



A - S E R I E S

The smart solution for Shop & Business Equipped with the **CORRIGO**[®] air discharge system







The smart energysaving solution.

Expensive, heated air 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 **A-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 solution for efficiently screening doors up to 3.25 m 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 counterflow – an invisible air door.



With the Teddington A-Series you can pivot the 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





- 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
- Four performance categories
- 🥃 Four models
- 🥃 Five lengths



- **Quiet operation**
- **Low maintenance**
- Infinitely adjustable control of the EC fans or simple operation using 5 or 3-stage controller
 - Quality Made in Germany



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 front.



		Dimen	isions		Mounting				Inspect	Pip	e cor	Electrics				
	Width B	Height H	Total G	Depth T	a	b	С	d	е	f	k	I	m	n	i	j
1-S		260	-	555	40	35	295	-	346	B-50	416	175	50	95	275	55
2-S	1000	260	-	555	40	35	295	-	346	B-50	416	175	50	95	275	55
3-S	3000	260	-	555	40	35	295	-	346	B-50	416	175	50	95	275	55
4-S		290	-	610	40	50	325	-	400	B-50	466	175	50	95	330	55



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.

		Dimer	isions			Mou	nting		Inspect	Pip	Electric					
	Width B	Height H	Total G	Depth T	a	b	C	d	е	f	k	Т	m	n	i	j
1-U		260	-	720	40	35	295	365	346	B-50	416	175	50	95	275	55
2-U	1000	260	-	720	40	35	295	365	346	B-50	416	175	50	95	275	55
3-U	3000	260	-	720	40	35	295	365	346	B-50	416	175	50	95	275	55
4-U		290	-	800	40	50	325	400	400	B-50	466	175	50	95	330	55





Z model



underneath. Only air intake and discharge

		Dimer	isions			Mou	nting		Inspect	ion flap	Pipe connection					
	Width B	Height H	Total G	Depth T	a	b	C	d	е	f	k	I	m	r		
1-Z		260	360	720	40	35	295	365	346	B-50	416	175	50	9		
2-Z	1000	260	360	720	40	35	295	365	346	B-50	416	175	50	9		
3-Z	3000	260	360	720	40	35	295	365	346	B-50	416	175	50	9		
4-Z		290	390	800	40	50	325	400	400	B-50	466	175	50	9		

ZS model

opening visible.





Suspended ceiling installation. Air intake at the front in the suspended ceiling. Only air discharge opening visible.

		Dimer	Mounting				Inspect	Pipe connection				Elec	trics	Air intake/air discharge supports					
	Width B	Height H	Total G	Depth T	a	b	C	d	e	f	k	I	m	n	i	j	р	q	r
1-ZS		260	360	555	40	35	295	-	346	B-50	416	175	50	95	275	55	126	-	-
2-ZS	1000	260	360	555	40	35	295	-	346	B-50	416	175	50	95	275	55	126	-	-
3-ZS	3000	260	360	555	40	35	295	-	346	B-50	416	175	50	95	275	55	126	-	-
4-ZS		290	390	610	40	50	325	-	400	B-50	466	175	50	95	330	55	126	-	-







