TEDDINGTON
AIR CURTAIN SYSTEMS

Induvent U

Compact and powerful industrial air curtain for horizontal installation

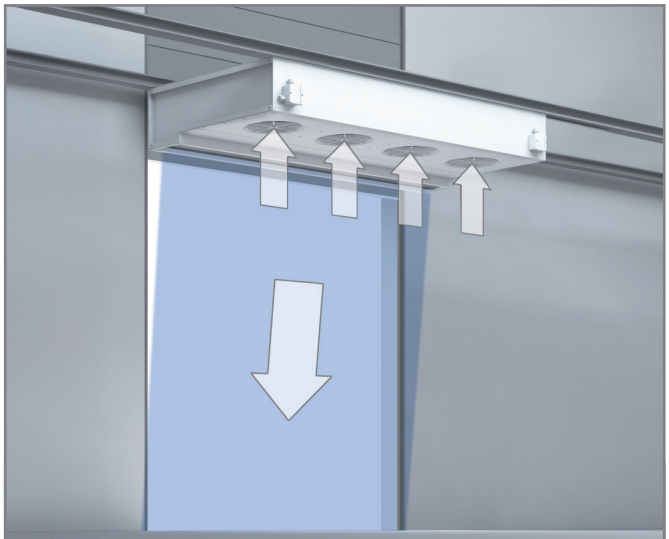
Induvent air curtains are designed for universal use in all industrial sectors. The patented CONVERGO® nozzle technology ensures a great air discharge range with minimum energy consumption.

Application

The air intake of the Induvent housing type U is from below. The air discharge is directly at the door.

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 U

Horizontal installation, air intake from below.

VARIOUS OPTIONS

Modular unit length

Our air curtain systems are manufactured in predefined lengths. The available lengths of the Induvent as individual units start at 1.50 m and go up to 3.00 m in 0.50 m increments. The individual units can be combined into several units to cover all possible door sizes.

Heating modes

The Teddington Induvent is available as an ambient unit without heating.

Air discharge range up to 4.0 m

Our powerful and fast-starting Induvent fans, in conjunction with our patented CONVERGO® pressure chamber nozzle system allow a maximum installation height of up to 4.0 m.

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 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 gates that are open for long periods.

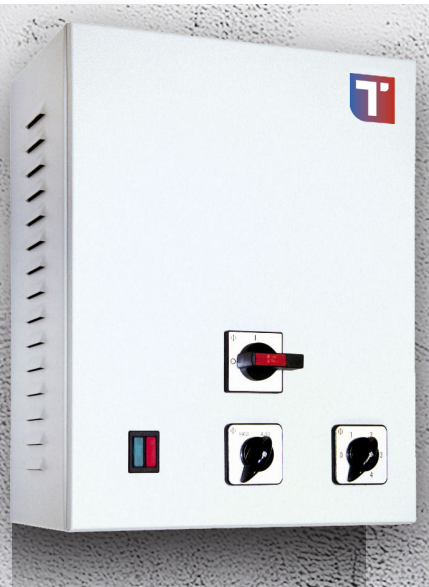
Installation types

Depending on whether there is positive or negative pressure inside the building, there are two different types of installation of the air curtain system which are used: IDW (internally rotating air roll) or ADW (externally rotating air roll) installation.

TCI-230 industrial controller

The TCI-230 controller offers all the options you need for your industrial air curtain system. The robust design ensures high reliability in daily operation.

