



TEDDINGTON
AIR CURTAIN SYSTEMS

FILTERLESS OPERATION



P - S E R I E S

The smart way for Shop & Business

Equipped with the CORRIGO® air discharge system



Shop &
Business

DOORS
MADE OF **AIR**

The smart way of saving energy.

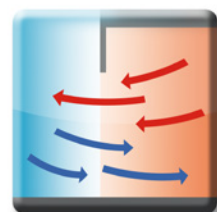
Expensive, heated air often escapes through open doors. This is unpleasant and wastes a great deal of energy.

TEDDINGTON air curtain systems counteract this effect. Heat energy is retained.

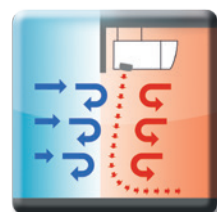
Good air conditioning.
Good for your wallet.
Good for the environment.

The P-Series is equipped with the CORRIGO® air discharge system. This enables you to adapt the air curtain to suit conditions at the entrance to your building. Compared to conventional air curtain systems you can achieve significantly greater energy efficiency and, in the process, make distinct improvements to comfort for your customers.

These devices are the smart way of efficiently screening doors up to three metres in height.



A great deal of energy gets lost through unprotected doors. Enormous savings potential exists here.







An air curtain system counteracts incoming cold air using a counter-flow – an invisible air door.



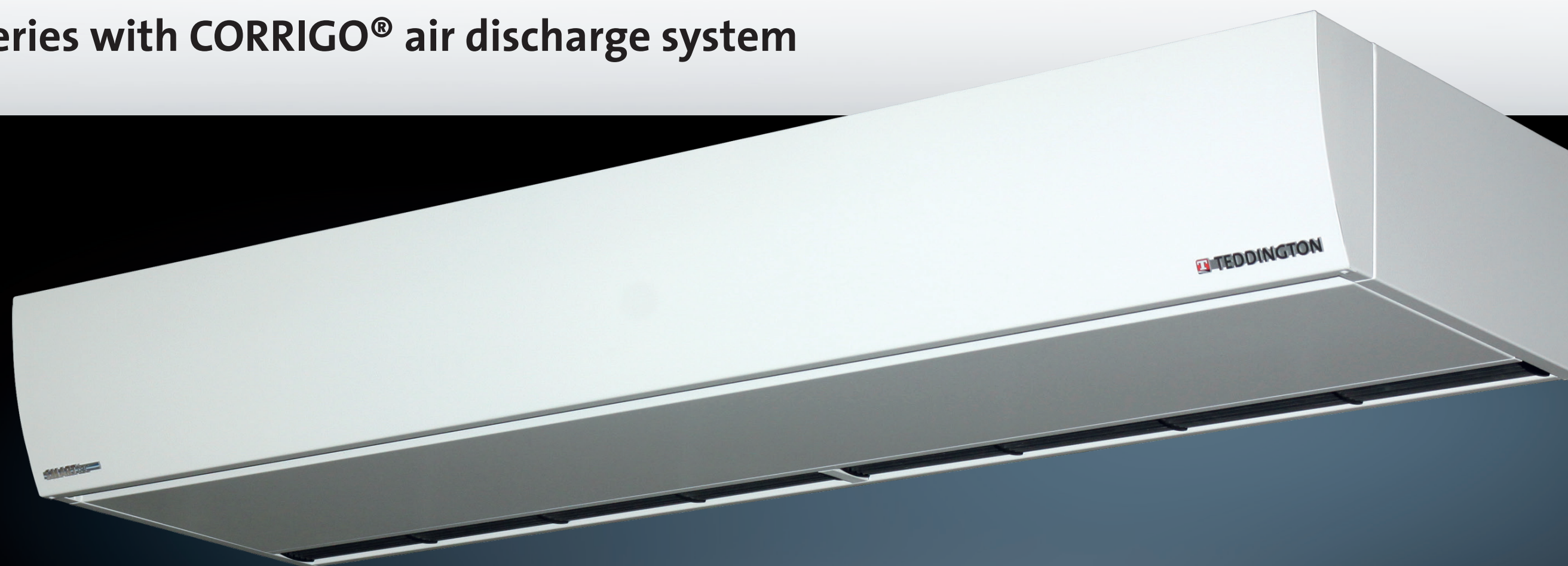
With the Teddington P-Series you can pivot the air discharge element in both directions, thereby individually adapting the air curtain to suit local conditions.