TECHNICAL DATA

Range				A1					A2					A3					A4		
Overall width	[cm]	100	150	200	250	300	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					3,25		
Max. air discharge speed			5,4			7,5							10,0								
Air volume	[m ³ /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	2.900	4.350	5.800	7.250	8.700
Noise level at a distance of 3 m to the side	53	54	55	56	58	54	55	56	57	59	55	56	57	58	60	58	60	62	63	64	
Weight S model	[kg]	40	45	65	75	100	40	50	70	90	105	42	65	80	100	120	80	95	130	150	195
Weight U model	[kg]	50	58	80	92	120	50	63	85	107	125	52	78	95	117	140	100	120	160	180	240
Weight Z model	[kg]	55	64	88	101	130	55	68	93	116	135	57	83	103	128	150	105	130	175	200	250
Weight ZS model	[kg]	45	50	70	81	110	45	56	80	102	115	48	71	90	110	130	90	105	145	160	205
Electrical data																					
AC technology																					
Voltage	[V]			230					230					230					230		
Performance	[kW]	0,35	0,49	0,74	0,99	1,02	0,49	0,74	0,99	1,23	1,48	0,74	0,99	1,48	1,73	1,97	0,88	1,32	1,76	2,20	2,64
Power consumption	[A]	1,52	2,14	3,21	4,28	4,42	2,14	3,21	4,28	5,35	6,42	3,21	4,28	6,42	7,49	8,56	3,84	5,76	7,68	9,60	11,52
EC technology																					
Voltage	[V]			230					230					230					-		
Performance	[kW]	0,34	0,34	0,51	0,68	1,85	0,34	0,51	0,68	1,85	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 te	mperatu	re of 20	D°C and	max. a	ir discl	narge te	emperati	ure (inst	allation	type: air	roll rota	ting inwa	ard)								
Heat output	[kW]	9,9	14,4	22,0	29,6	35,4	12,1	19,0	27,8	35,0	42,8	15,0	22,8	34,8	43,0	51,8	19,8	3,04	43,6	54,0	67,0
Air discharge temperature	[°C]	41,0	44,0	44,0	44,5	45,7	39,0	41,0	41,7	42,7	43,6	37,0	39,0	39,0	40,3	41,4	40,3	40,8	42,3	42,2	42,9
Flow rate	[m³/h]	0,40	0,60	1,00	1,30	1,60	0,50	0,80	1,20	1,50	1,90	0,70	0,64	1,50	1,90	2,30	0,90	1,30	1,90	2,40	2,90
Water resistance	[kPa]	1,49	1,42	2,64	3,89	6,46	2,11	2,30	3,97	5,21	9,02	3,10	3,19	5,91	7,48	12,60	5,22	2,44	6,25	3,70	6,57
LTHW 70/50 at air intake te	mperatu	re 20°C	C and ai	r disch	arge tei	mperati	ure 35°C	(installa	ation for	m air rol	I rotatin	g inward	ls)								
Heat output	[kW]	8,7	11,2	16,8	22,4	25,5	11,8	16,8	23,6	28,6	33,6	16,8	22,4	33,6	39,2	44,8	18,0	27,0	36,1	45,1	54,1
Flow rate	[m ³ /h]	0,37	0,48	0,72	0,96	1,10	0,51	0,72	1,02	1,23	1,44	0,72	0,96	1,44	1,68	1,92	0,77	1,16	1,55	1,94	2,32
Water resistance	[kPa]	1,09	0,86	1,39	2,04	3,15	1,84	0,91	2,59	3,08	5,35	3,10	2,77	5,13	5,39	8,13	4,03	1,66	3,93	2,33	4,14
LTHW 70/50 at air intake te	mperatu	re 10°C	c and ai	r disch	arge tei	mperati	ure 35°C	(installa	ation for	m air rol	I rotatin	g outwar	rds)								
Heat output	[kW]	12,8	16,5	24,7	32,9	37,5	17,4	24,7	34,7	42,0	49,4	24,7	32,9	49,4	57,6	65,8	26,5	39,8	53,0	66,3	79,5
Flow rate	[m³/h]	0,55	0,71	1,06	1,41	1,61	0,75	1,06	1,49	1,81	2,10	1,06	1,41	2,12	2,48	2,8	1,14	1,71	2,28	2,85	3,42
Water resistance	[kPa]	2,43	2,29	4,19	6,13	10,09	3,45	3,71	6,31	8,23	14,10	5,07	5,14	9,42	11,83	19,75	7,82	3,69	9,28	5,84	10,26
LTHW 60/40 at air intake te	mperatu	re 20°C	C and ai	r disch	arge tei	mperati	ure 32°C	(installa	ation for	m air rol	I rotating	g inward	ls)								
Heat output	[kW]	6,1	7,9	11,8	15,8	18,0	8,3	11,8	16,7	20,2	23,7	11,8	15,8	23,7	27,6	31,6	12,7	19,1	25,4	31,8	38,2
Flow rate	[m ³ /h]	0,26	0,34	0,51	0,68	0,77	0,36	0,51	0,72	0,87	1,02	0,51	0,68	1,02	1,19	1,36	0,55	0,82	1,09	1,37	1,64
Water resistance	[kPa]	0,73	0,73	1,43	2,15	3,68	1,05	1,19	2,14	2,87	5,11	1,53	1,64	3,17	4,10	7,11	2,70	1,22	3,32	2,04	3,72
Pipe connections																					
Flow/return flow	[inches]	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4	3⁄4
Electrical heater battery (th	ree-stag	je, 400	V, 3 Ph,	50 Hz)																	
Stage 1/2/3	[kW]	3/6/9	4/8/12	6/12/18	6/12/18	8/16/24	3,5/8,5/12	5/12,5/17,5	6/17/23	8/20/28	10/25/35	5/10/15	7,5/15/22,5	5 10/20/30	12/24/36	15/30/45	5/10/15	7,5/15/22,5	10/20/30	12/24/36	15/30/45
dt max.	[K]	17,9	18,6	18,6	14,0	16,3	17,6	18,1	16,9	17,0	18,1	15,5	17,4	15,5	15,9	17,4	14,4	14,4	14,4	13,9	14,4

Design

CNC manufactured sheet steel housing in modern design, powder coated in RAL 9016.

