

## C-Series S-V

### Flexible Air Curtain for visible vertical installation

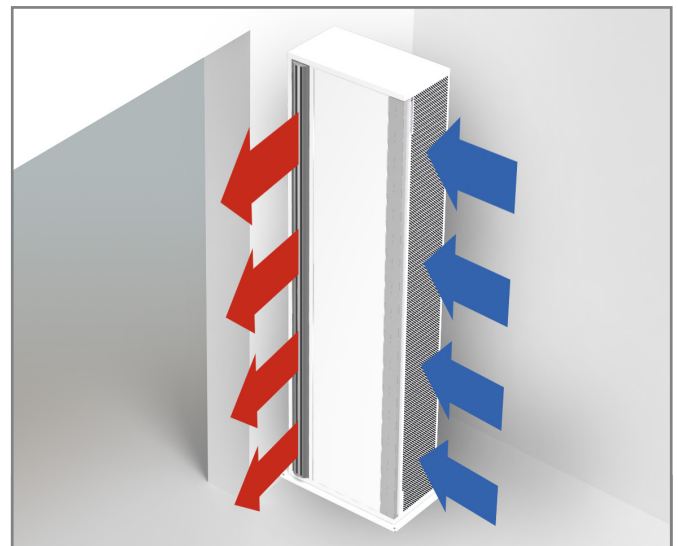
The C-Series sets new standards in terms of effectiveness, energy efficiency and functionality. Future-oriented technology, high quality and workmanship, maximum flexibility and trend-setting design make the C-Series a reliable all-rounder for every need and every situation.

#### Application

The C-series Air Curtain housing type S-V is the vertical version of the C-Series for positioning to the right and/or left of the door. The air intake is from the room side and creates an effective separation of indoor and outdoor air. It complements our portfolio of vertical units with an Air Curtain in the classic, rectangular shape. The C-Series S-V is also suitable for use on industrial doors up to 3.0 m high.

#### Teddington works

Crucial for the successful shielding of doors and gates is the interplay between air discharge speed and air volume. The CONVERGO® pressure chamber nozzle system developed and patented by Teddington has been optimized for this purpose and ensures maximum shielding across the entire door.



#### Housing type S-V

Vertical visible installation,  
air intake at the front.



## VARIOUS OPTIONS

### Heating modes



The Teddington C-Series is available as an ambient unit without heating and can be heated in the versions LTHW (water) or electric.

### 2 power levels



The Teddington C-Series S-V is available in two power levels. This means that your Air Curtain is configured precisely for the respective requirement in order to guarantee optimum shielding and the lowest possible energy consumption.

### Shielding up to 4.0 m door width



Our powerful and fast-starting E-series fans, combined with our patented in conjunction with our patented CONVERGO® pressure chamber nozzle system allow a maximum door width of 4.0 m (units on both sides) or 2.6 m (unit on one side) when installed vertically.

### AC or EC fans



A distinction is made between two fan technologies: AC and EC. Teddington is one of the few Air Curtain manufacturers to offer both technologies. This allows us to respond flexibly to project requirements and offer the optimal unit.

**AC:** The fast-starting AC fans are particularly suitable for doors and gates that open and close quickly or are only open for a short time.

**EC:** The energy-saving and infinitely variable EC fans are particularly suitable for doors and gates that are open for long periods (e.g. open glass front of a shop).

## TCX - Our most innovative control system

With the TCX controller generation, you can now control your Teddington Air Curtain system even more easily and clearly. Just a few steps are all it takes for reliable configuration according to your requirements. Whether for a single Air Curtain system or a complex system grouping. TCX – the perfect controller for your Air Curtain system.

