning, being equipped with a high speed motor it ensures drying in just 12 seconds. Both series are free from electrical resistance and optimise electricity consumption, and are therefore particularly ecological

✓ The HD and HR Series from Maico Italia - Elicent® guarantee the advantages mentioned above and offer particular cost savings



Hands dried in 8 seconds



The headquarter of Maico Italia Spa, Lonato del Garda (Brescia)



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Member of:



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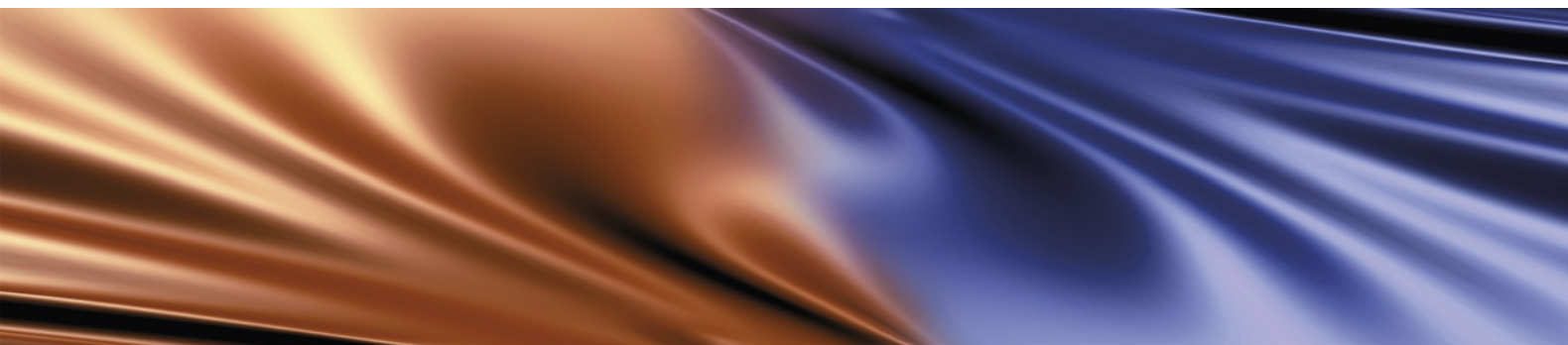
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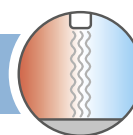
advanced ventilation

Dal 1970 la ventilazione made in Italy

GD E1091 - Rev. 07/2021



AIR CURTAINS



VENTILATION

HEATING



HYGIENE



AIR CURTAINS



PRINCIPLE

In buildings where the entrance doors are continuously opened and closed it is useful to block the inflow of undesired outdoor air during the winter period and to protect indoor spaces from warm air entering during the summer period. In fact, due to the temperature difference that is generated, there is a progressive loss of power in the temperature control system, as well as notable humidity imbalances and discomfort for the public, which reduces their time spent in the establishment.

Furthermore, in commercial places with a high customer inflow and rotation, the presence of traditional entrance doors may constitute a psychological barrier for the customers, which operators obviously wish to avoid (such as department stores, supermarkets, bars, restaurants, boutiques).

BENEFITS

To obtain a notable energy saving, keeping warm or cool air inside commercial and non-commercial premises, and contribute to making the indoor air healthier by not allowing smog, unpleasant odours, dust, pollen and insects to enter, air curtains come into play.

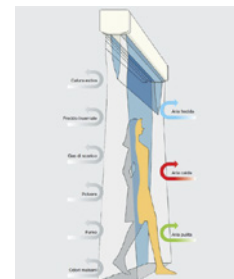
Air curtains are devices that enable the formation of an invisible vertical wall of air between the indoor area of premises (generally heated or air conditioned) and outdoors, without limiting access by people or vehicles. Depending on the season, the air is mixed in different temperatures and at different supply speeds, in order to reach the optimal conditions for people to pass through. For the reason they are particularly suited to being used in commercial locations, such as department stores, bars and shops, located either inside or outside of shopping centres, and in places where time that the doors are open is particularly significant for the indoor air conditioning systems (receptions, warehouses, gyms).