CORRIGO® raises lamella technology to a new level: compact, powerful and versatile.

-  **Energy-saving**
-  **Good air-conditioning**
-  **Improved sales psychology**
-  **Environmental protection**

P-Series with CORRIGO® air discharge system



- Versatile deployment of devices with adjustable CORRIGO® air discharge system
- Pre-assembled design for simple installation
- Suitable for almost all installation situations
- Stable, self-supporting housing
- Quality powder coating in RAL 9016 (white) configuration
- Three performance categories
- Three models
- Five lengths

- ✓ **Attractive design**
- ✓ **Quiet operation**
- ✓ **Low maintenance**
- ✓ **Filterless operation**
- ✓ **Simple operation using 5 or 3-stage controller**
- ✓ **Made in Germany quality**



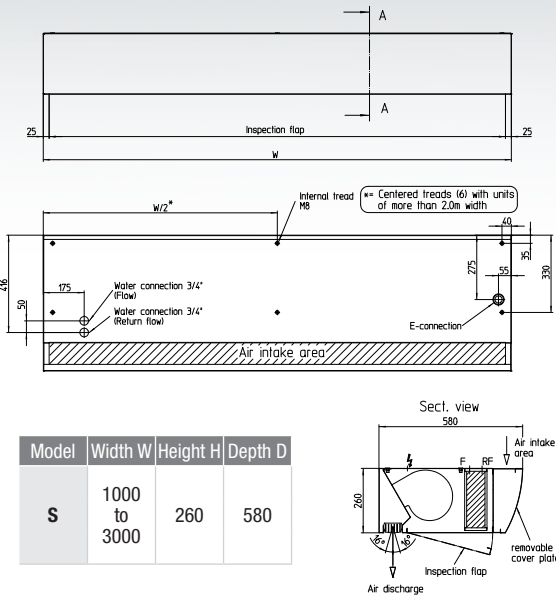
As with our GREENtec®, all details of our SMARTtec® devices have been carefully designed. They represent the optimum when it comes to conventional lamella technology.

MODELS

S Model



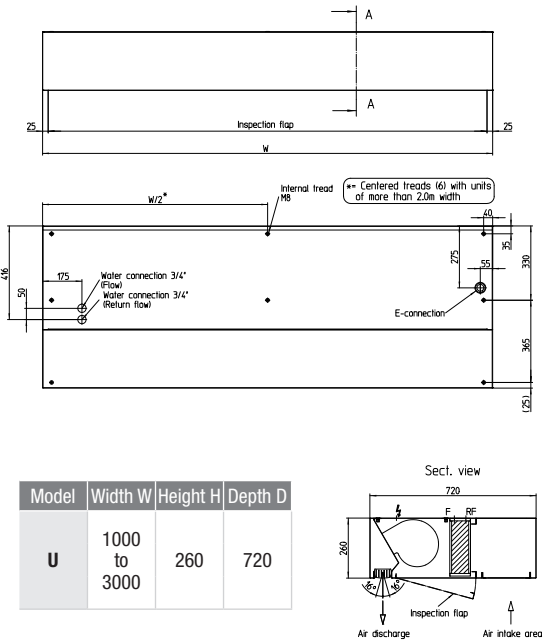
With visible wall or ceiling mounting.
Air intake area at the top.



U model



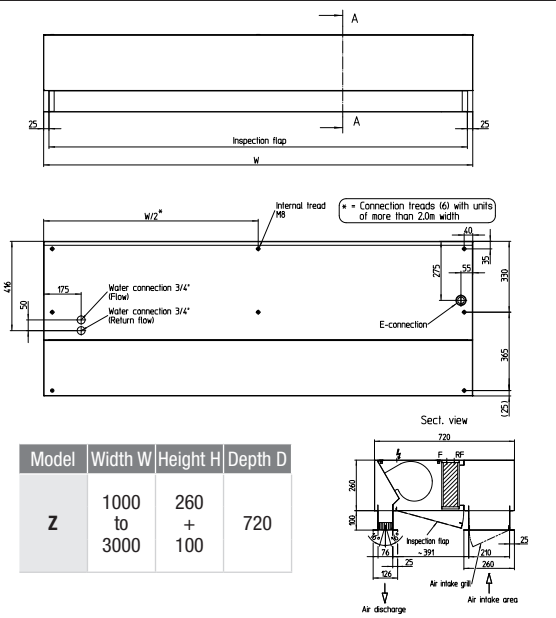
For exposed or recessed mounting, underside of the device is visible.
Air intake area at the bottom. Available with optional ceiling installation frame.



