

Pamir  
2500

FRICO



## Slim air curtain for entrances, with energy efficient control

Pamir 2500, with a recommended installation height of 2,5 m, has a modern and sleek design developed to fit all entrances and door ways in shops, offices and public premises. The air curtain is available for horizontal installation with wall brackets included. The front is easy to remove, which facilitates installation and allows easy maintenance.

### Optimized door protection

In order to generate the best possible door protection in any given condition, the air curtain automatically adjusts the airflow based on outdoor temperature and room temperature.

### Intelligent control options

The Pamir series is supplemented with an intelligent control system that allows you to optimize your comfort with minimum effort. Smart and automatic features enable simple set-up and operation for different Frico products groups.

### 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.

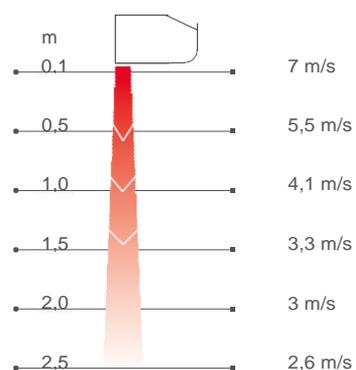
### Pamir 2500



#### Available in 3 versions:

- ❄ Ambient (without heat)
- ⚡ Electrical heating
- 💧 Water heating

### Air velocity profile



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

Pamir 2500

# 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.

## Create the optimal solution to suit your specific needs

After you selected the air curtain to suit your specific needs (ambient, electrical heating, water heating) and length 1, 1,5, or 2 m you assemble your control and accessory options:

### Select control system

Choose one of our FC Control systems.



### Add valve system

Water heated units must be supplemented with a valve system.



### Select mounting options

Add mounting accessories if needed.



## 1 Ambient, no heat - PAF2500 A (IP21)

Voltage motor: 230V~

Item number	Type	Output	Airflow* <sup>1</sup>	Sound power* <sup>2</sup>	Sound pressure* <sup>3</sup>	Amperage motor [A]	Length [mm]	Weight [kg]
		[kW]	[m <sup>3</sup> /h]	[dB(A)]	[dB(A)]			
246826	<b>PAF2510A</b>	0	900/1300	70	43/53	0,5	1000	16
246830	<b>PAF2515A</b>	0	1250/2100	71	44/54	0,7	1500	24
246834	<b>PAF2520A</b>	0	1800/2600	72	44/55	1,0	2000	32

## 3 Electrical heat - PAF2500 E (IP20)

Item number	Type	Output steps	Airflow* <sup>1</sup>	$\Delta t$ * <sup>4</sup>	Sound power* <sup>2</sup>	Sound pressure* <sup>3</sup>	Amperage motor [A]	Voltage [V]	Length [mm]	Weight [kg]
		[kW]	[m <sup>3</sup> /h]	[°C]	[dB(A)]	[dB(A)]		Amperage [A] (heat)		
246823	<b>PAF2510E05</b>	1,7/3,3/5,0	900/1450	17/11	68	42/51	0,5	400V3~/7,2	1000	19
246824	<b>PAF2510E08</b>	3,0/5,0/8,0	900/1450	27/17	68	42/51	0,5	400V3~/11,5	1000	20
246827	<b>PAF2515E08</b>	2,7/5,3/8,0	1400/2200	18/11	69	40/52	0,7	400V3~/11,5	1500	30
246828	<b>PAF2515E12</b>	4,0/8,0/12	1400/2200	26/17	69	40/52	0,7	400V3~/17,3	1500	32
246831	<b>PAF2520E10</b>	3,4/6,6/10	1800/2900	17/11	70	43/53	1,0	400V3~/14,4	2000	36
246832	<b>PAF2520E16</b>	6,0/10/16	1800/2900	27/17	70	43/53	1,0	400V3~/23,1	2000	40