The protection offered to the environment enables customers to enter and exit at will, without impeding their path and also maximising visibility of the environment while increasing indoor comfort.

Maico Italia - Elicent® air curtains:

- ✓ ELDOORTZ - Tangential
- ✓ ELDOOR CF - Centrifugal

are the most innovative and easy to install product on the market to create situations of safe wellbeing and energy saving, drastically reducing energy consumption for heating and cooling, while also protecting the quality of the indoor air.



VENTILATION

PRINCIPLE

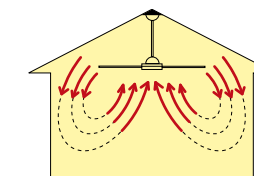
In winter, in heated environments, the less dense hot air tends to accumulate in upper areas due to convection while in summer the gas emissions linked to the large quantities of energy consumed by air conditioning systems require a more attentive and aware attitude towards the environment.

BENEFITS

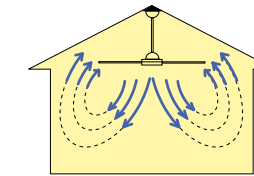
Ceiling fans are an excellent solution for cooling and heating environments. In winter fans installed on the ceiling are able to destratify the warm air accumulated in the upper areas of the room and to distribute it homogeneously with a consequent energy recovery.

In summer it is not only a reduction in temperature that contributes to cooling but also optimal air circulation: a ceiling fan spinning at low speeds increases the sensation of coolness, makes the air more breathable and reduces the energy costs arising from excessive use of the air conditioning system. Unlike air conditioners, ceiling ventilation does not alter the temperature and humidity present in the environment and, if used in combination, enables the cooling potential to be fulfilled, allowing the system to be switched on for a less period of time and therefore reducing electricity consumption. It is therefore a simple solution to the energy saving requirement in rooms, industrial or sports environments, and in commercial spaces:

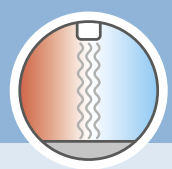
✓ MP800 destratifiers and POLAR reversible ceiling fans from Maico Italia - Elicent® meet these functionality requirements and are extremely easy to install.



WINTER
(indirect ventilation)



SUMMER
(direct ventilation)



AIR CURTAINS



ELDOOR TZ

Tangential air curtains

- 3 sizes: 90, 120 or 150 cm width
- **Air velocity 11 m/s**
- **Installation height: 2,3÷3 m**
- 2 speeds (with LED signal)
- Remote controller included
- Single-phase power supply
- Stainless steel and varnished metal housing
- Airflow orientation through deflectors
- Can be coupled with the door magnetic contact (supplied as accessory) for automatic on/off running
- High efficiency and silent running
- Easy to install thanks to the fixing bracket (included)
- **Inlet front side allows an installation close to the ceiling**
- Supplied with connexion cable and plug (TYPE L, 3 poles, 10A)



ELDOOR CF

Centrifugal air curtains

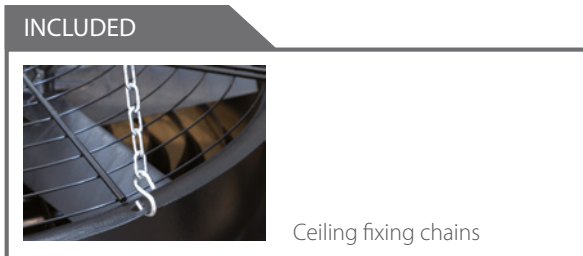
- 3 sizes: 90, 120 or 150 cm width
- **Air velocity 14,5 m/s**
- **Installation height: 3÷3,5 m**
- 2 speeds (with LED signal)
- Remote controller included
- Single-phase power supply
- Stainless steel and varnished metal housing
- Airflow orientation through deflectors
- Can be coupled with the door magnetic contact for automatic on/off running (supplied as accessory)
- High efficiency and silent running
- Easy to install thanks to the fixing bracket (included)
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VENTILATION



