

PAECS

FRICO



Slim and cost effective air curtain with EC motor and integrated controls for cold rooms

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.

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.

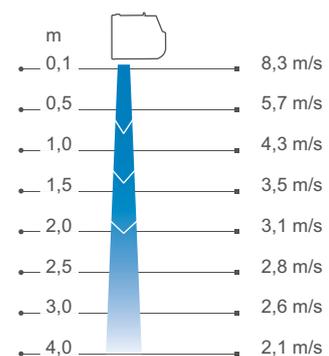
PAECS



 Ambient (without heat)

Installation height for cold storage: up to 4 m

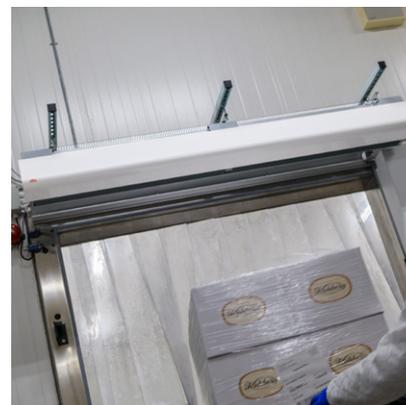
Air velocity profile



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

2021-09-22

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 - PAECS (IP44)

Voltage motor: 230V~

Item number	Type	Output [kW]	Airflow [m³/h]	Sound power* ¹ [dB(A)]	Sound pressure* ² [dB(A)]	Amperage motor* ³ [A]	Length [mm]	Weight [kg]
154846	PAECS10	0	1450	77	44/62	0,14/0,79	1050	15
154847	PAECS15	0	2200	78	45/62	0,20/1,17	1560	20
154848	PAECS20	0	3100	83	51/67	0,40/2,04	2050	30

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

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

*³) 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. Colour front: white, RAL 9016, NCS S 0500-N. Colour grille, rear section, ends and brackets: grey, RAL 7046.

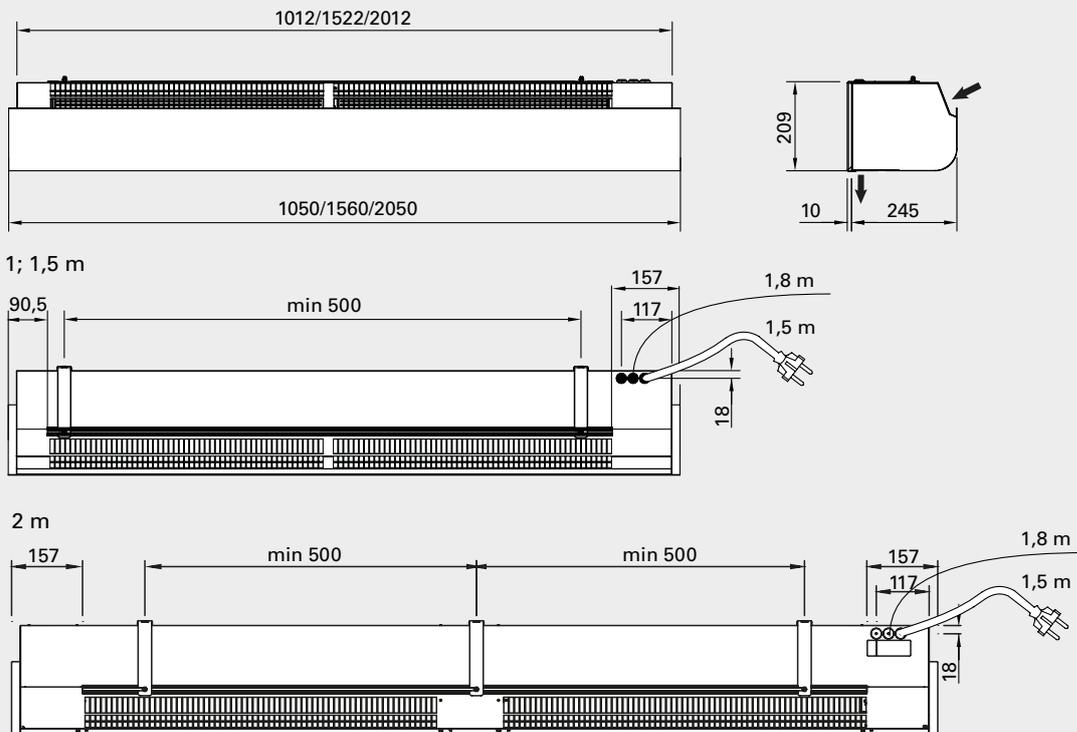


Mounting

PAECS is the perfect choice for cold room and freezer applications. Installation height for cold storage: up to 4 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.

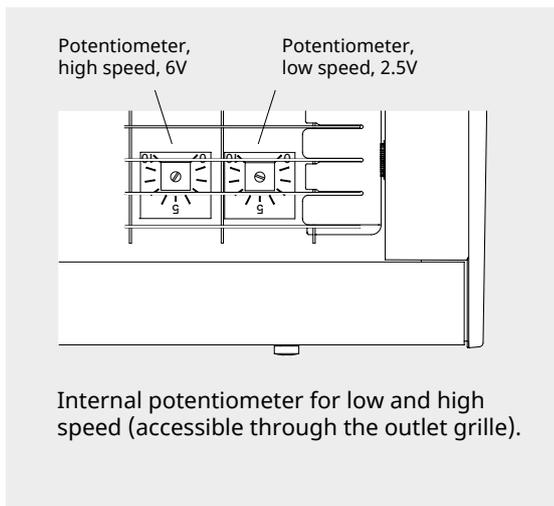
Connection

The unit is connected with a 1.5m cord and plug. Prepared with extracted control wiring so that external control can be connected easily. NB! A door contact must be connected before connecting the unit to the power supply.



Recommended installation height varies depending on the relevant premises. See www.frico.net for further information.

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



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:
FCDC, door contact or AGB304, position limit switch

BMS control

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

Accessories



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.

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
17495	FCDC	PAECS10/15/20	1
10016	AGB304	PAECS10/15/20	1
19415	PA2PF15	PAECS10/15	4
19417	PA2PF20	PAECS20	6
18056	PA34TR15	PAECS10/15	4
18057	PA34TR20	PAECS20	6
19568	PA2P15	PAECS10/15	2
19569	PA2P20	PAECS20	3