



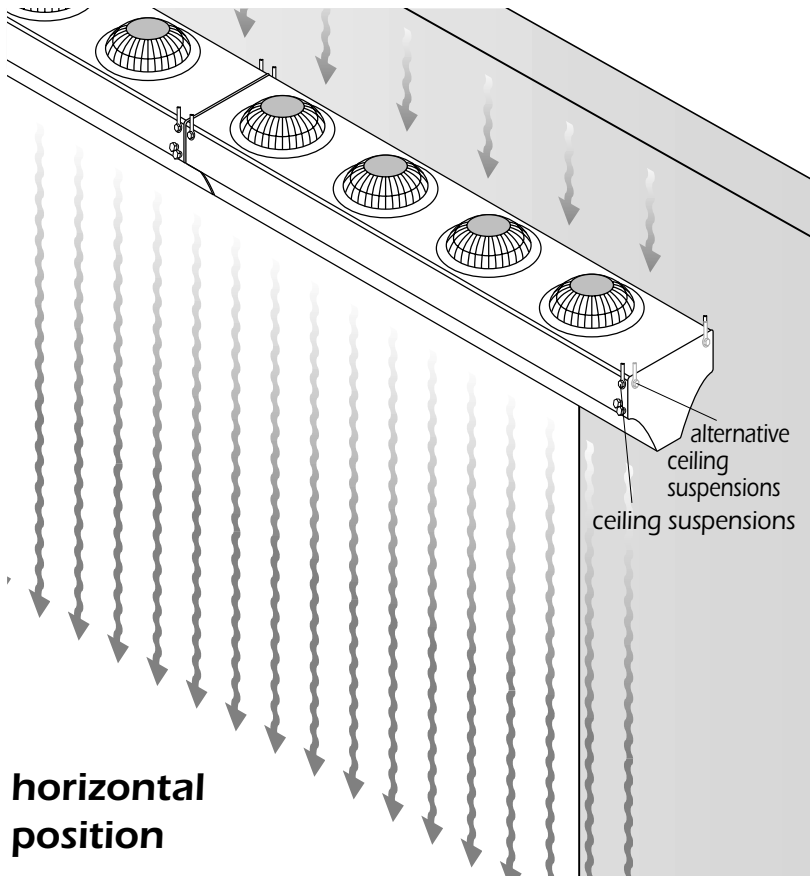
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Air Curtains for Industrial Purposes ...

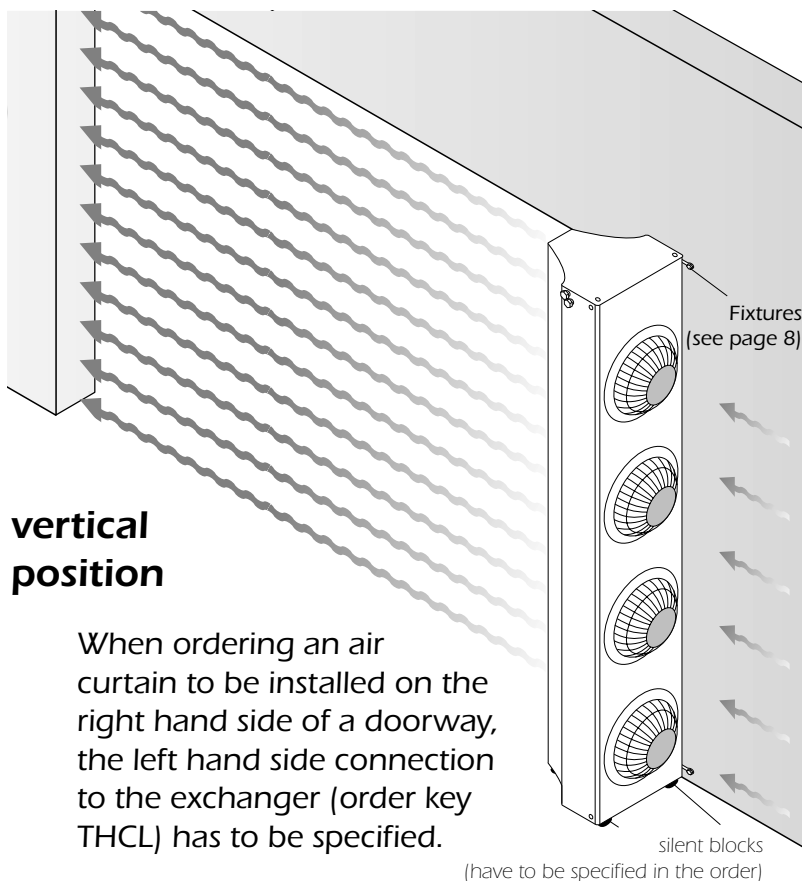
Axi

Air Curtains for Industrial Purposes ..Axi

The Axi range of air curtains are designed for use in industrial applications such as industrial buildings, warehouses and loading bays.