MP800



- Air scatter ideal for large heated industrial or sport premises
- High energy saving benefits in winter as in summer
- Diameter impeller: 800 mm
- Supplied with ceiling fixing chains
- Robust industrial construction: ring deflectors in steel sheet with epoxy paint and impeller in technopolymer with aluminium hub
- Single (230V) or three-phase (400V) motors, suitable for continuous running
- Speed controllable
- Each scatter covers a surface of 200 m²

Super POLAR HVLS



- Ceiling fans High Volume Low Speed (HVLS) with 5 aluminium blades Selig airfoil type
- Ideal for ventilating large residential, commercial or industrial premises
- Designed to deliver very high flow rates at low speed with reduced consumption and low noise emissions, preserving the comfort of occupants and maximizing the efficiency of the heating system
- Available in sizes 3,4,5,6,7 meters
- EC brushless motor
- Integrated inverter
- Ventilated area up to 1850 m²
- Airflow from 280.000 to 850.000 m³/h

POLAR Evolution



POLAR WITH LIGHT KIT

- Reversible ceiling fans
- Available diameters: 90, 120, 140, 150 cm
- Rod length: 45 cm as standard. Other lengths available as accessory: 30 or 90 cm
- Blades made in electrogalvanized steel sheet with anti-scratch and antirust paint
- Silent running, suitable for night operation
- The reversibility of the airflow from the floor towards the ceiling allows a winter use of the fan and an optimization of the heat distribution in the ambient
- Reversibility settable directly on the fan

ACCESSORIES FOR POLAR



CONTROLLERS



HEATING



Industrial



VOLCANO R

- Heaters ideally suited for heating small and medium sized industrial premises
- 2 models: 3,3 or 5 kW
- Manufactured in rugged steel cabinet with strong safety insulated handles
- Encapsulated stainless steel heating elements that are extra-insulated from the cabinet
- Provided with safety thermostat which guards against overheating and ensures that fire hazard does not arise
- Provided with room thermostat to maintain the desired temperature
- Selectable heating effect, between ½ and 1/1 through the selector switch
- The 5 kW model is provided with a CEE plug of 16A, 5 poles, IP44 while the 3kW model is provided with a Schuko plug of 16A IP44.

Residential



CALDO BAGNO 2000

- Compact and oscillation heater 24h programmable (with intervals of 30 minutes)
- 4 position switch: Off / cold air / Hot air 1000W / Very hot air 2000W
- Adjustable ambient thermostat
- Body in self-extinguishing plastic material
- Double insulation
- Protection IP21
- Heated area: 20 m²



CALDO 500

- Antifreeze heater for wall installation
- Adjustable ambient thermostat
- Double insulation
- Provided with Schuko plug
- Armored resistance



VOLCANO PRO

- Heaters ideally suited for heating medium sized industrial premises
- 2 models: 6 or 9 kW
- Very compact and unique dimension for both models
- Housing in steel sheet
- Provided with delay start and delay stop functions, settable on the panel
- Provided with a cooling down post ventilation function (max 10 minutes)
- Provided with a CEE plug of 16A, 5 poles, IP44



CALDO TURBO 2000 TECH

- Convector heater using natural convection
- Electronic control and remote controller to manage the stand-by function and the ventilation level (3 settings: Eco 750W / Comfort 1250 W / Rapid 2000W)
- Antifreeze function
- Temperature regulation: 5-37°C
- Programmable timer up to 15 hours
- Turbo function to direct the heat flow towards
- Backlit display in blue which shows the selected functions and the ambient temperature
- Anti-tip switch
- Integrated side handles
- Body in painted steel
- Double insulated
- IP20 protection
- Heated area: 20 m²



