



INDUSTRIES

INDUVENT

EVOLVENT

With the patented Teddington
EVOLVENT® Nozzle Technology.



TEDDINGTON

Compact, flexible, high performance.





Highly frequented workshops with doors which are metres high create tremendous cold draughts with high energy losses. Energy efficient solutions are demanded here for draughtless climate conditions.

The INDUVENT air curtain systems from Teddington, to be mounted either vertically or horizontally, are designed for universal usage in all industry sectors. The patented EVOLVENT® nozzle technology in the blow-out section ensures a high throwing range with minimal energy demand.

With many different types, the adaptable INDUVENT devices conform to all performance and space requirements.

Teddington air curtain technology in the refuse industry

Especially for usage in the refuse industry, the Teddington INDUVENT air curtain systems have maintained their popularity.

Since 01.06.2005, depositing of untreated, biodegradable and organic-containing waste has been forbidden in Germany due to severe pollution and endangering of the environment. The processing of this waste today takes place in mechanical incineration plants or mechanical biological plants, which are very rigorously subject to regulations regarding the authorised emission limits (17th and 30th Federal Emission Control Regulation, BImSchV). In complying with the authorised toxic emissions, the wide delivery doors have a special meaning.

The Federal Emission Control Regulation (BImSchV) also authorises these doors, next to special lock systems, to be able to make use of specific air curtain systems. Teddington air curtain systems with EVOLVENT® pressure-chamber-nozzle-system offer here a very efficient and compact solution, which has already been repeatedly and successfully used in practice.



Your advantages

- **No obstruction to transportation**
- **No damage to the doors from the vehicles**
- **No extra space required**
- **Lower investment**
- **Simple set-up**
- **Small operation and subsequent costs**
- **Low maintenance**



An INDUVENT device Type S. Horizontal installation above the door, the air intake section at the front.



The vertical Type U with a sideways air intake section.



The vertical S dual system with its air intake section at the front effectively shields this very high door area.

INDUVENT

Teddington INDUVENT is an energy saving air curtain with the patented EVOLVENT®, pressure-chamber-nozzle-system, with a big angle of 90° to adjust the air blow-out direction, with almost no performance loss (Patent Number: 4415079).

Application

The Teddington INDUVENT energy efficient air curtain is best suited for usage in the industrial sector, where no heating is either necessary or no medium of heat is available.

The systems are suitable for both a horizontal and vertical installation.

Performance

- A robust housing from coated steel sheet, powder coated in RAL 9002 standard colour (greyed white) or optional RAL colour according to individual choice.
- Air intake via inlet nozzles, covered with suction grids, as the protective barrier, with an optimal air intake cross-section, powder coated in device colour.
- Compact housing delivered for a space saving installation.
- High performance radial ventilators curved backwards, with suction on one side, with voltage controllable motors for alternating current, 230V, 1Ph, 50Hz, protection class IP 44, maintenance-free ball bearing.
- Device version without heater for the ambient operation mode.

Your advantages

- Patented pressure-chamber-nozzle-system
- Low noise level
- Low energy consumption of the device
- High insertion depth of the air jet
- Compact construction
- Extremely user-friendly to install
- Applicable horizontally and vertically
- Considerable energy saving
- Quick amortisation



The choice is down to you.



Type Z

Air intake section at the back. Single device vertically installed next to the door.



Type S

Air intake section at the front. Single device vertically installed next to the door.

The INDUVENT air curtain series distinguishes itself through great adaptability in its structure and its variable use.

According to the situation, the installation can be either horizontal or vertical.

A preferably space saving and effect-optimized positioning occurs through the type variations S, U and Z.

Whatever your individual situation looks like – INDUVENT will always adapt to suit your needs.



Type S

Air intake section at the front. Single device horizontally installed to the wall.

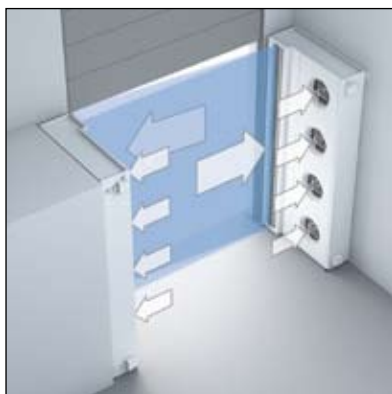


Type S

Air intake section at the front. Dual system vertically installed next to the door.

