



## PAECS

Slim air curtain with EC motor and integrated controls, for cold rooms and entrances

Recommended installation height for entrances: 2,5 m\*

Installation height for cold storage: up to 4 m\*

PAECS creates an effective barrier between temperature zones. Stepless control that can be set for open and closed door allows precise adjustment for every installation, with optimised protection at the lowest possible energy consumption.

PAECS is the perfect choice for cold room and freezer applications, and also for entrances, e.g. to air conditioned premises.

- Very low operating costs can be achieved thanks to the combination of EC motors and Frico's unique fan geometry.
- Stepless airflow control.
- Prepared with extracted control wiring so that external control can be connected easily.
- Easy installation with 1,5 m cable and plug.
- Wall brackets included.
- The front is easy to remove, which facilitates installation and allows easy maintenance.
- Corrosion proof housing made of hot zinc-plate and powder enamelled steel panels. Colour front: white, RAL 9016, NCS S 0500-N. Colour grille, rear section, ends and brackets: grey, RAL 7046.



Optimized airflow with Thermozone technology.

### ✿ Ambient, no heat - PAECS (IP44)

Type	Output [kW]	Airflow [m³/h]	Sound power* <sup>1</sup> [dB(A)]	Sound pressure* <sup>2</sup> [dB(A)]	Voltage motor [V]	Amperage motor* <sup>3</sup> [A]	Length [mm]	Weight [kg]
PAECS10	0	1450	77	61/44	230V~	0,14/0,79	1050	15
PAECS15	0	2200	78	62/45	230V~	0,20/1,17	1560	20

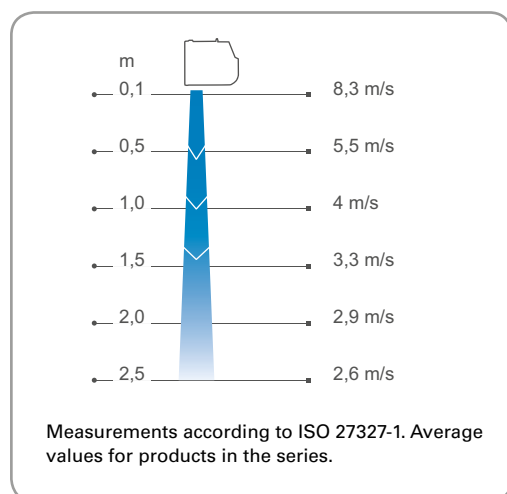
\*<sup>1</sup>) Sound power ( $L_{WA}$ ) measurements according to ISO 27327-2: 2014, Installation type E.

\*<sup>2</sup>) Sound pressure ( $L_{pA}$ ). Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m². At 50% and 100% airflow.

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

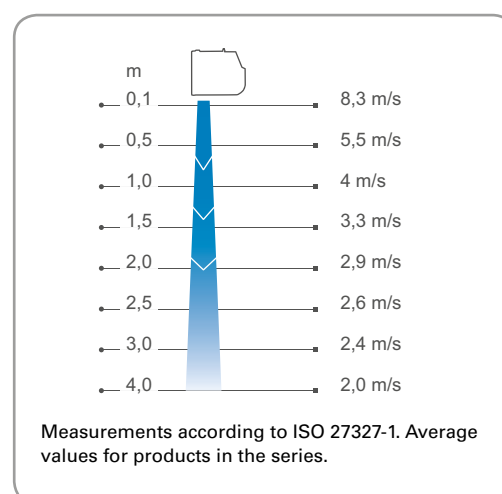
\*) Recommended installation height varies depending on the relevant premises.