## 2 Water heat - PAF2500 W (IP21)

Item number	Type	Output* <sup>5</sup>	Airflow* <sup>1</sup>	$\Delta t$ * <sup>4,5</sup>	Water volume	Sound power* <sup>2</sup>	Sound pressure* <sup>3</sup>	Amperage motor [A]	Length [mm]	Weight [kg]
		[kW]	[m <sup>3</sup> /h]	[°C]	[l]	[dB(A)]	[dB(A)]			
246825	<b>PAF2510W</b>	4,7	900/1300	12/11	0,7	69	42/53	2,3	1000	18
246829	<b>PAF2515W</b>	9,2	1250/2100	16/13	1,1	70	41/54	3,2	1500	26
246833	<b>PAF2520W</b>	11	1800/2600	15/13	1,4	71	43/55	5,1	2000	35

\*<sup>1</sup>) Lowest/highest airflow of totally 3 fan steps.\*<sup>2</sup>) Sound power ( $L_{WA}$ ) measurements according to ISO 27327-2: 2014, Installation type E.\*<sup>3</sup>) Sound pressure ( $L_{pA}$ ). Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m<sup>2</sup>. At lowest/highest airflow.\*<sup>4</sup>)  $\Delta t$  = temperature rise of passing air at maximum heat output and lowest/highest airflow.\*<sup>5</sup>) Applicable at water temperature 60/40 °C, air temperature, in +18 °C. See [www.frico.net](http://www.frico.net) for additional calculations.

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



## Mounting

The recommended installation height of Pamir 2500 is 2,5 m. The air curtain is installed horizontally with the outlet air grille facing downwards as close to the door as possible. For the protection of wider doorways, several units can be mounted in series alongside each other.

The unit can be mounted with included wall brackets or be supplemented with accessories for mounting from the ceiling.

