

New intelligent air curtain range

# PA-series



# PA air curtains

– one series, more possibilities



It should be easy to select Frico, and it should also be easy to select the right air curtain.

With PA-series you will have more options and possibilities than ever before, packaged in the same product.

**PA2200C** with built-in regulation and remote control, for entrances up to 2.2 m

**PA2500** for entrances up to 2.5 m

✿ Ambient (PA2200C)

⚡ Electrically heated

💧 Water heated

Lengths: 1000 mm, 1500 mm, 2000 mm

Installation configuration: horizontal

**PA3500** for entrances up to 3.5 m

**PA4200** for entrances and doorways up to 4.2 m

✿ Ambient

⚡ Electrically heated

💧 Water heated – wide temperature range

Lengths: 1000 mm, 1500 mm, 2000 mm, 2500 mm

Installation configuration: vertical, horizontal, recessed

# Energy efficiency and improved comfort

With PA you will be able to get the comfort that you need with as high energy efficiency as possible.

As all air curtains from Frico, PA-series is based on Thermozone technology, which means that it creates an efficient air barrier with optimized air flow. Our unique grille controls the air flow in three dimensions, and gives our air curtains the markets best performance. By optimized air flow the air curtain gives the comfort needed with less energy consumption.

## Be vertical

PA is available in many mounting solutions. By choosing the vertical units you can eliminate cold draughts along the floor extremely efficiently. For optimum effect a unit should be positioned on both sides of the door.

## Intelligent control

New intelligent PA air curtain automatically adapts to your entrance conditions. Depending on how often the door is opened/closed, or if it is left open continually, the built-in control system SIRE operates so that optimal comfort and energy efficiency is achieved. By selecting the Eco mode you can make even more energy savings.



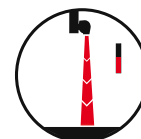
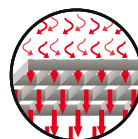
## Thermozone technology

Optimal air curtain effect

Frico's air curtains have optimal curtain effect for doors and entrances. Thanks to Thermozone technology, performance can be adjusted so precisely that both efficient separation and an air barrier that is comfortable to pass through are achieved.

Thermozone air curtains have:

- Optimized air flow geometry
- Optimized performance
- Minimized sound level



# Intelligent built-in control

PA has built-in intelligent control system, SIRE, that controls the air curtain automatically. The PA air curtain adapts to the existing conditions in the entrance. By sensing how often the door opens/closes, outdoor temperature, indoor temperature or even the return water temperature, the air curtain will give you the most effective protection with the highest energy efficiency.