## Air velocity profile - Entrances



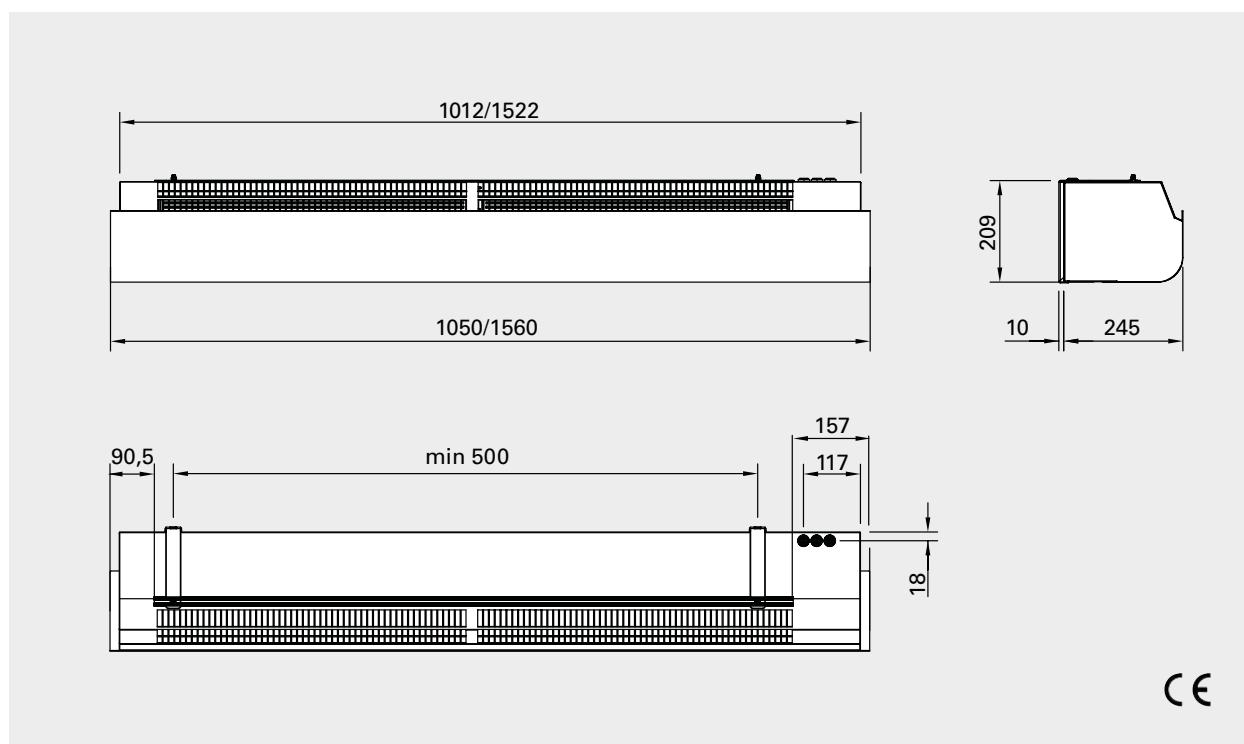
"Entrances" are considered to be installations facing outdoor premises subjected to wind loads and/or involve pressure difference over door opening caused by building design and/or ventilation.

## Air velocity profile - Cold storage



"Cold storage" applies to installations inside a building, between two inner rooms where the air exchange through the opening between the rooms is caused by the difference in air temperature.

## Dimensions



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

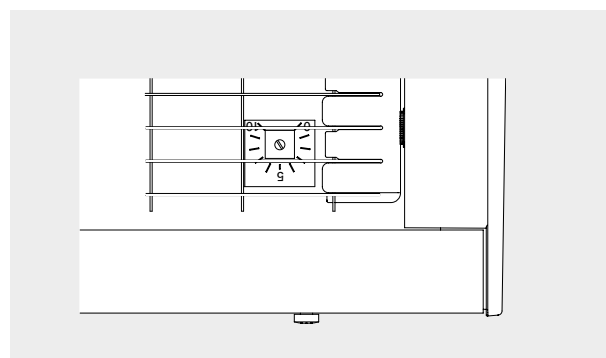
## Control options

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
- SIREDC, door contact or AGB304, position limit switch

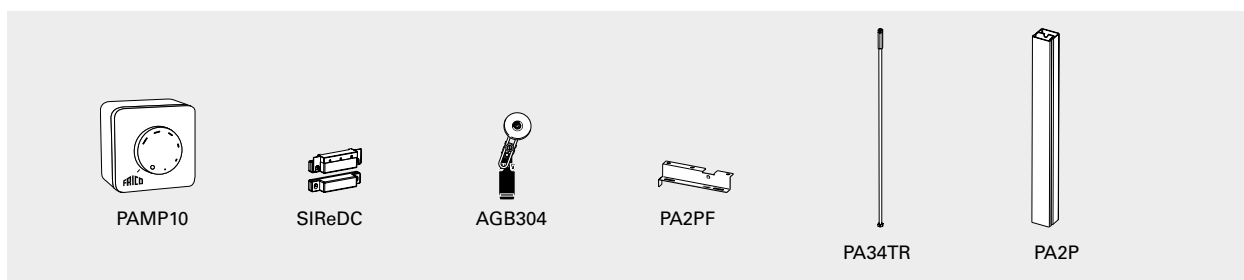


Internal potentiometer (accessible through the outlet grille).

BMS control

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

## Accessories



**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).

**SIREDC, 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~. IP44.

**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/PA3PF.

**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/PA3PF.

Type	Description	Quantity included	Length
<b>PAMP10</b>	External potentiometer		
<b>SIREDC</b>	Door contact		
<b>AGB304</b>	Position limit switch, IP44		
<b>PA2PF15</b>	Ceiling mounting brackets for 1 and 1,5 metre units	4	
<b>PA2PF20</b>	Ceiling mounting brackets for 2 metre units	6	
<b>PA34TR15</b>	Threaded bars for 1 and 1,5 metre units	4	1 m
<b>PA34TR20</b>	Threaded bars for 2 metre units	6	1 m
<b>PA2P15</b>	Hanging brackets for 1 and 1,5 metre units	2	1 m
<b>PA2P20</b>	Hanging brackets for 2 metre units	3	1 m