

PA3200C

FRICO



Stylish air curtain for commercial premises, with remote and integrated control

PA3200C is a compact air curtain for commercial buildings and small industrial entrances. The air curtain has an integrated control system and can also be remote controlled which makes it very easy to install and use. Its recommended installation height is 3,2 m. 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.

Leading technology and design

Frico collaborates with leading architects and product designs in the product development. The air curtains blends in well in the environment and the designed for fit into both exclusive shop interiors as industrial environments.

Plug & play

The air curtain has a control panel discretely integrated in the gable end and can be controlled by a separate remote control.

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.

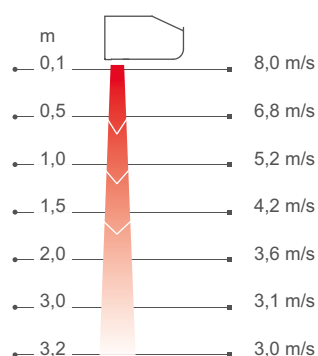
PA3200C



Available in 3 versions:

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

Air velocity profile



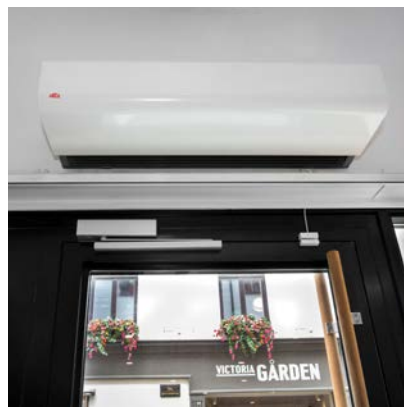
Measurements according to ISO 27327-1. Average values for products in the series.

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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 draughts. 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 efficient, 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:

Accessories - Control options

Door switch control .

Add valve system

Water heated units must be supplemented with a valve system.

Select mounting options

Add mounting accessories if needed.



🌀 Ambient, no heat - PA3200C A (IP21)

Voltage motor: 230V~

Item number	Type	Output [kW]	Airflow* ¹ [m³/h]	Sound power* ² [dB(A)]	Sound pressure* ³ [dB(A)]	Amperage motor [A]	Length [mm]	Weight [kg]
19802	PA3210CA	0	1100/1750	73	46/57	0,7	1068	22
19805	PA3215CA	0	1700/2750	74	46/59	1,0	1578	32
19808	PA3220CA	0	2300/3500	75	50/60	1,3	2068	42

⚡ Electrical heat - PA3200C E (IP20)

Item number	Type	Output steps [kW]	Airflow* ¹ [m³/h]	Δt* ⁴ [°C]	Sound power* ² [dB(A)]	Sound pressure* ³ [dB(A)]	Amperage motor [A]	Voltage [V] Amperage [A] (heat)	Length [mm]	Weight [kg]
19801	PA3210CE08	5/8	1100/1750	22/13	72	46/57	0,65	400V3N~/11,5	1068	26
19804	PA3215CE12	8/12	1700/2750	21/13	75	46/59	1,0	400V3N~/17,3	1578	37
19807	PA3220CE16	10/16	2300/3500	22/13	76	50/60	1,3	400V3N~/23,1	2068	51

💧 Water heat - PA3200C W (IP21)

Item number	Type	Output* ⁵ [kW]	Airflow* ¹ [m³/h]	Δt* ^{4,5} [°C]	Water volume [l]	Sound power* ² [dB(A)]	Sound pressure* ³ [dB(A)]	Amperage motor [A]	Length [mm]	Weight [kg]
19809	PA3210CW	8	1050/1700	16/14	1,3	70	45/55	0,65	1068	26
19810	PA3212CW	14	1850/2700	17/15	2,1	73	46/57	0,7	1578	36
19811	PA3220CW	18	2200/3300	18/16	2,7	74	49/58	1,3	2068	48

*¹) Lowest/highest airflow of totally 3 fan steps.

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

*³) Sound pressure (L_{pA}). Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m². At lowest/highest airflow.

*⁴) Δt = temperature rise of passing air at maximum heat output and lowest/highest airflow.