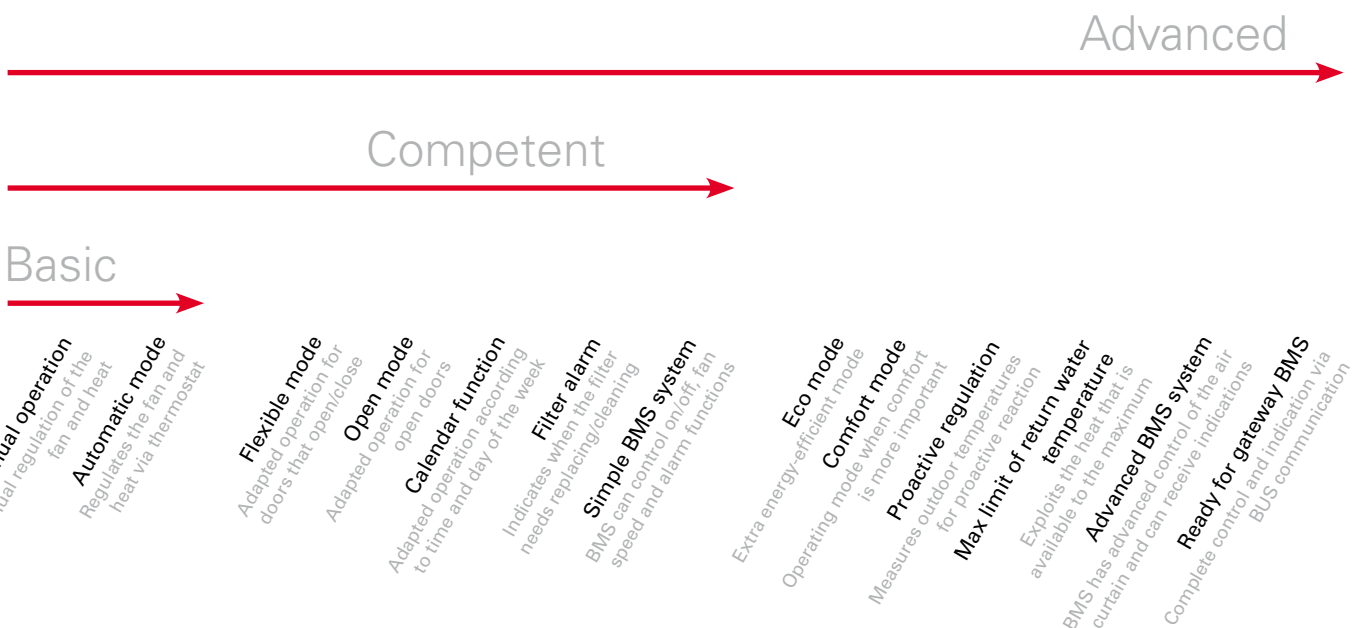
## Install and forget

With built-in control system SIRE, the PA air curtain will always perform at it's best. You'll never have to think about switching it on or off. It even adapts to the season outside, and with calendar function the air curtain automatically runs during the hours it is needed.



## An option for every need

Choose between three solution packages:





## Intelligent

Automatically adapts to your entrance

PA automatically adapts to your entrance conditions. Depending on how often the door is opened/closed, or if it is left open continually, the integrated SIRe controls the air curtain operation so that optimal comfort and energy efficiency is achieved.



## Proactive

Anticipates for quicker reactions

By measuring the outdoor temperature, PA is always a step ahead. The integrated regulation ensures that the air curtain is prepared for changes in the outdoor temperature. For example, when a warm spring day turns into a chilly evening. The air speed is adjusted depending on the outdoor temperature change and stops the chill before it penetrates inside the premises.



## Eco mode

Save money and the environment at the same time

With SIRe intelligent regulation integrated in your PA air curtain, you get comfort in your entrance without wasting energy. If you want to increase the energy efficiency further, set PA air curtain in Eco mode. Energy savings of up to 35 percent are possible. The air curtain then uses as little energy as possible without compromising too much on comfort.



## BMS solutions

Endless possibilities

With our new intelligent PA-series, the possibilities to control your air curtains via BMS are endless. You can either choose to control your PA air curtain by 0-10 V signals (controlling on/off, fan speed, heating and alarm) or completely control all functions and receive indications from your PA air curtain via gateway (two threaded) BUS communication.



## Calendar function

Presets as required

PA has a calendar function for all the days of the week. The air curtain starts in the morning to ensure that it's always working to create a comfortable climate and save energy. Preset default setting may easily be adjusted by the user.



## Simple installation

"Plug and play"

PA air curtain with integrated SIRe control system is easy to install. The different components are supplied together and are easy to assemble. The system self-checks that everything is correct and that it functions. Thanks to the preset default settings it is easy to start air curtain operation as soon as the system is in place.



## Adaptive

Expert on your entrance

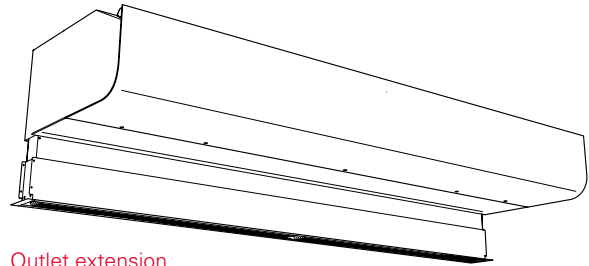
PA has the capacity to learn precisely what happens at your entrance. The air curtain adapts so that it is always ready to operate fully as soon as the door is opened. It also considers the acoustic comfort by ensuring that the air curtain does not switch between high and low speeds too often.

# Design – many mounting possibilities

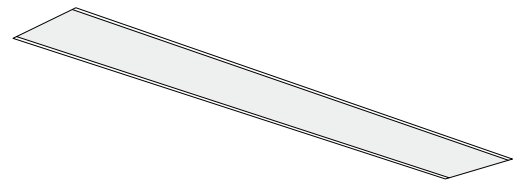
PA-series has a modern and discreet design to blend in well in any environment. The air curtains have many mounting solutions to fit to any entrance. PA is available for both vertical, horizontal and recessed installation. In addition you can also link them to cover large doorways or many entrance doors in a row.