Efficient **CORRIGO**[®] air discharge system individually adapted to suit local conditions.

Teddington air curtain systems are manufactured to highest quality standards in accordance with DIN EN ISO 9001:2008.

Mounting

Simple mounting of the device by means of M 8 internal thread on the top of the housing and optional mounting material.

Maintenance

Easily accessible inspection flap on the underneath of the device with hinges on one side. Regenerative Grade 2 filter element behind the air intake grid ensures a constant high level of heat transfer and durability of the device.

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. Actuation using a standard 5-stage transformer installed in the device.

Full motor protection via thermal contacts.

Optionally available with extremely efficient EC fans for maximum air output and minimum energy consumption.

Order key

Α	1-	S -100	Ν	9016 = Example								
				9016 = in RAL 9016. Other colours possible								
			E =	Electrical heater battery								
		NT = Hot water pump 60/40 °C										
			N =	= Hot water pump 70/50 °C								
		100	, 15(0, 200, 250, 300 = overall width in cm								
		ZS = F	lush	-mounted ceiling device								
		Z = Flush-mounted ceiling device										
		U = Flush-mounted ceiling device										
		$\mathbf{S} = Visible device$										
	4 = Range (power setting)											
	3 = Range (power setting)											
	2	2 = Range (power setting)										
	1	= Rang	e (po	ower setting)								
A = ar	tic	le										

Subject to technical change.

TEDDINGTON AIR CURTAIN SYSTEMS



Models with heater battery

Water-heated model

Heat exchanger made of Cu/AL for hot water pumps, accumulator made of Cu, connections with internal thread $\frac{3}{4}$ ", secured to prevent twisting.

Electrically heated model

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

Controller

A range of 5 different electronic controllers and extensive accessories for heat control are available to facilitate individual control comfort.

TLC 700 The intelligent controller for complex systems



With the TLC 700 controller you can precisely adapt your Teddington air curtain system to suit the most diverse requirements.

You can see your system with actual status in real time on the touch display and have all functions and parameters clearly in view.

This makes the programming and setting of the wide-ranging functions and options extremely simple and intuitive. An installation assistant guides you through the menu and supports you with commissioning. An information button is available for every function so that you can access all information

quickly.

Sophisticated technology and user-friendly intelligence



Multifunctional

With its multi-device capability, the TLC 700 as central controller can regulate up to 9 units in parallel or individually.

All using a single control unit with touchscreen. This avoids the need to procure and install several control units, saving time and money.



Every Master unit can be differently and individually programmed using the controller. Setting can also be assumed for all Master units. This means a multitude of configurations can be realised, which can be precisely adapted to building requirements.

Simple to program

The devices can be adjusted quickly and safely using the touchscreen with intuitive user guidance.

High process reliability

The climate in buildings is subject to dynamic processes. Several factors, from the outdoor temperature or wind pressure, through to the impact of heat emitted by lighting and technical equipment, have an influence on the temperatures inside buildings. The TLC 700 controller regularly polls a system of sensors and automatically regulates the air curtain systems accordingly.

Perfect integration

The new TLC 700 controller can be integrated in all building management systems via coupling modules. It is therefore possible to incorporate the air curtain devices in the overall concept for the heating and air conditioning technology and the fire protection and safety technology.

TEDDINGTON AIR CURTAIN SYSTEMS



The TLC 700 is freely programmable as electronic remote control for 5-stage or infinitely adjustable activation of Teddington air curtain systems.

Each function – perfectly thought through



Integrated room temperature sensor to control the heating function and display the current room temperature.



Integrated filter monitoring which can easily be adapted on site to suit operating conditions.



Retrieval of error messages by means of an error memory with battery back-up for remote diagnosis.



Integrated clock with freely selectable programming of switching times for enabling or automatic mode and date display.



Key lock with adjustable code can be activated.



Summer/winter function, activation of solenoid valve and/or pump. Automatic summer/winter changeover by means of outside temperature sensor and electronic air discharge temperature control.

Accessories

Thermostats



FTE frost protection thermostat

To safeguard hot water heater batteries, with capillary tube sensor, capillary tube length 3 m, intrinsically safe, pre-installed in the device as single-pole potential-free toggle, protection class IP 30.



FTM electronic frost protection thermostat

Only in combination with our electronic controllers. With capillary tube sensor, capillary tube length 0.9 m, protection class IP 30, pre-assembled in the device, only suitable for low voltage (open contacts).