Z model



Suspended ceiling installation. Air intake area underneath.
Only air intake and discharge opening visible.



TECHNICAL DATA



Range		P Series 1					P Series 2					P Series 3				
Overall width	[cm]	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300
Max. installation height up to	[m]	2,3					2,6					3,0				
Max. air discharge speed	[m/s]	5,4					7,5					10,0				
Air volume	[m³/h]	1.400	1.800	2.700	3.600	4.100	1.900	2.700	3.800	4.600	5.400	2.700	3.600	5.400	6.300	7.200
Max. sound level	[dB(A)]	53	54	55	56	58	54	55	56	57	59	55	56	57	58	60
Weights S model	[kg]	40	45	65	75	100	40	50	70	90	105	42	65	80	100	120
Weights U model	[kg]	50	58	80	92	120	50	63	85	107	125	52	78	95	117	140
Weights Z model	[kg]	55	64	88	101	130	55	68	93	116	135	57	83	103	128	150
Weights ZS model	[kg]	45	50	70	81	110	45	56	80	102	115	48	71	90	110	130
Electrical data																
AC technology (maximum output data for conductor dimensions. The electrical output data in device operation are lower)																
Voltage	[V]	230					230					230				
Performance	[kW]	0,46	0,46	0,69	0,92	1,15	0,46	0,69	0,92	1,15	1,38	0,69	0,92	1,38	1,61	1,84
Power consumption	[A]	2,10	2,10	3,15	4,20	5,25	2,10	3,15	4,20	5,25	6,30	3,15	4,20	6,30	7,35	8,40
EC technology (maximum output data for conductor dimensions. The electrical output data in device operation are lower)																
Voltage	[V]	230					230					230				
Performance	[kW]	0,34	0,34	0,51	0,68	0,85	0,34	0,51	0,68	0,85	1,01	0,51	0,68	1,01	1,18	1,35
Power consumption	[A]	2,40	2,40	3,60	4,80	6,00	2,40	3,60	4,80	6,00	7,20	3,60	4,80	7,20	8,40	9,60
Technical data heater battery																
LTHW 70/50 at air intake temperature of 20 °C and max. air discharge temperature (installation type: air roll rotating inward)																
Heat output	[kW]	7,5	11,1	16,5	22,0	24,7	8,7	14,3	19,8	25,4	30,4	11,1	17,1	25,4	31,2	36,3
Air discharge temperature	[°C]	35,8	38,3	38,2	38,2	38,8	34,4	35,8	36,4	36,8	36,8	32,2	34,1	34,0	34,7	35,0
Flow rate	[m³/h]	0,30	0,50	0,70	1,00	1,10	0,40	0,60	0,90	1,10	1,30	0,50	0,70	1,10	1,40	1,60
Water resistance	[kPa]	2,03	2,80	4,11	5,16	3,41	2,67	4,41	5,68	6,63	4,94	4,07	6,00	8,78	9,55	6,76
Pipe connections																
Flow/return flow	[inches]	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
Electrical heater battery (three-stage, 400 V, 3 Ph, 50 Hz)																
Heat output	[kW]	9	12	18	18	24	9	12	18	18	24	15	23	30	36	45
Δt max.	[K]	18	19	19	14	17	14	12	14	11	12	16	17	16	16	17

Design

CNC manufactured sheet steel housing in modern design, powder coated in RAL 9016 (white) configuration.

Efficient CORRIGO® air discharge system for individual adaptation to suit local conditions.

TEDDINGTON Air Curtain Systems are manufactured to highest quality standards in accordance with DIN EN ISO 9001-2008.

Maintenance

The special device design means that no air filter is necessary. This guarantees low-maintenance operation. The easily accessible inspection flap on the underside of the device enables simple access for maintenance work.