horizontal position



vertical position

When ordering an air curtain to be installed on the right hand side of a doorway, the left hand side connection to the exchanger (order key THCL) has to be specified.

Unit mounting:

vertical mounting
horizontal mounting

Unit design:

Axi air curtains are self-supporting robust units. They are available with a range of heating options, adjustable outlet grilles designed to obtain optimum performance, motors with standard controls and in-built thermo-contacts serving as motor-overload protection. They are easy to install and can be tailored to suit any application.

Heat exchangers

Standard Axi units are designed to be heated by hot water. Heat capacity can be controlled by a thermostatic valve and capillary tube. Electric or steam heat exchangers and an ambient model are also available.

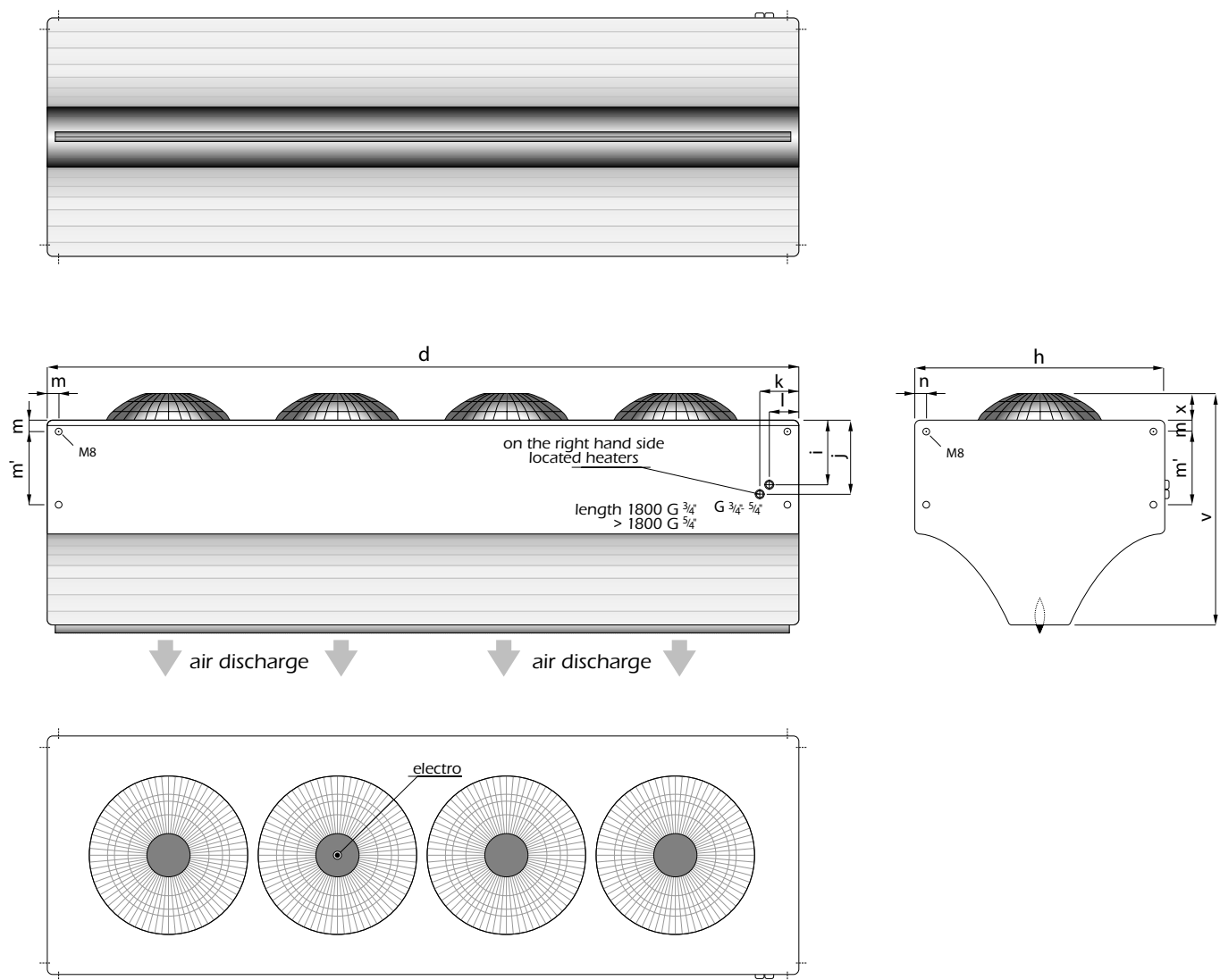
Regulation:

