Air Conditioning

Heating

Cooling

Ventilation

HVAC air curtains

Type InduAir

HVAC®
Air curtains

The energy saving air curtain for Industrial Applications

InduAir

The solid, self-supporting housing of the energy saving air curtain InduAir, which has been developed for the industrial application, is manufactured from powder coated galvanized sheet steel or aluminium and can be mounted beside or above the plant gate.
Standard finishing RAL 9002 (grey white).
The InduAir blow out Jet-Flo is made of anodized aluminium finishing in device colour.
A stainless steel design is also available on request.

All our air curtains are TÜV SÜD certified.

Backside bent high performance radial fans suck up the air via a powder coated galvanized sheet steel intake louver with optimum cross-section and an inflow jet form one side.

The blow out is accomplished with the HVAC aerodynamic Jet-Flo high-pressure chamber system with a nearly non-dissipative adjustment range of the blow angle (40°) and allows highest shielding performance with up to 40% less energy expenditure than traditional industrial air curtain systems.

The single-surged anti-vibration radial fans that are supplied with alternating current (230V, 1Ph, 50Hz, IP44) are silent in the operation and provide the power-specific airflows.
Airflow regulation via five-stage touch button control, safety class IP 23.

Advantages of the InduAir:

- Aerodynamic Jet-Flo high-pressure chamber system
- Compact design
- Optimum working shield
- Lower noise level
- Lower energy consumption
- Can be horizontally and vertically used
- Easy to mounted
- Low investment
- Rapid amortization
- Significant energy saving

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HVAC aerodynamic Jet-Flo air curtain technology

HVAC developed a new air curtain generation, using the “Jet-Flo tubes”, which have inside aerodynamically shaped and adjustable wings: leaving the tube, the air becomes an extra concentrated and condensed airflow like air below an airplane - wing, resulting in following unique characteristics:

- 40% less energy consumption compared to any other air curtain
- The only air curtain worldwide fully shielding an open entrance gap
- The only air curtain worldwide for heights up to 6 meter or any width
- Double adjustable; air velocity and blow out direction
- Much less air volume needed, resulting in a very silent operation
- No insects can pass through due to the concentrated air stream
- Architecture variety possible thanks to the compact Jet-Flo tube
- The tube is accurately to direct to building over-or under pressure
- The air stream can be adjusted towards winter- or summer mode
- Investment is earned back in < 2 years by the very high efficiency
- Noise level is upon the very lowest in the market (≤ 46 – 71 dB(A)

These unique characteristics make implementation of Jet-Flo air curtains possible in situations & business sectors, where this is hardly possible with air curtains, using conventional air-outlets:

- All industrial environments in general (shielding the internal air)
- Food industry (shielding entrances of cool- & deep freeze stores)
- Shielding neighbors against smell from garbage treatment plants
- Preventing smell to penetrate from one to next production process
- Creating strong “air locks” at entrances in heavy circumstances
- Shielding entrances at direct strong & cold sea winds (up to Bf 6!)
- Compensating losses & draft (up to 20%) of revolving doors
- Compensating losses & draft (up to 50%!) of sliders at vestibules
- Decrease CO2 emission

Our advice

Explain us your specific problem and we will investigate which Jet-Flo air curtain configuration is the ultimate solution!

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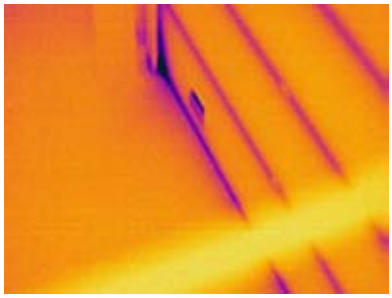
Infrared photographs
The infrared photographs show the temperature separation between the inner and outer environment.
The Jet-Flo high-pressure chamber discharge system will create an optimal separation.