Fans

Vibration-free mounted, double-sided air intake radial flow fans with 230 V / 50 Hz AC motors, directly driven, multiple blades, quiet operation with high outlet pressure. Full motor protection via thermal contacts.

Models with heater battery
Water-heated model

Standard model with heat exchanger made from Cu / Al for use in LTHW, heat exchangers made from Cu, connectors with ¾" internal thread to prevent twisting. Suitable for operation at water temperatures of between 80/60 °C and 60/40 °C.

Special heater batteries are also available for operation of the system in the low temperature range.

Electrically heated model

Electrical heater battery with resistant heating elements, corrosion-resistant with spiral lamella and thermal overheating protection.

Ambient model

The Ambient model without heater battery (circulating air operation) is used to screen cold rooms for example.

Order reference

P = item		1 = power setting
		2 = power setting
		3 = power setting
S = visible device		
U = visible device or device installed in ceiling recesses		
Z = flush-mounted ceiling device with air intake and discharge supports		
		100, 150, 200, 250, 300 = length in cm
		N = LTHW 90/70°C - 60/40°C
		NT = LTHW 60/40°C
		NNT = LTHW 45/35°C
		E = electrical heater battery
		K = circulating air operation (without heater battery)
P	2- S- 200 N	Example designation

The applicable electronic controller for the model of heater battery is included with your P-Series device and enables you to adjust the controls as required.

	TSC 5	TSC 3-E
LTHW controller	•	
Electrical controller		•
Three air volume levels		•
Five air volume levels	•	
External release	•	•
Summer/winter function	•	
Manual / automatic function	•	•
WFS-function	•	•
Potential-free operating message	•	•
Run-on function	•	•
Speed control from the DDC / BMS	•	•

Air volume control

TSC 5



5-stage electronic air volume controller to set operating parameters and LEDs to display operating statuses.

Manual / automatic operating mode with adjustable run-on time and ability to activate a base load level. Summer / winter function with activation of solenoid valve or pump. Display and evaluation of the frost alert using the optional frost protection thermostats.

In the event of a risk of frost, the integrated frost protection circuit switches the fans off and releases the valve or pump.

An external release, operating message and input (0-10 V) to change level are available for connection to the building management system.

The potential-free operating message indicates whether fans are running or are idle.

Connection of the control panel and connection to slave devices takes place using an RJ-45 cable (10 meters included with delivery).

Dimensions: 70 x 70 x 26 mm

TSC 3-E



3-stage electronic air volume controller for electrically heated air curtain devices to set operating parameters and LEDs to display operating statuses. Three settings each are available to set air volume and heat output. The heat output is locked using the fan level. Manual / automatic operating mode with adjustable run-on time and ability to activate a base load level.

An external release, operating message and input (0-10 V) to change level are available for connection to the building management system.

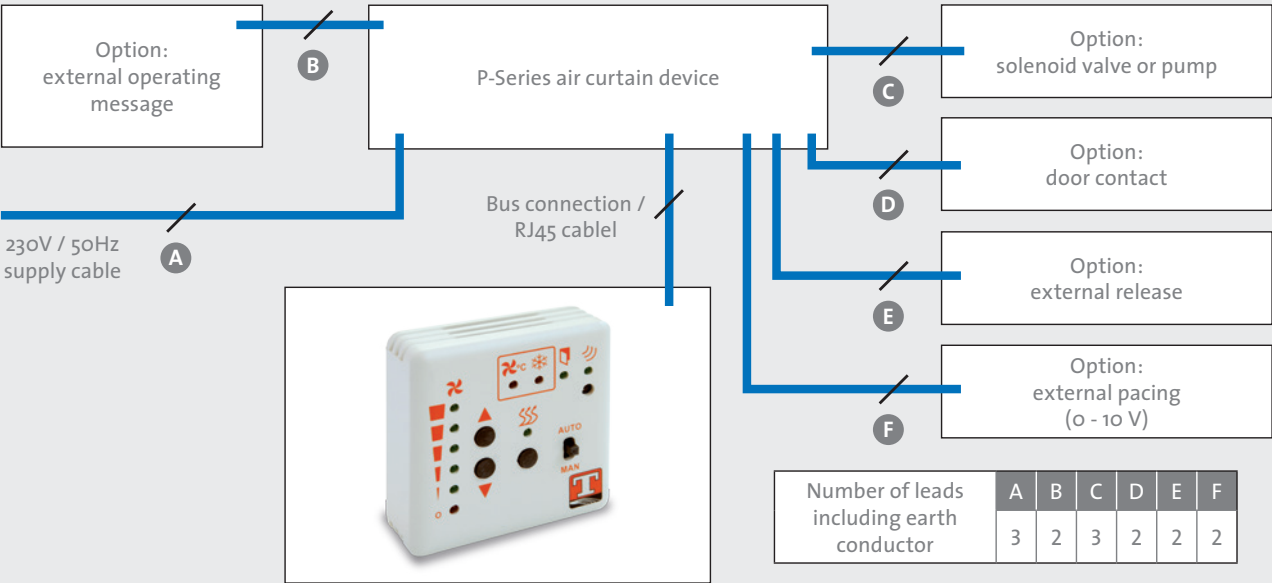
The potential-free operating message indicates whether fans are running or are idle.

