

# INDESSE VCP-03



air curtains



## INDESSE-VCP air curtains

are used for curtaining door openings in industrial production and storage factories, hangars, garages etc.; design and output - robust construction and powerful air v Industrial air curtains **INDESSE-VCP** are manufactured from quality components with an impact to achieve the best price/output ratio. The air curtain casing is made from galvanized sheet painted with white (RAL 9010) overcoat with protective foil; the back plate is galvanized only. Fans fulfill the re and maintenance-free operation under hard operation conditions. Overheating protection of motors is achieved by built-in return heat contact. Air curtains are produced in modules of 550, 1500 and 2000mm, that can be stacked up to the required height (metal interconnection plates are part of each module) Several types of modules are available - without heat exchanger, with electric or hot water heat exchangers. Modules equipped with water heat exchangers are also

### Basic technical parameters

		Warm water VCP-03-055-TO VCP-03-055-TO	Hot water VCP-03-055-HO VCP-03-055-HP	Electric VCP-03-055-EO	Air only VCP-03-055-SO
Height	[mm]	550	550	550	550
Width	[mm]	550	550	550	550
Depth	[mm]	540	540	540	540
Number of motors in the module	[pc]	1	1	1	1
Weight	[kg]	37,0	37,0	29,5	25,0
Voltage/frequency (Motor)	[V/Hz]	400/50	400/50	400/50	400/50
Voltage/frequency (Electric exchanger)	[V/Hz]	-	-	400/50	-
Motor input	[kW]	0,20	0,20	0,20	0,20
Motor current	[A]	0,48	0,48	0,48	0,48
Noise level (in distance of 3 m)	[dB(A)]	72	72	70,20	70,50
Air volume	[m <sup>3</sup> /h]	2650	2650	3250	3500
Outlet air velocity	[m/s]	8,10	8,10	10,00	10,80
Electric heat exchanger current	[A]	-	-	8,70	-
Max. heat output	[kW]	8,30*/13,06**	14,94***	6,00	-
Air temperature increase	[°C]	9,23*/14,54**	16,63	4,50	-
Max. water volume	[l/s]	0,10*/0,15**	0,06***	-	-
Water pressure loss	[kPa]	2,52*/5,37**	0,89***	-	-

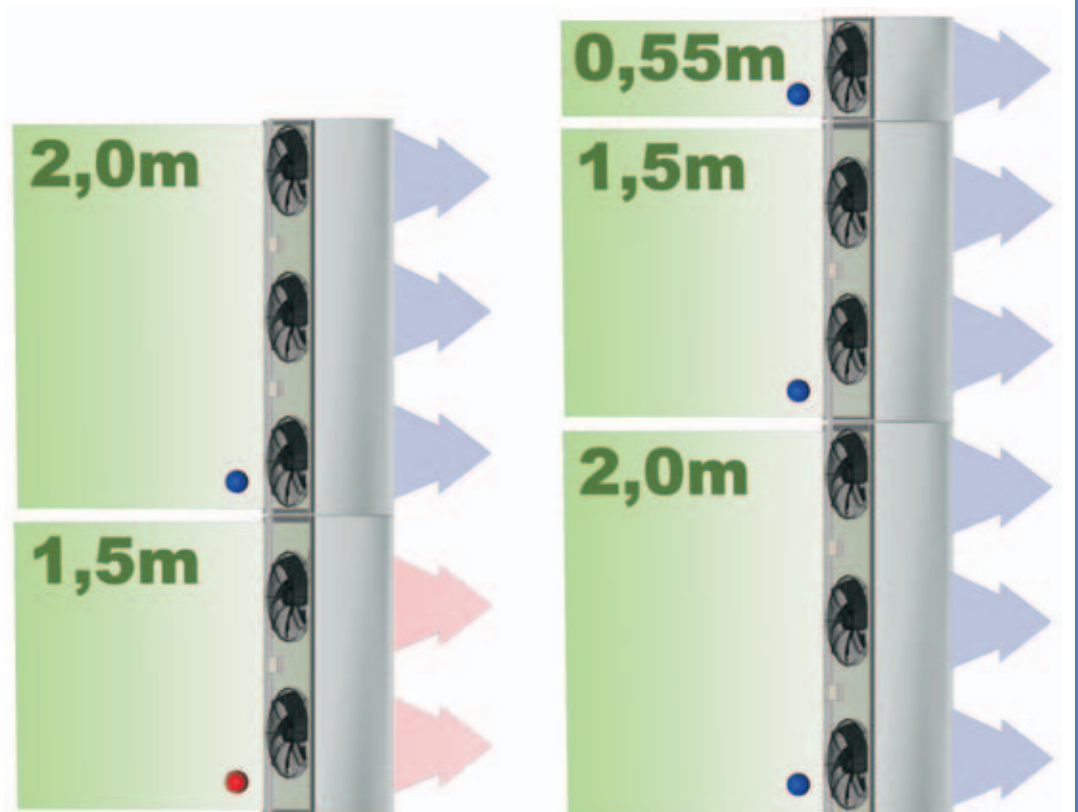
Temperature drop of heating water: \*70/50°C, \*\*90/70°C, \*\*\*130/70°C. Heat output and air temperature increase figures are related to inlet air temp. 15°C.