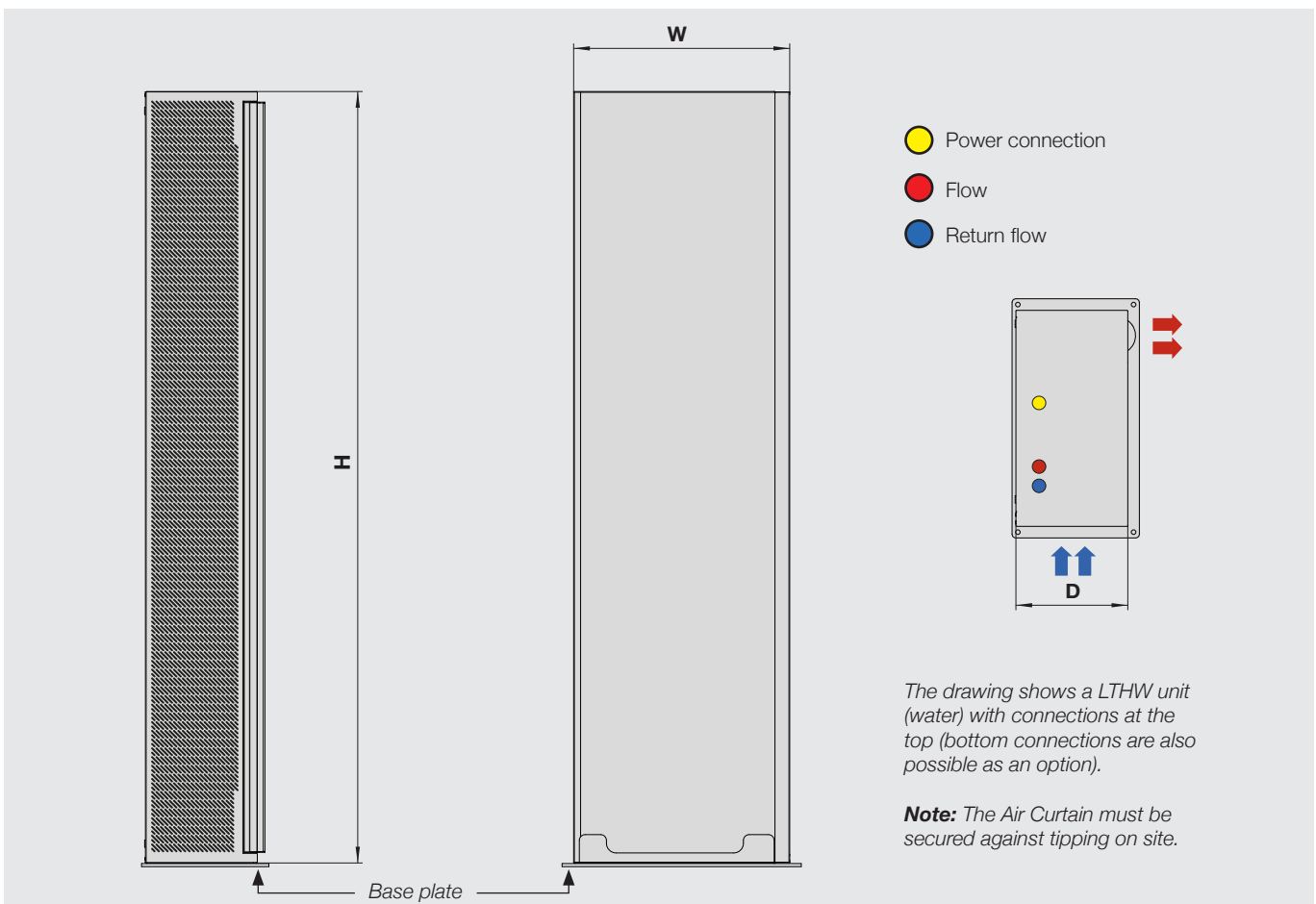




# TECHNICAL DATA

	Power level	C-Series 1					C-Series 2				
	Height of the unit (cm)	100	150	200	250	300	100	150	200	250	300
<b>Performance data</b>											
Max. recommended door width (one-sided standing)	[m]	2.20					2.60				
Max. nominal flow rate	[m³/h]	1960	2940	3920	4900	5880	1960	3920	4900	5880	6860
Max. effective flow rate*	[m³/h]	1500	2350	3150	3900	4700	1600	2950	3700	4500	5250
Average air discharge speed*	[m/s]	14					15.5				
<b>Sound pressure level at a distance of 3 metres to the sound source (anechoic chamber)</b>											
Max. operating level	[dB(A)]	56.5	57.5	59.5	61.5	64.5	58.0	58.5	61.5	63.5	64.5
<b>Standard operating level</b>	<b>[dB(A)]</b>	<b>48.0</b>	<b>49.0</b>	<b>50.5</b>	<b>53.0</b>	<b>54.0</b>	<b>50.0</b>	<b>51.0</b>	<b>53.5</b>	<b>56.0</b>	<b>57.0</b>
Minimum operating level	[dB(A)]	38.0	39.0	40.5	43.0	44.0	39.0	40.0	42.5	45.0	46.0