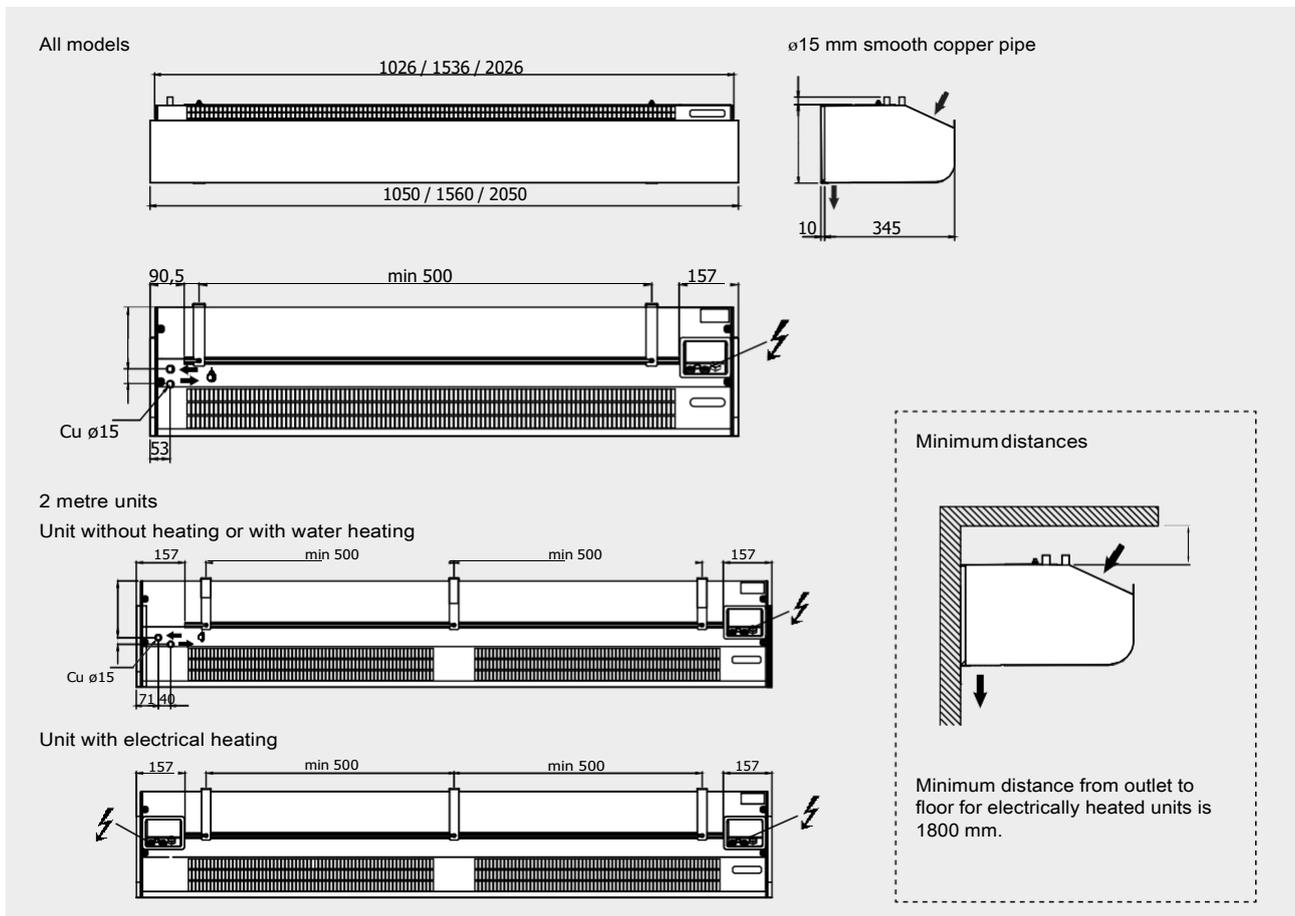
## Connection

The front is easy to remove, which facilitates installation and allows easy maintenance.

The air curtain has an integrated PC board which is connected to the selected external control system FC. Control is supplied by 230V~ to the PC board. The PC board is accessed via cable glands on the top of the unit. Communication- and sensor cables are connected to the PC board.

Units without heat and with water heat are connected with 1,5 m cord and plug. For electrical heated units the electrical connection is made on the top of the unit. Control (230V~) and power supply for heat (400V3~) should be connected to a terminal block in the terminal box.

Water heated units are connected to the water system on top of the unit. Flexible hoses are available as accessories. Water heated units must always be supplemented with a valve kit mounted outside of the unit, see Valves and Accessories.



Frico air curtains come with an integrated PC-board and are supplemented with the intelligent control system FC of your choice, working together to create many smart and energy saving features. There are four different packages to choose from, depending on your requirements.

### FC Direct

*Entry level*

- Door contact
- Calendarfunction
- Filter timer

### FC Smart

*FC Direct +*

- Control via app (Bluetooth)
- Wireless sensors possible
- Adjustable calendarfunction
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

### FC Pro

*FC Direct + FC Smart +*

- Automatic air flow control
- Automatic heat blocking

### FC Building - BMS

*FC Direct +*

- 0-10V or Modbus
- Automatic air flow control\*
- Automatic heat blocking\*
- Heat and fan settings
- Alarm indication
- Read values

*\* Requires outdoor temp signal*



#### FC Direct

Entry level control system for a great start. The door contact provides an automatic energy-saving function, as the air curtain becomes active only when the door is open. When the door is closed, it remains on stand-by or runs on a lower fan speed if extra heat is needed. With the calendar function, you can schedule when the system should be active.



#### FC Smart

Second level control system for full freedom. FC Smart comes with all features from FC Direct plus additional energy saving features and the possibility of app control (Bluetooth). The app gives you access to all functions in the system, allowing you to set it up exactly the way you want it. It also enables you to create different zones with different settings in a larger system.



#### FC Pro

Third level control system for maximum savings. FC Pro comes with all features from FC Direct and FC Smart plus additional automatic energy saving features. By receiving and reacting to information about indoor and outdoor temperatures, the right amount of heat and air flow is added to avoid overshoots and thus reducing energy consumption.



#### FC Building - BMS system

Comprehensive control system for buildings, with the option to control via 0-10V or Modbus. FC Building enables you to receive product information status and alarms. Modbus allows for full use of all the energy saving features within the control system.

Item number	Type	Description
74684	<b>FCDA</b>	FC Direct, first level control system
74685	<b>FCSA</b>	FC Smart, second level control system
74686	<b>FCPA</b>	FC Pro, third level control system
74687	<b>FCBA</b>	FC Building, BMS system