*⁵) Applicable at water temperature 60/40 °C, air temperature, in +18 °C. See www.frico.net for additional calculations.



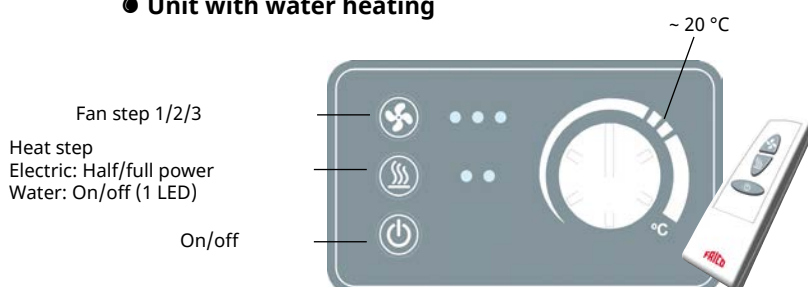
Manufactured in Sweden with a corrosion proof housing made of hot zinc-plate and powder coated steel panels. Plastic ends. Colour front: white, RAL 9016. Colour grille, rear section, ends and brackets: grey, RAL 7046.

Controls

The control system is integrated in the air curtain. The air curtain can be regulated with a remote control or by the control panel placed inside the service hatch. The air speed is set manually. The heat is controlled automatically. Door switch control PA2DR is available as an accessory for a door switch function. Possibility of using external on/off.

⚡ Unit with electrical heating

💧 Unit with water heating



- Remote control.
- Integrated control panel on end of unit
 - 3 fan steps, 2 electrical heating steps (electrical), heating on / off (water).
- Manual regulation of the fan.
- Automatic heating control.

🌀 Unit without heating



- Remote control.
- Integrated control panel on end of unit
 - 3 fan steps.
- Manual regulation of the fan.



Mounting

The recommended installation height of PA3200C is 3,2 m. The air curtain is installed horizontally with the outlet air grille facing downwards as close to the door as possible. The unit can be mounted with included wall brackets or be supplemented with accessories for mounting from the ceiling.

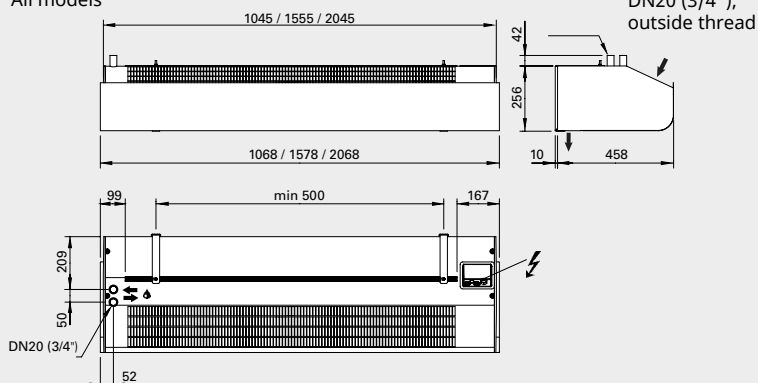
Connection

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

Units without heat and with water heat are connected with 1,5 m cord and plug. 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.

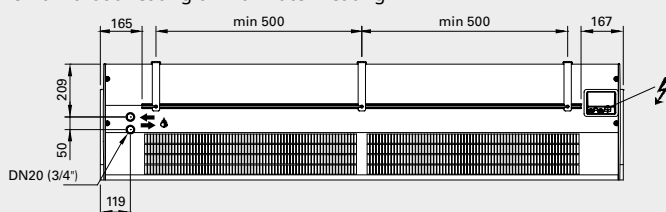
Water heated units are connected to the water system on top of the unit. Flexible hoses are available as accessories. Water heated units must always be supplemented with a valve kit mounted outside the unit. See Valves and Accessories.