\*Data are based on measurements in accordance with ISO 27327 conducted by the Institute of Air Handling and Refrigeration (ILK) in Dresden




	Power level	C-Series 1					C-Series 2					
	Height of the unit (cm)	100	150	200	250	300	100	150	200	250	300	
<b>Measurements</b>												
Height (without base plate)	H	[mm]	1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Depth (without base plate)	D	[mm]	290	290	290	290	290	290	290	290	290	290
Width (without base plate)	W	[mm]	560	560	560	560	560	560	560	560	560	560
Dimensions of the base plate	[mm]	H = 8 mm, D = 330 mm, W = 620 mm					H = 8 mm, D = 330 mm, W = 620 mm					
Weight without heater battery	[kg]	40	58	73	90	106	40	61	77	94	110	
Weight with heater battery	[kg]	46	65	84	103	122	46	69	88	107	126	




# TECHNICAL DATA

	Power level	C-Series 1					C-Series 2				
	Height of the unit (cm)	100	150	200	250	300	100	150	200	250	300
<b>Technical data of fans (230 V)</b>											
<b>AC technology</b>											
Output	[kW]	0.37	0.56	0.74	0.93	1.11	0.37	0.74	0.93	1.11	1.30
Power consumption	[A]	1.70	2.55	3.40	4.25	5.10	1.70	3.40	4.25	5.10	5.95
<b>EC technology</b>											
Output	[kW]	0.34	0.51	0.68	0.85	1.01	0.34	0.68	0.85	1.01	1.18
Power consumption	[A]	2.70	4.05	5.40	6.75	8.10	2.70	5.40	6.75	8.10	9.45

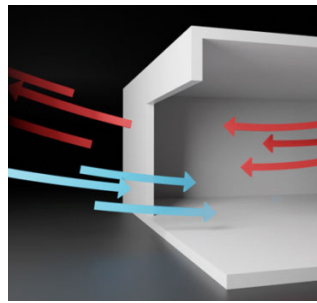
	Power level	C-Series 1					C-Series 2				
	Height of the unit (cm)	100	150	200	250	300	100	150	200	250	300
<b>Technical data of LTHW heater battery</b>											
<b>Pipe connections</b>											
Flow / Return flow	[Zoll]	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
<b>LTHW 70/50 at an air intake temperature of 20°C and air discharge temperature of 32°C</b>											
Heat output	[kW]	6.42	9.91	13.11	16.07	20.99	7.00	12.99	15.57	19.81	22.45
Flow rate	[m³/h]	0.30	0.40	0.60	0.70	0.90	0.30	0.60	0.70	0.90	1.00
Water resistance	[kPa]	0.70	0.74	1.07	1.53	2.59	0.81	1.19	1.44	1.92	2.91
<b>LTHW 70/50 at an air intake temperature of 10°C and air discharge temperature of 32°C</b>											
Heat output	[kW]	11.34	17.71	24.27	29.45	34.49	12.22	22.51	27.63	33.91	40.02
Flow rate	[m³/h]	0.50	0.80	1.10	1.30	1.50	0.50	1.00	1.20	1.50	1.80
Water resistance	[kPa]	1.90	2.05	3.15	4.44	6.20	2.16	3.13	3.96	4.95	8.05
<b>LTHW 50/35 at an air intake temperature of 20°C and max. air discharge temperature</b>											
Heat output	[kW]	4.82	13.71	12.38	14.24	20.52	5.05	9.76	13.76	17.74	22.1
Air discharge temperature	[°C]	29.36	27.19	31.4	30.62	32.7	29.17	29.63	30.82	31.47	32.25
Flow rate	[m³/h]	0.30	0.80	0.70	0.80	1.20	0.30	0.60	0.80	1.00	1.30
Water resistance	[kPa]	0.80	2.31	1.71	2.18	4.39	0.80	1.27	2.05	2.80	5.01

Ask our experts for data on your individual media temperatures.