The air curtain fully encircles the outline of the driving / stationary vehicle. The screening effect is therefore not disrupted (picture in the middle to the right).

Extremely high doors can be shielded through dual systems. For this purpose, there is the example in the picture of a horizontally installed INDUVENT U dual system (picture underneath to the right).



Type U

Sideways air intake section. Dual system vertically installed next to the door.



Type U

Air intake section underneath. Dual system horizontally installed overhead.

Ordering key

INDUVENT	
S = Air intake section at the front	
U = Air intake section underneath / sideways	
Z = Air intake section at the back	
H = Horizontal installation	
V = Vertical installation	
150, 200, 250, 300 = Width	
RAL 9002 (standard colour)*	
S - V-150 9002 = Example	

* Other RAL colours are possible on request.

Technical Data

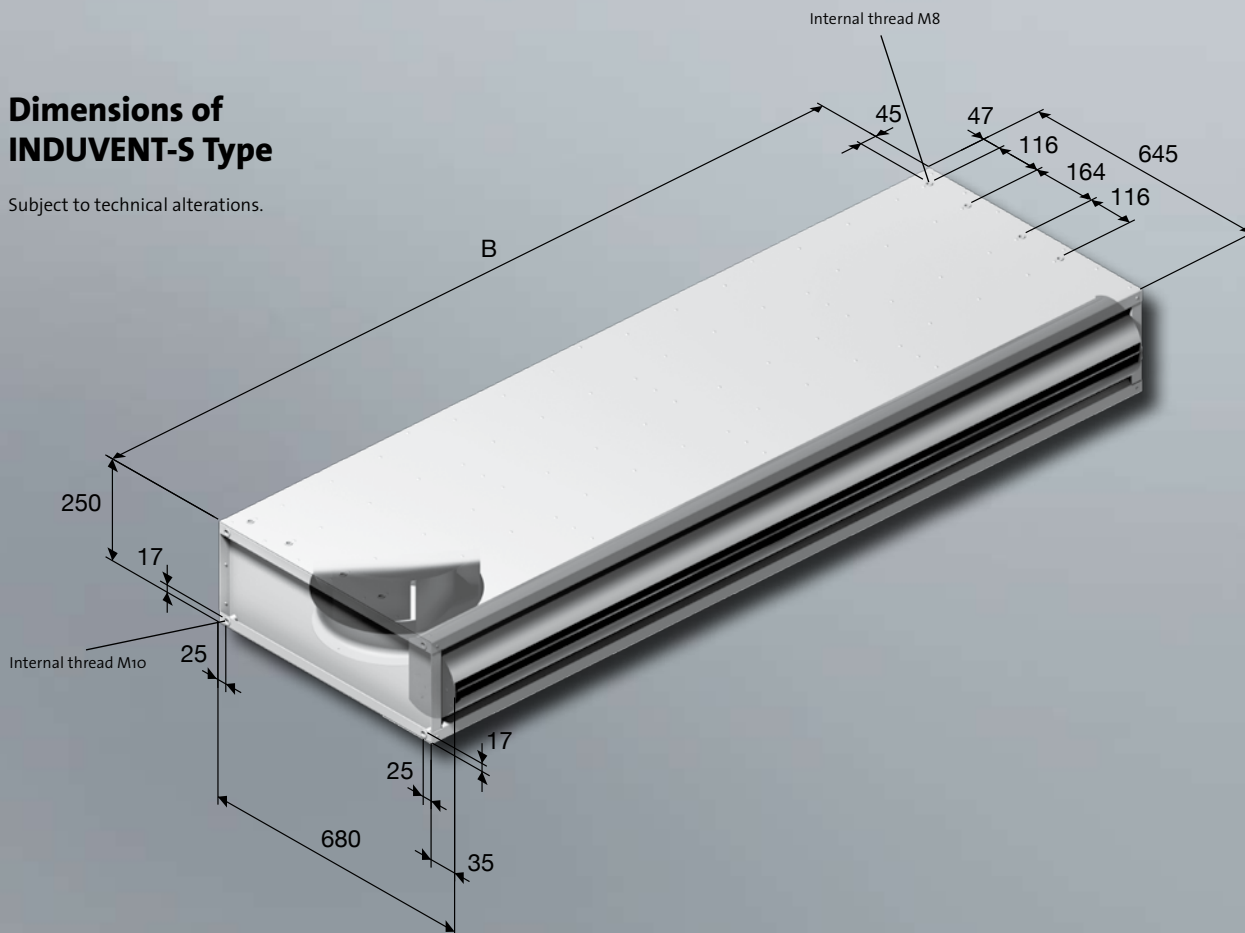
INDUVENT	2 Devices					
Width/-height „B“ [cm]	150	200	250	300	350	400
Blow-out width max. [m]	4.0	4.0	4.0	4.0	4.0	4.0
Weight [kg]	75	95	105	120	170	190
Air volume						
Nominal volume flow [m³/h]	6.900	9.200	11.600	13.800	16.100	18.400
Work volume flow [m³/h]	4.400	5.900	7.350	8.850	10.300	11.800
Blow-out speed [m/s]	16.5	16.5	16.5	16.5	16.5	16.5
Ventilators						
[V/Hz]	230/50	230/50	230/50	230/50	230/50	230/50
[A]	3.87	5.16	6.45	7.74	9.03	10.32
[kW]	0.87	1.16	1.45	1.74	2.03	2.32
Noise level						
[dB(A)]	60	61	62	63	64	65