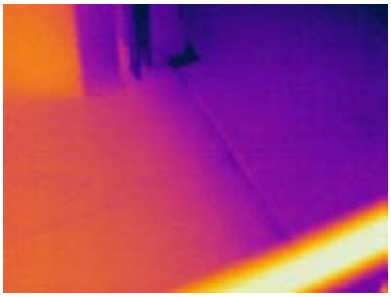
Normal View

Infrared views

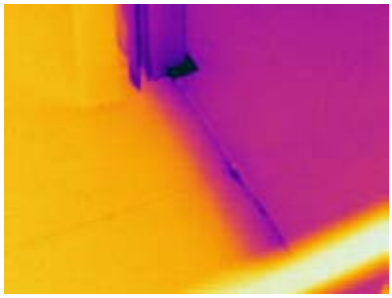
Closed door



Open door without air curtain



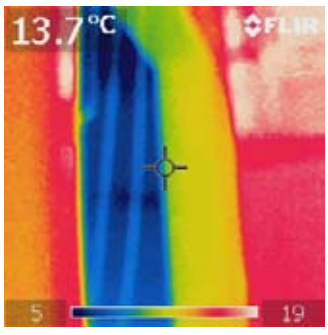
Open door with air curtain



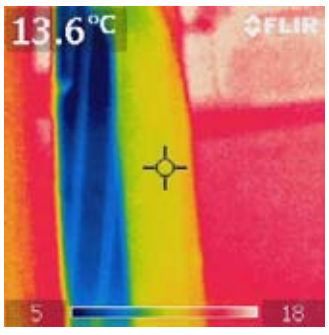
Normal View

Infrared views

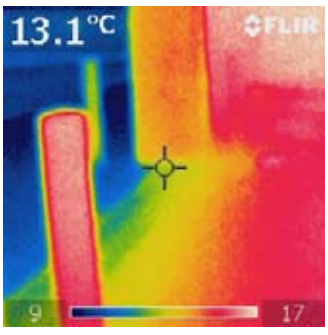
Upper part



Middle part



Lower part



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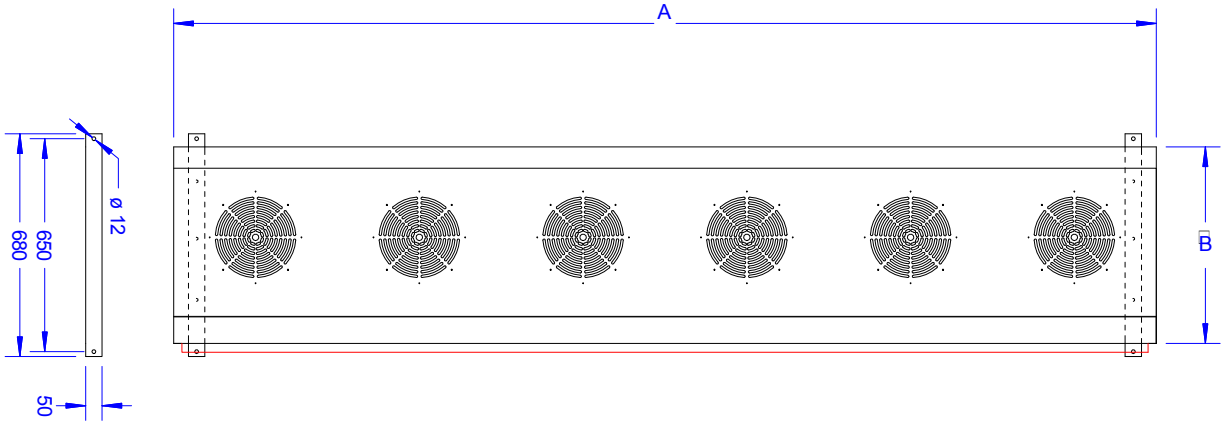
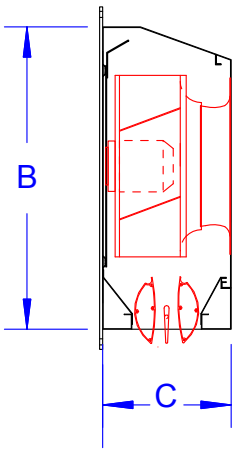
Specification

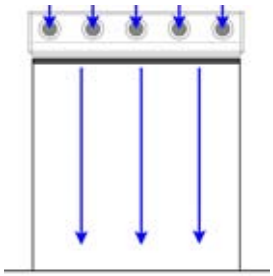
Model			InduAir									
Installation height	max.	m	5,5 - 6,0									
Active part		cm	100	150	200	250	300	350	400	450	500	550	600
Air flow		m³/h	5.320	7.980	10.640	13.300	15.960	18.620	21.280	23.940	26.600	29.260	31.920
Air velocity	highest stage	m/s	28,5	28,5	28,5	28,5	28,5	28,5	28,5	28,5	28,5	28,5	28,5
Noise level	lowest stage	dB(A)	≤ 46	≤ 46	≤ 47	≤ 47	≤ 49	≤ 50	≤ 52	≤ 53	≤ 54	≤ 55	≤ 57
	highest stage	dB(A)	60	60	61	61	63	64	66	67	68	69	71
Electrical Data		V	230	230	230	230	230	230	230	230	230	230	230
		kW	0,55	0,82	1,09	1,37	1,64	1,91	2,18	2,46	2,73	3,00	3,28
		A	2,5	3,8	5,0	6,3	7,5	8,8	10,0	11,3	12,5	13,8	15,0
Weight		kg	55	80	105	130	155	185	210	235	260	285	310
Dimensions	Width (A)	mm	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
	Height (B)	mm	600										
	Depth (C)	mm	255+6										



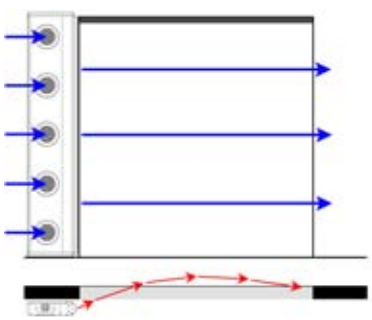


Typical Applications

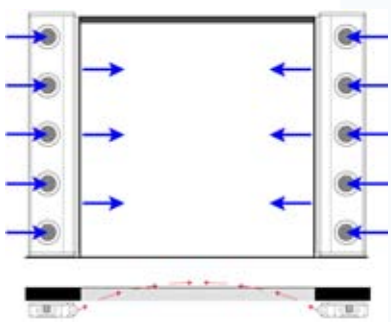
Vertically blowing mounted abo



Horizontally blowing from one side



Horizontally blowing from both sides



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