Safety functions:

A run-on function controlled by a 50 °C thermostat switches the fans on in the event of excess residual heat after the system has been switched off. Overheating protection is provided by a 60 °C thermostat which switches the heating off and automatically switches to the preset heat level as soon as the temperature falls back below 60 °C. Overheating protection is provided by an 60 °C thermostat: the heating is switched off and locked. Connection of the control panel and connection to slave devices takes place using an RJ-45 cable (10 meters included with delivery).

Dimensions: 70 x 70 x 26 mm

Example of activation via the TSC 5 control unit



You can find detailed circuit diagrams and other technical information at www.teddington.de

Accessories



TSC 5-IR infrared remote control (for operation with TSC 5)



Mounting options



Door contacts



Thermostatic control valves



Room thermostats



Frost protection thermostats

We will be happy to advise you if you have any questions about our extensive range of accessories.

Devices for all applications.

Always the right system.

You will always find the right solution in our range of devices – from the smart entry model through to the high-end model to satisfy the most demanding requirements.

If you need something that is specific to your particular needs, we can develop a customised solution with you –
TEDDINGTON MANUFACTURING.



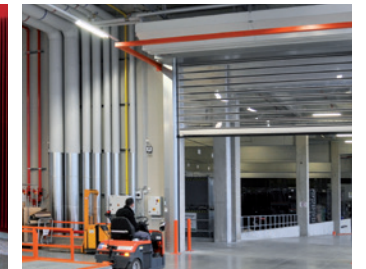
SHOP & BUSINESS

With a wide range of device models specially designed for operation in buildings with high demands on comfort.
Extremely quiet, unobtrusive and effective.



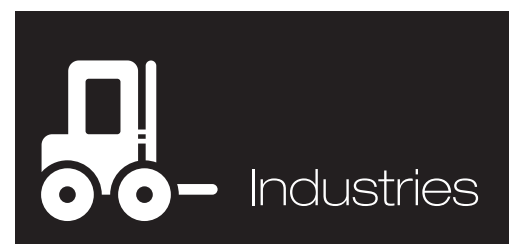
DESIGN

For the greatest visual demands and precisely adapted to suit various door situations.
Elegant surfaces, quality materials, the finest workmanship.



INDUSTRIES

With maximum output, fast reaction and adapted to suit specific requirements.
Extremely robust, high performance potential and optimum energy balance.



We have perfected the principle of “air doors” and in doing so have developed a wide range of applications.

Energy-saving air curtain systems can be used in the following areas:

-  **Shops & stores**
-  **Public buildings**
-  **Shopping malls**
-  **Industrial buildings & logistics centres**
-  **Banks & office buildings**

We are especially proud of having set new benchmarks through our innovations in air curtain technology. This enables us to offer our customers not only convenient solutions but also first and foremost the opportunity to save a great deal of energy and money.

Moreover Teddington air curtain systems make an important contribution to the protection of our valuable environment.



E-Series
E-Series SILENT
C-Series

ELLIPSE
CHARISMA
DELTA
SAPHIR
TOPAS
SINTRA

RATIOVENT
INDUVENT
FRIGUVENT



A-Series
P-Series

RONDO
TUBUS

ROBUVENT



E-Series
C-Series
A-Series



TEDDINGTON
AIR CURTAIN SYSTEMS



Innovative Technology



Greatest efficiency



Trend-setting design



Top quality



Perfect service

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