The air volume can be controlled by speed regulator 0-3 grades or with a switch Δ/Y , other control possibility via room thermostat, door contact, serial equipped controls for optional air curtain's chaining.

Suspensions:

- Wall suspensions
- Ceiling suspensions
- Vertical hanger suspensions

Sizes of air curtains



Specifications - Dimensions

Dimensions		TH(V)CP 181,182,183,184 187,188,189-AXI	TH(V)CP 211,212,213,214 217,218,219-AXI	TH(V)CP 261,262,263,264 267,268,269-AXI	TH(V)CP 311,312,313,314 317,318,319-AXI
d	[mm]	1800	2100	2600	3100
v	[mm]	465	465	465	465
h	[mm]	520	520	520	520
x	[mm]	140	140	140	140
m - Fixtures	[mm]	20	20	20	20
m' - Fixtures	[mm]	70	70	70	70
n - Fixtures	[mm]	40	40	40	40
i - Heating	[mm]	109	109	109	109
j - Heating	[mm]	137	137	137	137
k - Heating	[mm]	98	98	98	98
l - Heating	[mm]	48	48	48	48

Warm types specifications

Dimensions	TH(V)CP-184-3-AXI		TH(V)CP-214-3-AXI		TH(V)CP-264-3-AXI		TH(V)CP-314-3-AXI	
Warm types	1	2	1	2	1	2	1	2
Air output [m ³ /h]	9500	8500	11500	10500	14000	12500	17000	16000
Heating capacity [kW]	41,7	52,6	35,6	64,4	42,8	77,2	55,6	97,8
80/60°C loss of pressure [kPa]	6,7	9,5	5,6	15,4	9,1	7,5	16,9	12,9
volume flow rate [m ³ /h]	1,80	2,20	1,51	2,74	1,84	3,31	2,38	4,21
Heating capacity [kW]	22,33	29,80	19,50	36,80	23,90	43,30	31,50	55,60
60/40°C loss of pressure [kPa]	2,3	3,7	2,0	6,0	3,4	2,8	6,5	5,0
volume flow rate [m ³ /h]	0,97	1,26	0,83	1,55	1,00	1,84	1,37	2,38
Feeding / Power demand [V]/[kW]	230/1,71	230/1,71	230/2,28	230/2,28	230/2,85	230/2,85	230/3,42	230/3,42
Rated current [A]	8,7A	8,7A	11,6A	11,6A	14,5A	14,5A	17,4A	17,4A
Acoustic pressure dB[A]**	72	72	73	73	73	73	74	74

Dimensions	TH(V)CP-183-3-AXI		TH(V)CP-213-3-AXI		TH(V)CP-263-3-AXI		TH(V)CP-313-3-AXI	
Warm types	1	2	1	2	1	2	1	2
Air output [m ³ /h]	7000	6000	9000	8000	10500	9800	13500	12000
Heating capacity [kW]	35,7	43,4	31,6	55,5	39,2	67,5	49,6	83,5
80/60°C loss of pressure [kPa]	5,0	6,7	4,5	11,8	7,8	5,9	13,7	9,7
volume flow rate [m ³ /h]	1,55	1,84	1,37	2,28	1,65	2,88	2,12	3,60
Heating capacity [kW]	19,2	24,7	17,3	31,8	22,0	38,1	28,1	47,7
60/40°C loss of pressure [kPa]	1,8	2,6	1,6	4,6	2,9	2,2	5,3	3,8
volume flow rate [m ³ /h]	0,83	1,04	0,76	1,33	0,94	1,62	1,22	2,05
Feeding / Power demand [V]/[kW]	230/0,9	230/0,9	230/1,2	230/1,2	230/1,5	230/1,5	230/1,8	230/1,8
Rated current [A]	4,8A	4,8A	6,4A	6,4A	8,0A	8,0A	9,6A	9,6A
Acoustic pressure dB[A]**	70	70	72	72	72	72	73	73