The installation can be assembled from several single devices according to the dimensions of your door to reach the necessary total length or height.

Subject to technical alterations.

Dimensions of INDUVENT-S Type

Subject to technical alterations.





Dimensions of INDUVENT-U Type

Subject to technical alterations.

A 3D perspective view of the INDUVENT-U Type unit. The unit is a rectangular box with a white top surface and a grey base. The top surface has a grid of small circular holes. The base has a large, semi-circular cutout on the left side. Dimensions are indicated by arrows and numbers: 45, 77, 116, 164, 116, 875, 15, 250, 17, 24,5, 300, 17, 24,5, 226, and B. Two labels point to internal threads: 'Internal thread M8' and 'Internal thread M10'.

Internal thread M8

Internal thread M10

45 77 116 164 116 875 15

B

250 17 24,5 300 17 24,5 226

Dimensions of INDUVENT-Z Type

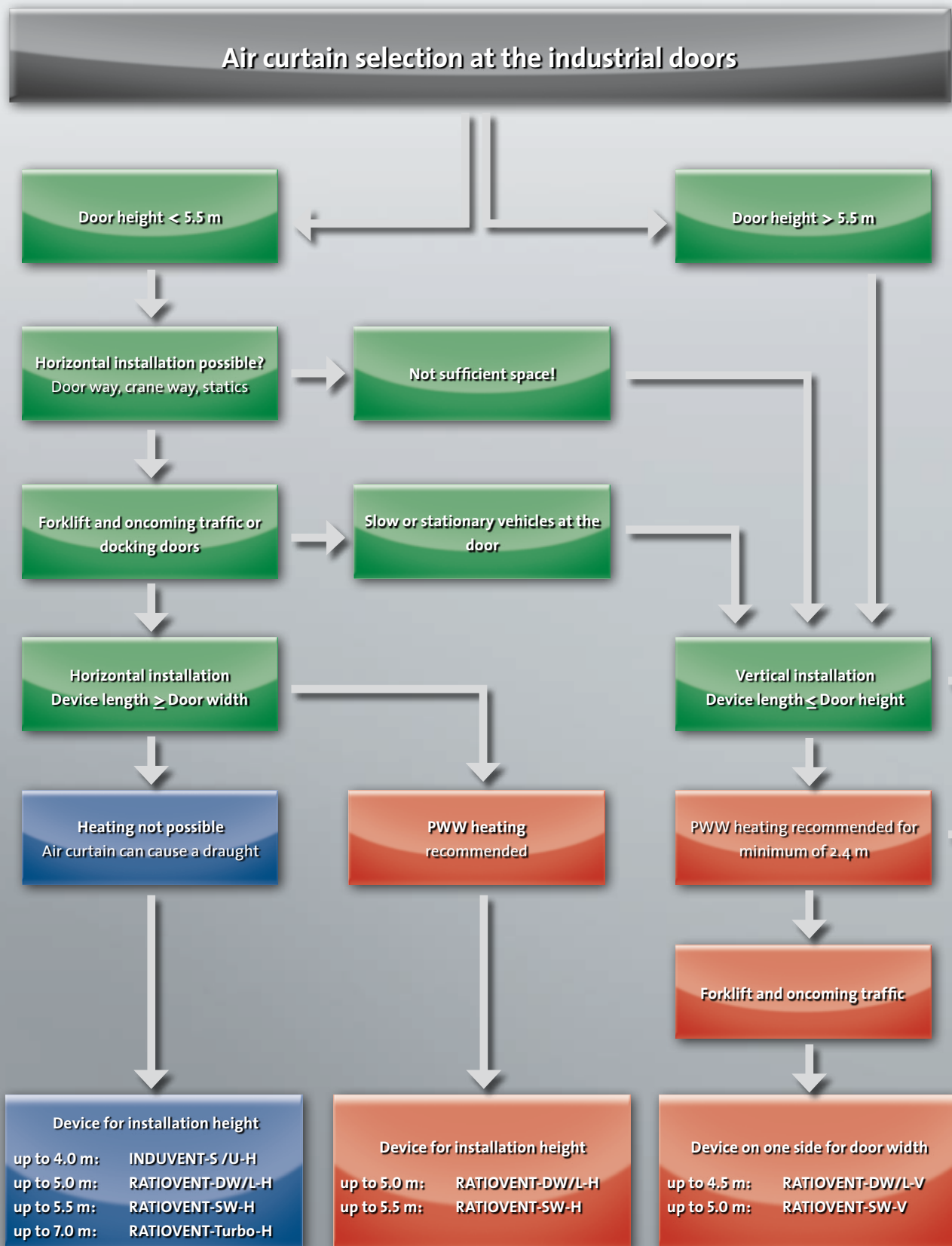
Dimensions of INDUVENT-Z Type

Subject to technical alterations.

Technical drawing of the INDUVENT-Z Type unit showing dimensions and internal features. The unit is a rectangular box with three circular fans on the top surface. Dimensions are provided in millimeters (mm). Key dimensions include:

- Overall length: 875 mm
- Overall width: 300 mm
- Overall height: 250 mm
- Internal width (excluding fans): 116 mm
- Internal length (excluding fans): 226 mm
- Internal height (excluding fans): 17 mm
- Internal thread M8 (top)
- Internal thread M10 (bottom)
- Internal thread M10 (side)

It totally depends on the situation.



