

PAEC  
2500

FRICO



## Stylish air curtain with EC motor and integrated controls, for cold rooms

PAEC2500 protects cold and freezer rooms efficiently at very low operating costs and can give energy savings of up to 85%. The stepless control allows precise adjustment, which means that PAEC is the perfect choice for cold and freezer room applications and also for use in air conditioned premises, for example, to separate the outside from the inside.

### Energy efficient and sustainable

The air curtain is equipped with EC motors that are up to 50% more energy efficient than traditional AC motors, and have a lower weight which makes for easier installations and greener transports.

### Integrated control




The air curtain has stepless control using an internal or external potentiometer (accessory).

### High performance

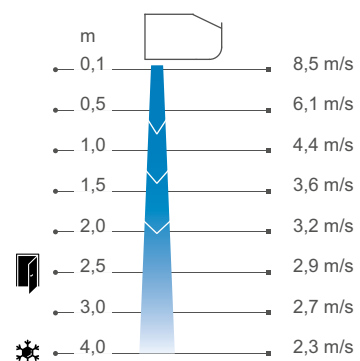
Frico air curtains are developed and manufactured in Sweden. The air curtains are tested in one of the most modern and advanced air and sound laboratories in Europe which means that we can guarantee a high performance product.

### PAEC2500



-  Ambient (without heat)
-  Installation height for cold storage: up to 4 m
-  Recommended installation height for entrances: 2,5 m

### Air velocity profile



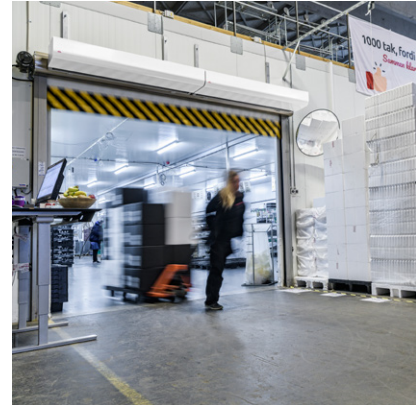
Measurements according to ISO 27327-1. Average values for products in the series.

PAEC2500

# Frico's Thermozone technology optimizes the air curtain



Frico air curtains create an invisible barrier at openings and doors which separates different temperature zones without limiting access for people and vehicles. Thermozone technology creates a highly uniform air barrier with a perfect balance between air volume and air velocity, regardless of whether it is the heat or the cold that you want to keep inside.



## Great energy savings

In many premises doors remain open for a significant part of the day, this results in huge losses of expensively heated or cooled air, especially when the temperature difference between outdoor and indoor air is great. With correctly installed air curtains great energy savings can be obtained.

## Comfortable indoor climate

Air curtains with Thermozone technology have optimized performance to provide a comfortable indoor climate free from drafts. The air curtain also keeps out emissions and insects.

## Low sound level

With Thermozone technology Frico manufactures air curtains with very high airflow performance. This does not just make the air curtain more effective, but also has other advantages such as extremely low sound levels and reduced turbulence.

## Technical specifications

🌀 Ambient, no heat - PAEC2500 A (IP44)

Voltage motor: 230V~

Item number	Type	Output [kW]	Airflow [m <sup>3</sup> /h]	Sound power* <sup>1</sup> [dB(A)]	Sound pressure* <sup>2</sup> [dB(A)]	Amperage motor* <sup>3</sup> [A]	Length [mm]	Weight [kg]
84620	PAEC2510A	0	1400	70	33/35	0,15/0,8	1050	16
84621	PAEC2515A	0	2100	72	37/55	0,2/0,9	1560	23,5
84622	PAEC2520A	0	2800	71	34/54	0,3/1,6	2050	32

\*<sup>1</sup>) Sound power ( $L_{WA}$ ) measurements according to ISO 27327-2: 2014, Installation type E.

\*<sup>2</sup>) Sound pressure ( $L_{pA}$ ). Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m<sup>2</sup>. At 50% and 100% airflow.

\*<sup>3</sup>) Applicable at 50% and 100% airflow.

Approved for 200-240V, 50/60Hz. Product performance for 60Hz will differ from stated data.



Manufactured in Sweden with a corrosion proof housing made of hot zinc-plate and powder coated steel panels. Plastic ends. Colour front: white, RAL 9016, NCS S 0500-N. Colour grille, rear section, ends and brackets: grey, RAL 7046.