## Accessories for a stylish solution

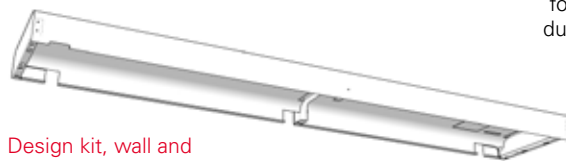
As accessories you are able to get special design kits adapted for PA. With the design kits for total installation you are able to hide all brackets, cable and pipe connections, to make a really stylish installation.



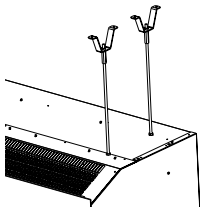
Outlet extension  
for recessed mounting



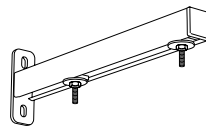
External filter  
for easy cleaning in  
dusty environments



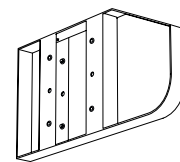
Design kit, wall and  
vertically mounted  
hide brackets, cables  
and pipe connections



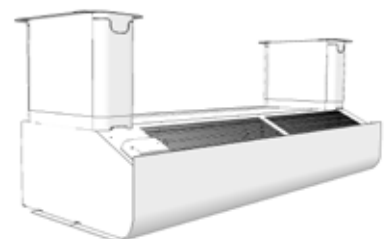
Ceiling mounted  
either with ceiling brackets,  
wire suspension or threaded bars



Wall brackets  
for installing unit  
horizontally on a wall



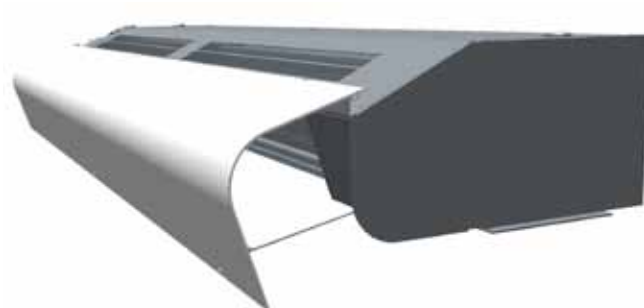
Joining kit  
to join horizontal and  
vertical units together



Design kit, ceiling mounted  
hide brackets, cable  
and pipe connection

# Easy installation and maintenance

PA air curtain, with integrated intelligent regulation SIRE, comes pre-programmed with quick-release connections and is very easy to install. The different components are supplied together and are easy to assemble. The system self-checks that everything is correct and that it works as intended. Thanks to the default settings it is easy to start air curtain operation as soon as the system is in place.