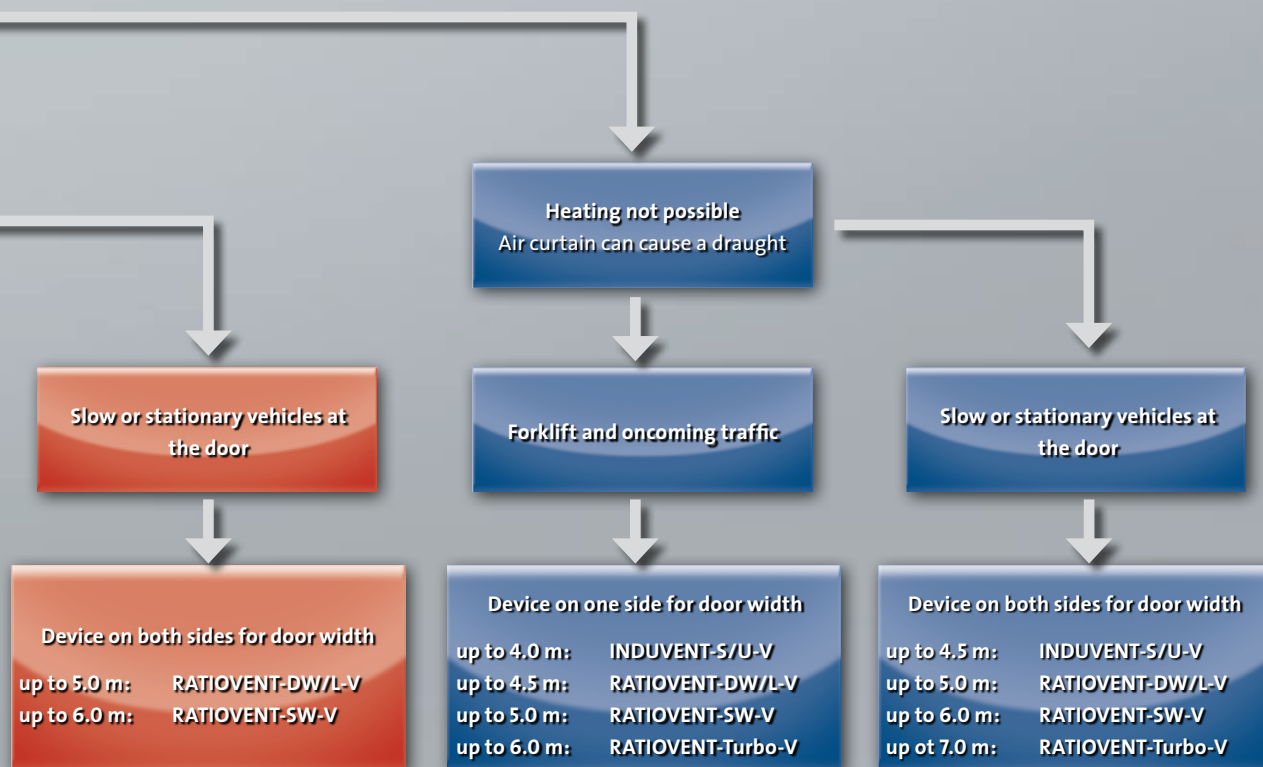







Main selection guidelines for air curtain systems at the industrial doors

- Selection applies to balanced pressure conditions inside the building
- No facing building vents
- Installation preferably horizontal above the door
- Heating preferably included
- Air flow always kept away from working places

The above mentioned schema does not cover all factors, which are determined by the selection of the appropriate air curtain system. The optimal choice depends on a variety of individual factors.

We like to give you our long-standing experience whilst advising you in person, in order to ascertain the best air curtain solution according to your requirements.



Accessories	
	Door contact Type TK Protection grade IP 65, jumper switch with H switches and full contact up to time of switching, shock-proof terminals according to VDE 0106 part 100 (VGB 4), cable gland 2 x PG 13.5, at bottom and at side, switching voltage 230 V AC, 24 V DC, switching current 6 A AC, 4 A DC.
	Repair switch REP-L 3 pole repair switch as wall mounting type, as unpacked by-pack for installation at site in the connection cable.
	Base plate (BP) for a vertical installation.
	Connection brackets for the mechanical connection of several devices with one another.
	Wall support brackets for attaching the device to the wall.



Durable intelligence for industrial applications.

The TESM5 controller offers all possibilities, which you need for your industrial air curtain system. The durable processing provides a high level of reliability for the daily operation.

- ▶ VDE 06660 Part 500 DIN EN 60439-1
- ▶ Insulation class E
- ▶ IP 23 (optional IP 54)
- ▶ Service and fault message
- ▶ Integrated repair switch
- ▶ Branch circuit protection device
- ▶ 5-stage