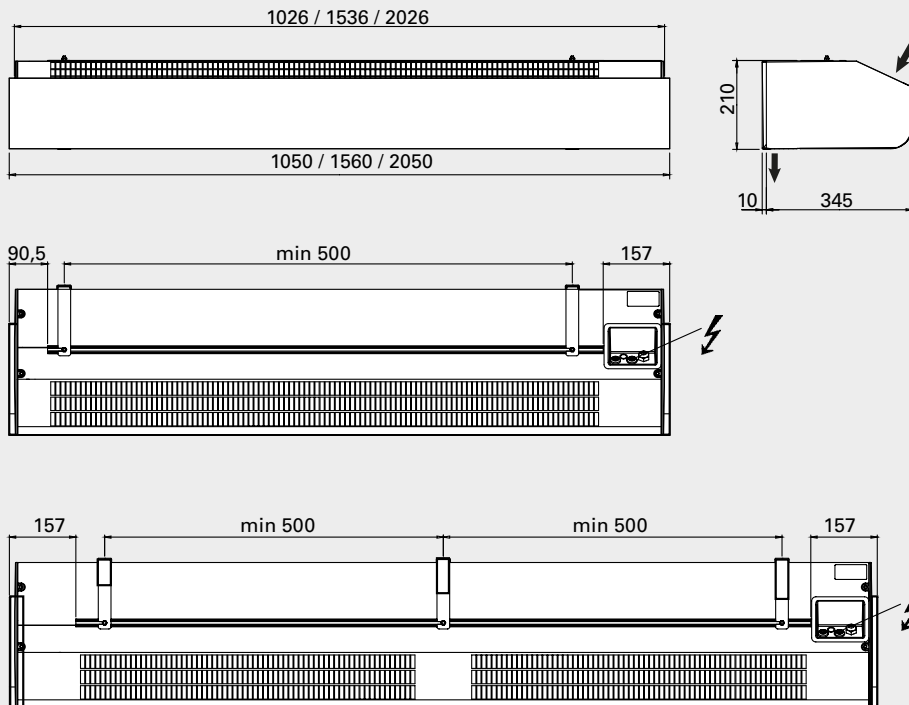


## Mounting

Installation height for cold storage: up to 4 m. Recommended installation height for entrances: 2,5 m. The air curtain unit is installed horizontally with the outlet air grille facing downwards as close to the door as possible. When the unit is used to protect cold storage or freezer rooms, it must be mounted on the outside of the conditioned space. Wall brackets included. Threaded rods, hanging brackets and ceiling mounting brackets for ceiling mounting are available as accessories, see accessories pages and separate manuals.

## Connection

The unit is connected with a 1.5m cord and plug. The front is easy to remove, which facilitates installation and allows easy maintenance.



Recommended installation height varies depending on the relevant premises. See [www.frico.net](http://www.frico.net) for further information.

For mounting, connection, wiring diagrams and other technical information, please see the manual.

**Stepless airflow control**

The airflow is set manually on the internal potentiometer 0-10V, which is located inside the outlet grille.

**Stepless airflow control with external potentiometer**

The airflow is set manually on an external potentiometer 0-10V.

Control kit:

**PAMP10, external potentiometer**

**Stepless airflow control with door contact/position limit switch**

When the door is closed the fan runs at low speed, set on the internal potentiometer 0-10V, which is located inside the outlet grille. When the door opens, the fan runs at high speed, set on an external potentiometer. This control option gives low response time and the best protection.

Control kit:

**PAMP10, external potentiometer**

FCDC, door contact or AGB304, position limit switch

**BMS control**

The air curtain can also be controlled via BMS (0-10V).



### PAMP10, external potentiometer

Potentiometer for stepless control. The required output voltage is steplessly set between 0-10V. Potential free contact for ON / OFF connection of external equipment. The potentiometer can be installed recessed (IP44) or externally (IP54). PAMP10 can control up to eight units (2 m: four units).



### FCDC, door contact

Indicates door status. Potential free, changeover contact.



### AGB304, position limit switch

Starts the air curtain or activates a fan speed control when the door is opened. When the door closes, AGB304 stops the air curtain or changes fan speed through a fan speed control. Alternating contact 4 A, 230 V~. IP67.

## Accessories - mounting



### PA2PF, ceiling mounting brackets

Mountings for installing the unit in the ceiling using hanging brackets or threaded bars (not included).



### PA34TR, threaded bars

Threaded bars for installing unit on to a ceiling. Length 1 m. Used together with ceiling mounting brackets PA2PF.



### PA2P, hanging brackets

Hanging brackets for installing the unit suspended from the ceiling. Length 1 m. The hanging brackets are covered by a white plastic trim to cover the cables. The brackets may be cut to shorter length, if required. Used together with ceiling mounting brackets PA2PF.

Item number	Type	Used for	Consists of
87675	PAMP10	PAEC2510/2515/2520	1
17495	FCDC	PAEC2510/2515/2520	1
10016	AGB304	PAEC2510/2515/2520	1
19415	PA2PF15	PAEC2510/2515	4
19417	PA2PF20	PAEC2520	6
18056	PA34TR15	PAEC2510/2515	4
18057	PA34TR20	PAEC2520	6
19568	PA2P15	PAEC2510/2515	2
19569	PA2P20	PAEC2520	3