Dimensions	TH(V)CP-182-3-AXI		TH(V)CP-212-3-AXI		TH(V)CP-262-3-AXI		TH(V)CP-312-3-AXI	
Warm types	1	2	1	2	1	2	1	2
Air output [m ³ /h]	5700	5500	8000	7000	9000	8500	12500	11000
Heating capacity [kW]	32,0	41,3	29,8	51,5	36,6	62,3	47,8	79,5
80/60°C loss of pressure [kPa]	4,1	6,2	4,0	10,3	6,8	5,1	12,8	8,9
volume flow rate [m ³ /h]	1,37	1,76	1,30	2,19	1,55	2,66	2,05	3,42
Heating capacity [kW]	17,3	23,6	16,4	29,6	20,4	35,3	27,1	45,5
60/40°C loss of pressure [kPa]	1,50	2,40	1,50	4,10	2,60	1,95	5,00	3,50
volume flow rate [m ³ /h]	0,76	1,08	0,72	1,26	0,86	1,51	1,15	1,94
Feeding / Power demand [V]/[kW]	230/0,6	230/0,6	230/0,9	230/0,9	230/1,2	230/1,2	230/1,5	230/1,5
Rated current [A]	3,2A	3,2A	4,8A	4,8A	6,4A	6,4A	8,0A	8,0A
Acoustic pressure dB[A]**	67	68	67	69	69	69	71	70

Dimensions	TH(V)CP-181-3-AXI		TH(V)CP-211-3-AXI		TH(V)CP-261-3-AXI		TH(V)CP-311-3-AXI	
Warm types	1	2	1	2	1	2	1	2
Air output [m ³ /h]	5200	5000	6000	5500	8500	8000	10500	10000
Heating capacity [kW]	30,4	39,2	25,7	44,8	35,2	60,2	43,7	75,3
80/60°C loss of pressure [kPa]	3,70	5,60	3,10	8,00	6,50	4,77	10,90	8,10
volume flow rate [m ³ /h]	1,30	1,65	1,08	1,90	1,51	2,55	1,87	3,20
Heating capacity [kW]	16,5	22,3	14,2	25,9	19,8	34,1	24,9	43,2
60/40°C loss of pressure [kPa]	1,34	2,20	1,10	3,20	2,50	1,83	4,20	3,20
volume flow rate [m ³ /h]	0,68	0,94	0,57	1,08	0,83	1,44	1,05	1,84
Feeding / Power demand [V]/[kW]	230/0,6	230/0,6	230/0,6	230/0,6	230/0,9	230/0,9	230/1,2	230/1,2
Rated current [A]	3,2A	3,2A	3,2A	3,2A	4,8A	4,8A	6,4A	6,4A
Acoustic pressure dB[A]**	64	64	64	64	68	68	69	69

Specifications for cold types

Dimensions	SH(V)CP-184-3-AXI	SH(V)CP-214-3-AXI	SH(V)CP-264-3-AXI	SH(V)CP-314-3-AXI
Air output [m ³ /h]	12000	15500	17000	21000
Feeding/Power demand/Rated current [V]/[kW]/[A]	230V/1,14kW/8,1A	230V/1,52kW/10,8A	230V/1,90kW/13,5A	230V/2,28kW/16,2A
Acoustic pressure dB[A]**	72	73	73	74

Dimensions	SH(V)CP-183-3-AXI	SH(V)CP-213-3-AXI	SH(V)CP-263-3-AXI	SH(V)CP-313-3-AXI
Air output [m ³ /h]	9000	11500	13500	16000
Feeding/Power demand/Rated current [V]/[kW]/[A]	230V/0,6kW/3,9A	230V/0,8kW/5,2A	230V/1,0kW/6,5A	230V/1,2kW/7,8A
Acoustic pressure dB[A]**	69	71	72	73