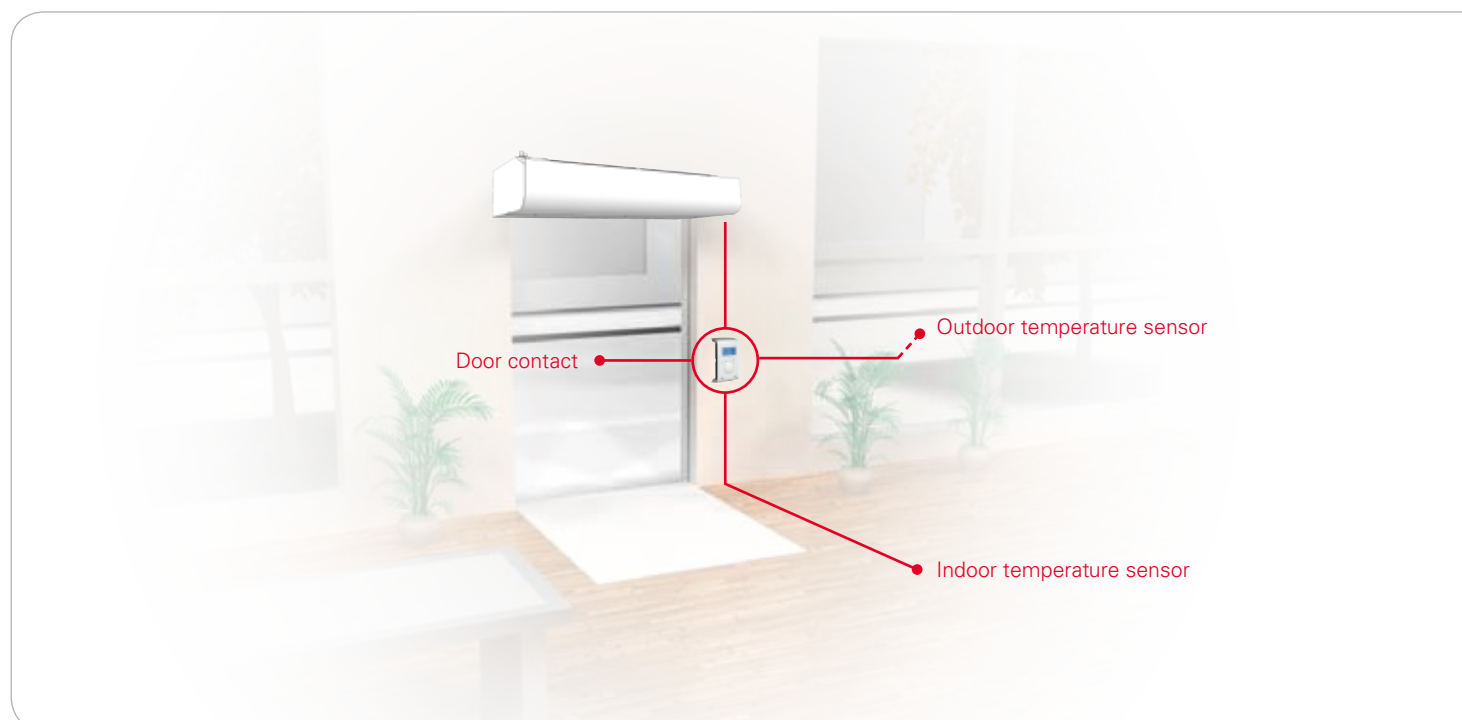
Front hatch  
that swings open

## Easy access

Standard maintenance will be fast to conduct thanks to a hatch on the front that swings open. For easy maintenance, there is also a possibility to have the PA air curtain with an external filter. In addition you are as always offered good documentation and support.

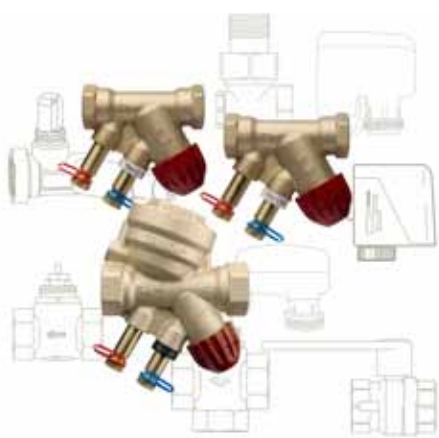
## PA is easy to install

The different components are supplied together and are easy to assemble



# Combine with valve kits

Frico's complete valve kit with multifunctional terminal valves makes new functions possible and ensures stable flows and exact control using the modulating actuator. They are supplied to control at different levels and have a low installation cost with few components. The valve kit gives exact adjustment which means extra energy savings.



## Why a valve kit from Frico?

- Always provide correct water flow and temperature, which gives increased energy efficiency.
- Valve kits support Frico products with built-in control system SIRE, which features Eco/Comfort mode and Proactive regulation.
- Use pressure independent valve kits for optimum comfort and energy efficiency. Easy to dimension.

## How to choose:

### SIRE Basic, SIRE Competent

#### VOS, valve kit on/off

- Complete kit with two way control and adjustment valve, on/off-actuator, shut-off valve and bypass.

#### VOSP, pressure independent valve kit on/off

- Complete kit with two way pressure independent control and adjustment valve, on/off-actuator, shut-off valve and bypass.
- Two way pressure independent control and adjustment valve ensures that the flow always is constant.

#### VOT, three way control valve and actuator on/off

- Complete kit with three way valve and on/off-actuator.

#### VMO, modulating valve kit

- Complete kit with two way control and adjustment valve, modulating (stepless) actuator and shut-off valve.

### SIRE Advanced

#### VMOP, pressure independent and modulating valve kit

- Complete kit with two way pressure independent control and adjustment valve, modulating (stepless) actuator and shut-off valve.
- Two way pressure independent control and adjustment valve ensures that the flow always is constant.

#### VMT, three way control valve and modulating actuator

- Complete kit with three way valve and modulating (stepless) actuator.

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Frico stands for **trust**,  
**competence** and **design**,  
and since starting in 1932 we have  
carefully built a very strong brand.