- ▶ Manual / automatic change-over switch, activation through external contact
- ▶ Potential-free service and fault message (optional)

Quality is our highest demand.



Independently of what device you may decide for – at Teddington's you can be sure to have chosen a high performance product having a name in the market and featuring the latest state of the art technology.

With our experience over many years we can guarantee, that each device is composed of high grade, well proven components. And we are continuously developing new techniques, which are minimizing your operating costs and optimize the efficiency of the devices.

Teddington is a long lasting partner of the specialized craft business, of trade and industry.

A staff of experienced specialists care almost around the clock for making sure to continuously satisfying the world wide demands for precise and high quality air curtain products.

Teddington runs a network of competent special firms, which are always available for you.

We will assist you in planning and supporting your choice for that device, which suits your needs most and will also support you after the time of putting the equipment into operation by a comprehensive service.

... typically Teddington.



Device technology, intelligent controller systems and service – all matching perfectly.

The better the consultation, the better the result will be.

Modern production facilities with CNC technology ensure a very high quality standard.

Innovation is our main commitment. For example, the patented nozzle technology.

No device will leave the production, which has not been tested entirely on all functions.

www.teddington.de

 **Innovative Technology**

 **Highest Economy**

 **Trendsetting Design**

 **Top Quality**

 **Perfect Service**

... that's Teddington.



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