Dimensions	SH(V)CP-182-3-AXI	SH(V)CP-212-3-AXI	SH(V)CP-262-3-AXI	SH(V)CP-312-3-AXI
Air output [m ³ /h]	7500	9500	12500	14000
Feeding/Power demand/Rated current [V]/[kW]/[A]	230V/0,4kW/2,6A	230V/0,6kW/3,9A	230V/0,8kW/5,2A	230V/1,0kW/6,5A
Acoustic pressure dB[A]**	63	65	69	70

Dimensions	SH(V)CP-181-3-AXI	SH(V)CP-211-3-AXI	SH(V)CP-261-3-AXI	SH(V)CP-311-3-AXI
Air output [m ³ /h]	7000	8000	11000	13000
Feeding/Power demand/Rated current [V]/[kW]/[A]	230V/0,4kW/2,6A	230V/0,4kW/2,6A	230V/0,6kW/3,9A	230V/0,8kW/5,5A
Acoustic pressure dB[A]**	63	64	68	69

** acoustic pressure at 5m distance from the unit

Warm types specifications

Dimensions	TH(V)CP-189-3-AXI		TH(V)CP-219-3-AXI		TH(V)CP-269-3-AXI		TH(V)CP-319-3-AXI	
Warm types	1	2	1	2	1	2	1	2
Air output [m³/h]	9500	8500	11500	10500	14000	12500	17000	16000
Heating capacity [kW]	41,7	52,6	35,6	64,4	42,8	77,2	55,6	97,8
80/60°C loss of pressure [kPa]	6,7	9,5	5,6	15,4	9,1	7,5	16,9	12,9
volume flow rate [m³/h]	1,80	2,20	1,51	2,74	1,84	3,31	2,38	4,21
Heating capacity [kW]	22,33	29,80	19,50	36,80	23,90	43,30	31,50	55,60
60/40°C loss of pressure [kPa]	2,3	3,7	2,0	6,0	3,4	2,8	6,5	5,0
volume flow rate [m³/h]	0,97	1,26	0,83	1,55	1,00	1,84	1,37	2,38
Feeding / Power demand [V]-[Δ/Y kW]	400-1,98/1,17	400-1,98/1,17	400-2,64/1,56	400-2,64/1,56	400-3,3/2,0	400-3,3/2,0	400-4,0/2,4	400-4,0/2,4
Rated current [Δ/Y A]	5,1/2,7A	5,1/2,7A	6,8/3,6A	6,8/3,6A	8,5/4,5A	8,5/4,5A	10,2/5,4A	10,2/5,4A
Acoustic pressure dB[A]**	72	72	73	73	73	73	74	74

Dimensions	TH(V)CP-188-3-AXI		TH(V)CP-218-3-AXI		TH(V)CP-268-3-AXI		TH(V)CP-318-3-AXI	
Warm types	1	2	1	2	1	2	1	2
Air output [m³/h]	7000	6000	9000	8000	10500	9800	13500	12000
Heating capacity [kW]	35,7	43,4	31,6	55,5	39,2	67,5	49,6	83,5
80/60°C loss of pressure [kPa]	5,0	6,7	4,5	11,8	7,8	5,9	13,7	9,7
volume flow rate [m³/h]	1,55	1,84	1,37	2,28	1,65	2,88	2,12	3,60
Heating capacity [kW]	19,2	24,7	17,3	31,8	22,0	38,1	28,1	47,7
60/40°C loss of pressure [kPa]	1,8	2,6	1,6	4,6	2,9	2,2	5,3	3,8
volume flow rate [m³/h]	0,83	1,04	0,76	1,33	0,94	1,62	1,22	2,05
Feeding / Power demand [V]-[Δ/Y kW]	400-0,99/0,72	400-0,99/0,72	400-1,32/0,96	400-1,32/0,96	400-1,65/1,2	400-1,65/1,2	400-1,98/1,44	400-1,98/1,44
Rated current [Δ/Y A]	2,4/1,4A	2,4/1,4A	3,2/1,8A	3,2/1,8A	4,0/2,3A	4,0/2,3A	4,8/2,7A	4,8/2,7A
Acoustic pressure dB[A]**	70	70	72	72	72	72	73	73