All models

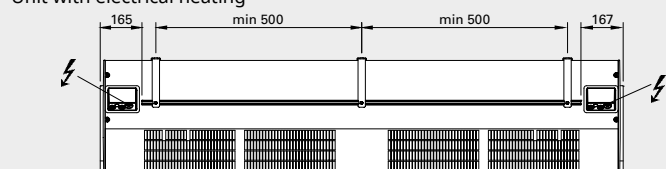


2 metre units

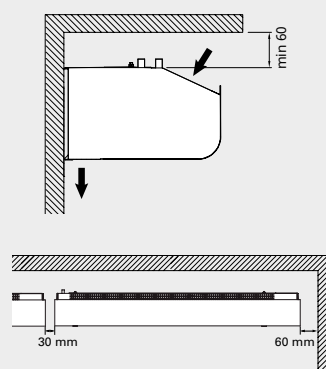
Unit without heating or with water heating



Unit with electrical heating



Minimum distances



Minimum distance from outlet to floor for electrically heated units is 1800 mm.

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PA2DR, door switch control

Contains a door switch for door indication and a special remote control intended to activate auto mode in the unit.

Item number	Type	Used for	Consists of
15662	PA2DR	PA3210C/3215C/3220C	1

Accessories - mounting



PA3PF, 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 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 PA3PF.

Item number	Type	Used for	Consists of
25256	PA3PF15	PA3210C/3215C	4
25257	PA3PF20	PA3220C	6
18056	PA34TR15	PA3210C/3215C	4
18057	PA34TR20	PA3220C	6
19568	PA2P15	PA3210C/3215C	2
19569	PA2P20	PA3220C	3

Water heated units must be supplemented with valves. The valve system controls the water flow and activates maximum heat only when needed. By activating the built-in bypass feature, a small leakage flow is let through to make sure there is always hot water in the heating coil, providing frost protection and faster heating.



VLSP, pressure independent valve system on/off

Two way pressure independent control and adjustment valve with on/off actuator, shut-off valve and bypass. DN15/20/25/32. 230V.

VOT, three way control valve and actuator on/off

3-way control valve with on/off actuator, DN15/20/25. 230V.

The valve kit consists of the following:

TRVS, 3-way control valve

SD230, actuator on/off 230V

UNSG-R, UNSG, ANS, connection kits for valve system

UNSG-R: union set with swiveling nut and female thread.

UNSG: union set with swiveling nut and press end.

ANS: adapter nippel set with male thread and press end.

Item number	Type	DN	Flow range l/s
79379	VLSP15LF	DN15	0,012 - 0,068
79380	VLSP15NF	DN15	0,024 - 0,13
79381	VLSP20	DN20	0,058 - 0,32
79382	VLSP25	DN25	0,10 - 0,60
19031	VOT15	DN15	
19032	VOT20	DN20	
19033	VOT25	DN25	

Item number	Type	Description	Consists of
333340	UNSG20R15	Union set G20 x R15	2
333341	UNSG25R20	Union set G25 x R20	2
333342	UNSG32R25	Union set G32 x R25	2
333343	UNSG40R32	Union set G40 x R32	2
333344	UNSG2015	Union set G20 x 15mm	2
333345	UNSG2518	Union set G25 x 18mm	2
333346	UNSG2522	Union set G25 x 22mm	2
333347	UNSG3228	Union set G32 x 28mm	2
333348	UNSG4035	Union set G40 x 35mm	2
333349	ANS1515	Adapter nippel set R15	2
333350	ANS2018	Adapter nippel set R20	2
333351	ANS2022	Adapter nippel set R20	2
333352	ANS2528	Adapter nippel set R25	2
333353	ANS3235	Adapter nippel set R32	2

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Accessories - water heated units

FHDN20, flexible hoses

Flexible hoses for easy and practical installation of water heated unit. FHDN20: length 350 mm. FHDN2010: length 1 m. DN20, inside thread, 90° bend.

PA34EF, external intake filter

Fine mesh filter that prevents ingress of dirt and deposits to water heated units. The filter is easy to attach and remove thanks to the integrated magnetic strips. Makes maintenance easier since the unit does not need to be opened.

Item number	Type	Used for	Consists of
18055	FHDN20	PA3210CW/3215CW/3220CW	2
88906	FHDN2010	PA3210CW/3215CW/3220CW	2
19064	PA34EF10	PA3210CW	1
19065	PA34EF15	PA3210CW	1
19066	PA34EF20	PA3220CW	1