Air flow reach up to 7m.  
The total air curtain height is built up from individual modules.

3 different sizes 0,55m, 1,5m and 2,0m can be combined up to requested height or length.

- Air only
- Electric heater

For saving of energy costs, so called "active combination" can be used.  
Active combination is achieved by heating modules on the lower section and air only modules on the top section.



volumes - to meet industrial demands.

requirements of ISO 9001 Standard. Air curtains are equipped with motors of closed construction with self-lubricated ball bearings, that ensures their high durability

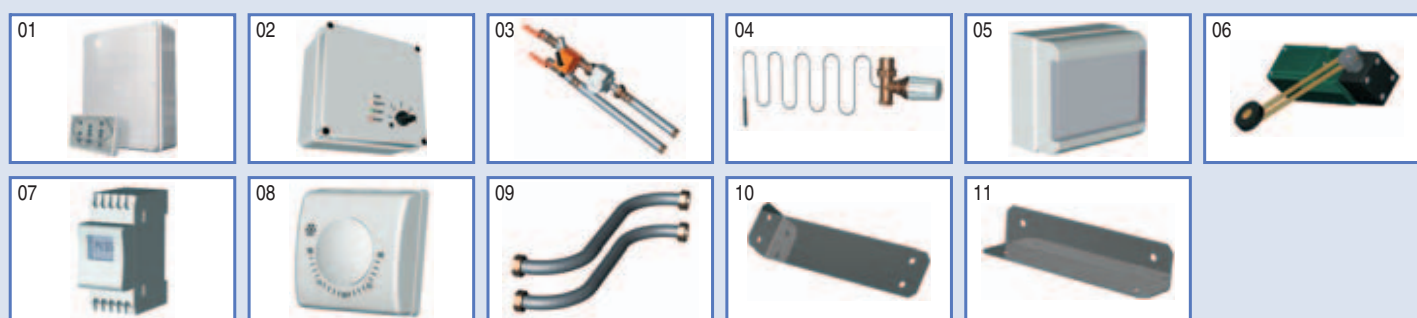
. This system ensures completely equal air velocity profile along the entire length of the outlet slot, which is hard to achieve by other methods.

available with anti freeze protection sensor - marked TP or HP.

Warm water VCP-03-150-TO VCP-03-150-TO	Electric VCP-03-150-EO	Air only VCP-03-150-SO	Warm water VCP-03-200-TO VCP-03-200-TO	Electric VCP-03-200-EO	Air only VCP-03-200-SO
1500	1500	1500	2000	2000	2000
550	550	550	550	550	550
540	540	540	540	540	540
2	2	2	3	3	3
99,0	79,0	67,0	133,0	106,0	90,0
400/50	400/50	400/50	400/50	400/50	400/50
-	400/50	-	-	400/50	-
0,40	0,40	0,40	0,60	0,60	0,60
0,96	0,96	0,96	1,44	1,44	1,44
70	68	68	69	67	67
5250	6350	6600	8100	10000	10200
8,10	9,80	10,20	8,00	9,90	10,10
-	17,30	-	-	26,00	-
15,60*/23,80**	12,00	-	23,56*/35,86**	18,00	-
8,77*/13,36**	4,90	-	8,58*/13,05**	4,90	-
0,18*/0,28**	-	-	0,28*/0,42**	-	-
2,65*/5,31**	-	-	3,05*/6,08**	-	-

## Accessories

Type	Code
01 Control unit RB - for the control of the water/electric exchangers and fan speed.	RB3-4A
02 Control panel is used for control of air curtains output and its necessary for all air curtains.	ROD
03 Mixing system used for control of heating capacity by mixing of flow and return hot water.	SMU
04 1" thermostatic valve for regulation of hot water.	TV1-1/1
05 Controller of mixing point is used for regulation of one or more mixing points.	OSMU
06 The door switch can be used in combination with RODB.	DS
07 The time switch can be used in combination with RODB.	SH
08 The room thermostat can be used in combination with RODB.	TER-P
09 Flexible hoses are used for easy installation of flow and return connections.	OH-01-1/1-XXX
10 Brackets used for horizontal installation.	VCP-DH-01
11 Floor fixing plates for vertical installation.	VCP-DK-01



## Vertical installation

The air-flow can cover the door opening from one side or both sides.  
The air curtain can be fixed in the upper and bottom part by the fixing plates.  
The maximal range is up to 14 meters.



## Horizontal installation

The air curtain can be installed by vertical fixing plates.  
The maximal height is up to 7 meters.



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### Manufacturer

2VV, spol. s r.o., Poděbradská 289, 530 09 Pardubice, Czech Republic

tel +420 466 741 891

fax +420 466 741 899

e-mail 2vv@2vv.cz

web www.2vv.cz



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