Dimensions	TH(V)CP-187-3-AXI		TH(V)CP-217-3-AXI		TH(V)CP-267-3-AXI		TH(V)CP-317-3-AXI	
Warm types	1	2	1	2	1	2	1	2
Air output [m³/h]	5700	5500	8000	7000	9000	8500	12500	11000
Heating capacity [kW]	32,0	41,3	29,8	51,5	36,6	62,3	47,8	79,5
80/60°C loss of pressure [kPa]	4,1	6,2	4,0	10,3	6,8	5,1	12,8	8,9
volume flow rate [m³/h]	1,37	1,76	1,30	2,19	1,55	2,66	2,05	3,42
Heating capacity [kW]	17,3	23,6	16,4	29,6	20,4	35,3	27,1	45,5
60/40°C loss of pressure [kPa]	1,50	2,40	1,50	4,10	2,60	1,95	5,00	3,50
volume flow rate [m³/h]	0,76	1,08	0,72	1,26	0,86	1,51	1,15	1,94
Feeding / Power demand [V]-[Δ/Y kW]	400-0,66/0,48	400-0,66/0,48	400-0,99/0,72	400-0,99/0,72	400-1,32/0,96	400-1,32/0,96	400-1,65/1,2	400-1,65/1,2
Rated current [Δ/Y A]	1,6/0,9A	1,6/0,9A	2,4/1,4A	2,4/1,4A	3,2/1,8A	3,2/1,8A	4,0/2,3A	4,0/2,3A
Acoustic pressure dB[A]**	67	68	67	69	69	69	71	70

Specifications for cold types

Dimensions	SH(V)CP-189-3-AXI		SH(V)CP-219-3-AXI		SH(V)CP-269-3-AXI		SH(V)CP-319-3-AXI	
Air output [m³/h]	12000		15500		17000		21000	
Feeding/Power demand/Rated current [V]-[Δ/Y kW]-[Δ/Y A]	400V-1,98/1,17kW-5,1/2,7A		400V-2,64/1,56kW-6,8/3,6A		400V-3,3/2,0kW-8,5/4,5A		400V-4,0/2,4kW-10,2/5,4A	
Acoustic pressure dB[A]**	72		73		73		74	

Dimensions	SH(V)CP-188-3-AXI		SH(V)CP-218-3-AXI		SH(V)CP-268-3-AXI		SH(V)CP-318-3-AXI	
Air output [m³/h]	9000		11500		13500		16000	
Feeding/Power demand/Rated current [V]-[Δ/Y kW]-[Δ/Y A]	400V-0,99/0,72kW-2,4/1,4A		400V-1,32/0,96kW-3,2/1,8A		400V-1,65/1,2kW-4,0/2,3A		400V-1,98/1,44kW-4,8/2,7A	
Acoustic pressure dB[A]**	69		71		72		73	

Dimensions	SH(V)CP-187-3-AXI		SH(V)CP-217-3-AXI		SH(V)CP-267-3-AXI		SH(V)CP-317-3-AXI	
Air output [m³/h]	7500		9500		12500		14000	
Feeding/Power demand/Rated current [V]-[Δ/Y kW]-[Δ/Y A]	400V-0,66/0,48kW-1,6/0,9A		400V-0,99/0,72kW-2,4/1,4A		400V-1,32/0,96kW-3,2/1,8A		400V-1,65/1,2kW-4,0/2,3A	
Acoustic pressure dB[A]**	63		65		69		70	

Electro control

Type of control	O5	O7	OT4	OT8	OT10	OT15	ROJ light 14-10	ROJ light 30-10	RT4	RT8	RT10	RT15	ROJ 14-20	ROJ 30-20	ROT4	ROT10	ROT15
Unit version	230V	230V	400V	400V	400V	400V	230V	230V	400V	400V	400V	400V	230V	230V	400V	400V	400V
For max. air curtains current	5 A	7 A	4 A	8 A	10 A	15 A	14 A	30 A	4 A	8 A	10 A	15 A	14 A	30 A	4 A	10 A	15 A
Door contact	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fan time delay	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Door contact blocation	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
Room thermostat*	—	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
External control	—	—	—	—	—	—	—	—	—	—	—	—	LS-AX-03		LS-AXT-02		
Anti-freeze thermostat*	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
Electrothermic valve+pump control*	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
Automatic running	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
Control chaining	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓

* the switchboard is prepared to be controlled by these elements as standard – these elements are not part of the delivery – need to be specified in the order

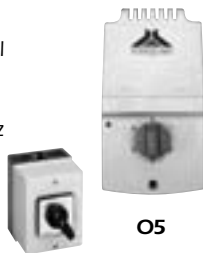
Controller O5, O7, OT4, OT8, OT10,

OT15

Speed control without external or door contact.