CALDO TURBO / CALDO 2000

- Convector heater using natural convection
- Model CALDO TURBO provided with a frontal grille to direct the heat flow forward
- Adjustable ambient thermostat
- Antifreeze function
- Can be wall-mounted (wall installation kit supplied)
- Body in painted steel
- Double insulated
- IP20 protection
- Heated area: 20 m²

- **Range:**
- **CALDO 2000:** one model including 3 heating levels: 750 / 1250 / 2000W
- **CALDO Turbo:** 3 models with 3 heat setting, each: **CALDO Turbo 1000:** 350 / 650 / 1000W **CALDO Turbo 1500:** 500 / 1000 / 1500W **CALDO Turbo 2000:** 750 / 1250 / 2000W (timer version available)



CALDO LAMP 1500 GOLD

- Radiant heater for outdoor and indoor installation
- Halogen golden resistance of 1500W
- Body in aluminium
- 0/1 pull cord switch
- Provided with wall fixing kit
- IP55 protection heated area: 15 m²



CALDO LAMP 1500

- Radiant heater for outdoor and indoor installation
- 3 quartz heaters of 1500W (500+500+500)
- Pull cord selection switch
- Wall fixing bracket offering 4 orientations
- Body in steel sheet, front cover in silver paint
- IP24 protection
- Heated area: 18 m²



HYGIENE



ECOJET



Ecological and high speed hand driers

- **New generation and exclusive design "hands-in" models of hand-driers**
- Provided with 4 air scatterers and 2 IR sensors for instant hand detection
- Low energy consumption thanks to the absence of the heating element
- **Ultra-fast drying in 8 seconds**
- Cover in anti-scratch ABS and aluminium impeller
- High speed and power adjustable class F motor
- Internal surface and water tank coated with Microban antimicrobial and antibacterial protection
- Provided with water tank easily removable for cleaning
- Available in white or satin grey finish

ECOFLOW



- Energy efficient antivandal hand-driers
- Compact, one-piece steel cover
- IR sensor operated for a complete automatic operation
- Low energy consumption thanks to the absence of the heating element
- Ultra-fast drying in 8-12 seconds
- High speed and power adjustable class F motor
- Available in white or steel finish

Antivandal hand-driers



- Compact, steel one-piece cover white or INOX finish epoxy coated and anti-scratch painted, 1,5 mm thick
- Ideal for high traffic facilities
- Hot airflow (53°C) at high speed (96 km/h) for a complete drying in 20-25 seconds
- Cover provided with 2 vandal-proof lock screws
- Chrome-plated 360° revolving vandal-resistant nozzle for hand and face drying
- Fire-resistant UL94-V0 impeller casing
- Available in Manual or Automatic versions, both in white or INOX finish

HD 300 Automatic

- **Sensor operated** (adjustable through internal trimmer) Optimized energy consumption: immediate stop after the hands are removed.



HD 100

HD 300 Manual

- **Push-button activation** (electronic timer with a 35 seconds cycle)

Hand drier Classic

- Compact, one-piece cover made of UV resistant ABS white plastic, 3 mm thick
- Housing and impeller in fire-resistant ABS plastic UL 94-V0
- Warm airflow (52°C) at high velocity (65 km/h) for a quick drying in approximately 35 seconds
- Available in manual or automatic versions.

Hair Dryers

HR 100

- Wall-mounted HAIR DRYER
- Elegant and compact design
- White ABS plastic one-piece cover, 3 mm thick, impact-resistant and UV protected
- Automatic activation
- Automatic activation

ECODRYER

- Wall-mounted HAIR DRYER
- Cover in INOX AISI 304 with white epoxy coated and anti-scratch paint 1,5 mm thick
- Automatic activation
- Adjustable power and air temperature

Hand sanitizer dispenser



ECOCLEAN

- Automatic hand sanitizer dispenser provided with IR sensor
- Suitable for soap or sanitizing gel
- High capacity tank: 1 L
- Flexibility of use and positioning
- Battery powered
- Wall installation
- Available with floor or desk stand