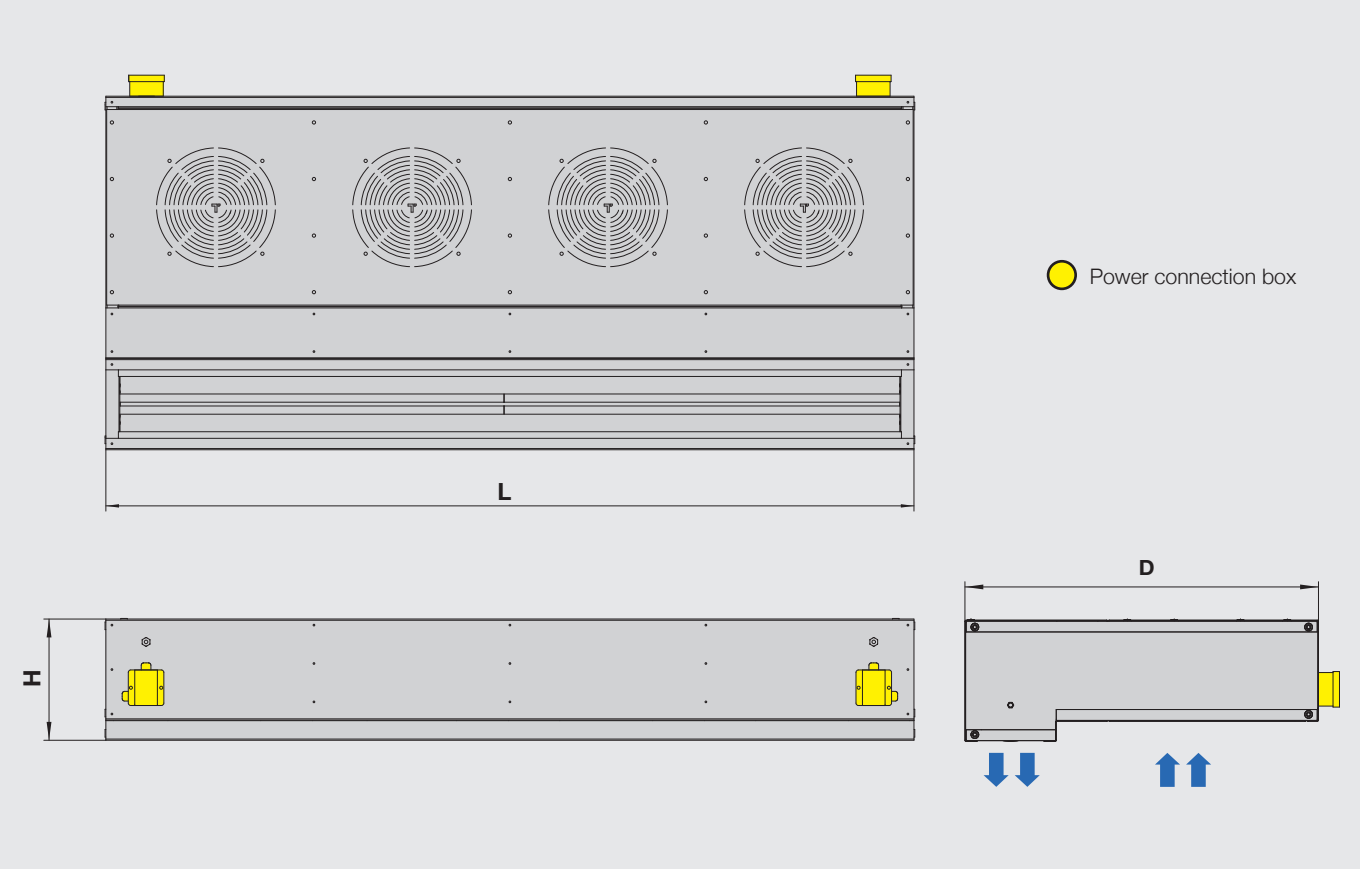
- Protection class IP 54
- Perfect integration
- High process reliability
- Robust design



TECHNICAL DATA

		Induvent single unit				Induvent multiple unit					
Length of the unit (cm)		150	200	250	300	350	400	450	500	550	600
consisting of		-	-	-	-	150 / 200	200 / 200	200 / 250	250 / 250	250 / 300	300 / 300
Performance data											
Max. recommended installation height	[m]	4.00				4.00					
Max. nominal flow rate	[m³/h]	6900	9200	11600	13800	16100	18400	20800	23200	25400	27600
Max. effective flow rate*	[m³/h]	4400	5900	7350	8850	10300	11800	14750	14700	16200	17700
Average air discharge speed*	[m/s]	16.5				16.5					
Sound pressure level at a distance of 3 metres to the sound source (anechoic chamber)											
Depending on the operating level	[dB(A)]	34-60	35-61	37-62	37-63	38-64	38-65	38-65	38-65	38-65	38-65

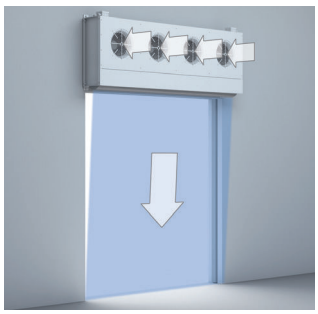
*Data are based on measurements in accordance with ISO 27327 conducted by the Institute of Air Handling and Refrigeration (ILK) in Dresden