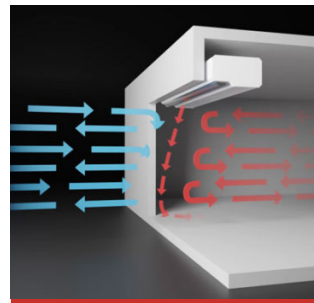
	Power level	C-Series 1					C-Series 2				
	Height of the unit (cm)	100	150	200	250	300	100	150	200	250	300
<b>Technical data electrical heater battery</b>											
<b>Electrical heater battery (three-stage, 400V, 3 Ph, 50 Hz)</b>											
Level 1	[kW]	3.0	4.5	6.0	6.0	9.0	3.0	6.0	6.0	9.0	12.0
Level 2	[kW]	6.0	9.0	12.0	18.0	18.0	9.0	12.0	18.0	18.0	24.0
Level 3	[kW]	9.0	13.5	18.0	24.0	27.0	12.0	18.0	24.0	27.0	36.0
Max dt.	[K]	17	15	16	17	16	21	17	18	17	19



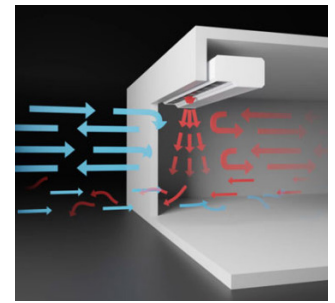
**Example:**  
**Comparison**  
**of energy**  
**consumption**



**Door without  
Air Curtain system**



**Door with  
Teddington  
Air Curtain system**



**Door with  
conventional  
Air Curtain system**

Energy consumption winter\*: ~ 41.100 kWh

Energy consumption summer\*\*: ~ 18.300 kWh

~ 16.800 kWh

~ 4.800 kWh

~ 23.400 kWh

~ 6.900 kWh

**Energy savings with Teddington Air Curtain system compared to a door without Air Curtain system**

Savings	Door without Air Curtain system	Door with Teddington Air Curtain system
Energy consumption winter*: <b>59%</b>	~ 41.100 kWh	~ 16.800 kWh
Energy consumption summer**: <b>74%</b>	~ 18.300 kWh	~ 4.800 kWh

**Energy savings with Teddington Air Curtain system compared to a door with conventional Air Curtain system**

Savings	Door with conventional Air Curtain system	Door with Teddington Air Curtain system
Energy consumption winter*: <b>28%</b>	~ 23.400 kWh	~ 16.800 kWh
Energy consumption summer**: <b>30%</b>	~ 6.900 kWh	~ 4.800 kWh

\* heated inside

\*\* cooled down inside

**Assumptions on which the calculation is based:**

- Door dimensions 2.5 x 2.5 m, installation height 2.5 m, door opening time 3 h per day.
- The system is in operation for 4 months in summer at a temperature difference (inside/outside) of 10 K.
- The system is in operation for 6 months in winter at a temperature difference (inside/outside) of 15 K.
- The system is out of operation for 2 months as the temperature difference between inside and outside is equalised.
- During operation in winter, a heat exchanger is used in the Air Curtain unit to heat the discharged air.

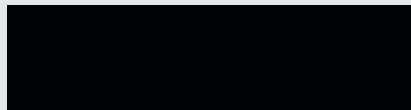


## Individual colours

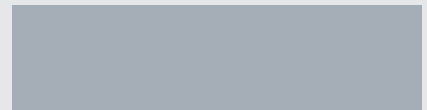
Teddington Air Curtain systems are powder-coated to a high quality. Our units are manufactured in RAL 9016 Traffic White as standard. On request, you can choose from six timeless colours for a small surcharge. – Would you like a very special colour? Talk to us about your desired colour.



**RAL 7011**  
Iron Grey



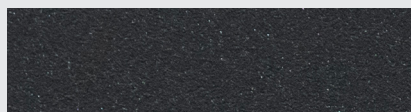
**RAL 9005**  
Deep Black



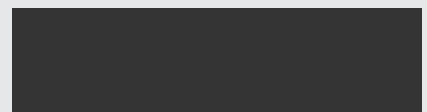
**RAL 9006**  
White Aluminium



**RAL 9010**  
Pure White



**Black grey metallic**  
Metallic fine structure / matt



**DB 703**  
Dark Grey



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