ERT electromechanical room air thermostat

5 - 30°C with bimetal, pure white (similar to RAL 9010), switching capacity 230 V AC, 50...60 HZ, toggle (changeover) 10 (4 = inductive load) A, differential gap 0.5 K, protection class IP 30, air humidity 0...95 % non-condensing, operating temperature 0...40°C, thermal feedback, dimensions 75 x 75 x 25 mm.

Repair switches



REP-S repair switch

For switching the system off using the software. Only in combination with our electronic controllers. Switch pre-assembled in the device behind the inspection cover.



REP-L repair switch

3-pole repair switch in surface-mounted housing, loose in accessory pack, for customer installation in the device supply line.

Door contacts



TK model door contact

Protection class IP 65, jump feed with H-jumpers and full contact up to the changeover point, touch-proof connecting terminals in accordance with VDE 0106 Part 100 (VBG 4), cable entry 2 x PG 13.5, at the bottom and the side, switching voltage 230 V AC, 24 V DC, switching current 6 A AC, 4 A DC.



TKB model door contact

Contactless door contact in protection class IP 00, consisting of reed contact and permanent magnet for working current circuits (contact open when magnet is applied), switching voltage 100 V DC, switching current 250 mA DC.

Control/shut-off and solenoid valves



Thermostatic control valve (angle valve) KR-2 with thermostatic head, for regulation of a constant air discharge temperature, completely installed. Special valve to control especially high volumes of water. kvs value 7.0, length of capillary tube sensor 2 m, connection DN 20.





Thermostatic control valve (three way valve) KR 3-L with thermostatic head, for regulation of a constant air discharge temperature, loose in accessory pack. Special valve to control especially high volumes of water. Length of capillary tube sensor 2 m, DN 20 kvs 4.5, DN 25 kvs 6.5, DN 32 kvs 9.5.

kvs value 5.0. Connection DN 20.

Model MR 2-E DN 20 built-in control valve

Control valve (angle valve) MR 2, with electric actuator to adjust a constant air discharge temperature, including air discharge temperature sensor, completely installed and wired. The type MR-2 control valves are special valves to regulate especially high volumes of water; kvs value 7.5. Connection DN 20.

MV solenoid valve

230 V, normally closed, gentle closing, for shutting off water via the summer/winter switch, loose in accessory pack. DN 20 kvs 11; DN 25 kvs 13; DN 32 kvs 30.

Brackets



DH ceiling bracket

DHD deluxe ceiling bracket

Mounting bracket, vibration damper 17 dB, turnbuckle, right-left grub screw, 1 m threaded rods, locknut and counter nut, drive-in dowel, minimum space requirement 0.2 m, suspension length 1.1 m (number of units depends on device length and model).

TEDDINGTON AIR CURTAIN SYSTEMS



Model KR 2-E DN 20 built-in thermostatic control valve

Model KR 2-L DN 20 thermostatic control valve

Thermostatic control valve (straight way valve) KR-2 with thermostatic head, for regulation of a constant air discharge temperature, loose in accessory pack. Special valve to control especially high volumes of water. kvs value 5.0, length of capillary tube sensor 2 m, connection DN 20.

Model KR 3-L DN 20/25/32 thermostatic control valve

Model TAV thermoelectric shut-off valve

230 V, normally closed, loose in accessory pack, for shutting off water via summer/winter switch or to regulate water flow rate volumes with customer actuator. Special valve to control especially high volumes of water.

Mounting bracket, vibration damper, 1 m threaded rods, locknut and counter nut, anchor bolt, minimum space requirement 0.1 m, suspension length 1 m (number of units depends on device length and model)

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.

GREENte

chamber nozzle technology

CONVERGO[®]

The green technology for energy efficiency with EC technology and the **CONVERGO**[®] pressure

E-Series

C-Series

A-Series

P-Series

L-Series







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.





The efficient devices for refrigerant operation.

E-Series C-Series A-Series

TEDDINGTON AIR CURTAIN SYSTEMS



DESIGN

For the greatest visual demands and precisely adapted to suit various door situations.

INDUSTRIES

With maximum output, fast reaction and adapted to suit specific requirements.

- Ellipse
- Charisma
- Delta
- Saphir
- Topas
- Sintra
- Silent

Ratiovent

Induvent Friguvent

Ratiovent





Innovative Technology



Greatest efficiency



Trend-setting design



Top quality



Perfect service



Teddington Luftschleieranlagen GmbH

Industriepark Nord 42 · D-53567 Buchholz (Mendt)

Phone +49 (2683) 9694-0 · Fax +49 (2683) 9694-50 info@teddington.de · www.teddington.de