			Induvent single unit				Induvent multiple unit					
Length of the unit (cm)			150	200	250	300	350	400	450	500	550	600
consisting of			-	-	-	-	150 / 200	200 / 200	200 / 250	250 / 250	250 / 300	300 / 300
Measurements												
Length	L	[mm]	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
Depth	T	[mm]	875	875	875	875	875	875	875	875	875	875
Height	H	[mm]	300	300	300	300	300	300	300	300	300	300
Weight		[kg]	75	95	105	120	170	190	200	210	225	240
Side fixing points (right + left)		[pcs.]	4 + 4	4 + 4	4 + 4	4 + 4	4 + 4	4 + 4	4 + 4	4 + 4	4 + 4	4 + 4
Rear fixing points		[pcs.]	4	4	4	4	8	8	8	8	8	8

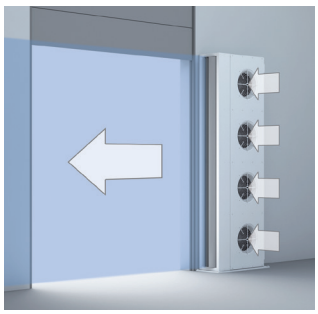
		Induvent single unit				Induvent multiple unit					
	Length of the unit (cm)	150	200	250	300	350	400	450	500	550	600
	consisting of	-	-	-	-	150 / 200	200 / 200	200 / 250	250 / 250	250 / 300	300 / 300
Technical data of fans (230 V)											
AC technology											
Voltage / Frequency	[V / Hz]	230 / 50				230 / 50					
Output	[kW]	0.84	1.12	1.40	1.68	1.96	2.24	2.52	2.80	3.08	3.36
Power consumption	[A]	3.69	4.92	6.15	7.38	8.61	9.84	11.08	12.32	13.54	14.76
EC technology											
Voltage / Frequency	[V / Hz]	230 / 50				230 / 50					
Output	[kW]	1.56	2.08	2.60	3.12	3.64	4.16	4.68	5.20	5.72	6.24
Power consumption	[A]	9.45	12.60	15.75	18.90	22.05	25.20	28.35	31.50	34.65	37.80

Overview of housing types



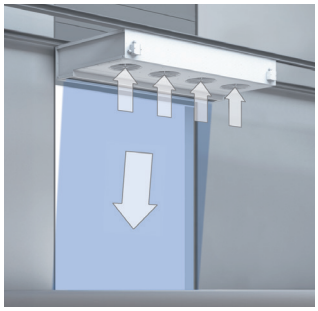
Housing type S

Horizontal wall or ceiling installation, air intake at the front.



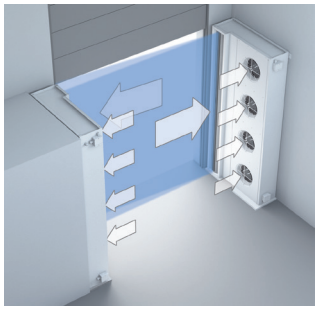
Housing type S-V

Vertical unit on one side, air intake at the front.



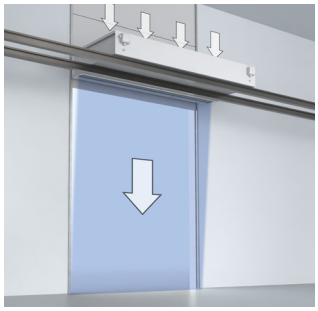
Housing type U

Ceiling installation, air intake below.



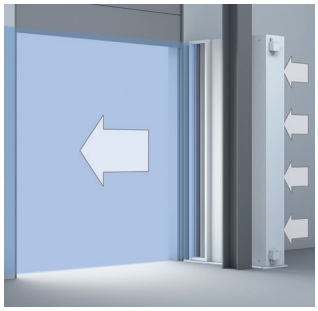
Housing type U-V

Left and right vertical units, air intake and discharge are directly in the door area.



Housing type Z

Horizontal wall or ceiling installation, top air intake



Housing type Z-V

Vertical unit on one side, air intake at the rear.

Individual colours

Teddington air curtain systems are powder-coated to a high quality. Our industrial units are manufactured in RAL 7011 Iron Grey 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 9016
Traffic White

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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