Supply voltage: 230V, 50/60Hz
Degree of protection: IP 22

OT4



O5

Version 230V O5, O7 - voltage regulator 0-1-2-3-4-5
Dimensions O5 (w*h*d) - 105*200*105
Dimensions O7 (w*h*d) - 105*200*105

Version 400V OT4, OT8, OT10, OT15 - switch Δ/Y 0-1-2
Dimensions OT4, 8 (w*h*d) - 150*280*110
Dimensions OT10, OT15 (w*h*d) - 150*280*110

Switchboard ROJ light 14-10, 30-10, RT4, RT8, RT10,

RT15

Switchboard for speed regulation with control possibility via door contact or thermostat.

Supply voltage: 230V, 50/60Hz
Degree of protection: IP 22



ROJ light 14(30)-10

Version 230V ROJ light 14-10, 30-10 - regulator 0-1-2-3
Dimensions 14-10 (w*h*d) - 180*320*135
Dimensions 30-10 (w*h*d) - 220*350*175

Version 400V RT4, RT8, RT10, RT15 - switch Δ/Y 0-1-2
Dimensions RT4, 8 (w*h*d) - 150*280*110
Dimensions RT10 (w*h*d) - 150*280*110
Dimensions RT15 (w*h*d) - 150*280*110

Switchboard ROJ 14-20, 30-20, ROT 4, 10, 15

Switchboard for speed regulation with control possibility via door contact and thermostat and other chaining possibilities

Supply voltage: 230V, 50/60Hz (400V)
Degree of protection: IP 22

LS-AX-03
LS-AXT-02



ROJ 14(30)-20

Version 230V

ROJ 14-20, 30-20 regulator 0-1-2-3
Dimensions 14-20 (w*h*d) - 400*500*200
Dimensions 30-20 (w*h*d) - 400*600*200

Version 400V

Degree of protection: IP 44

ROT 4, 10, 15 - switch Δ/Y 0-1-2
Dimensions ROT 4 (w*h*d) - 300*400*150
Dimensions ROT 10 (w*h*d) - 300*400*150
Dimensions ROT 15 (w*h*d) - 300*400*150

Dimensions of external control

Version 230V

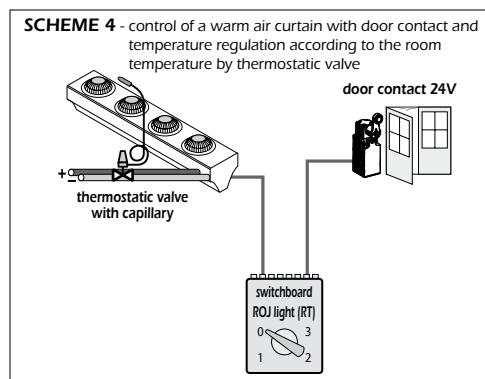
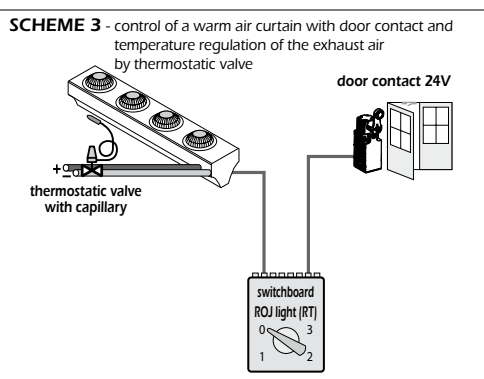
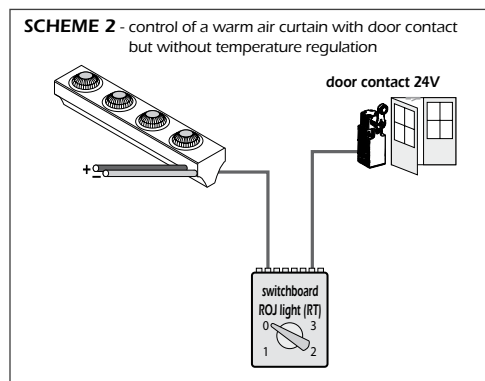
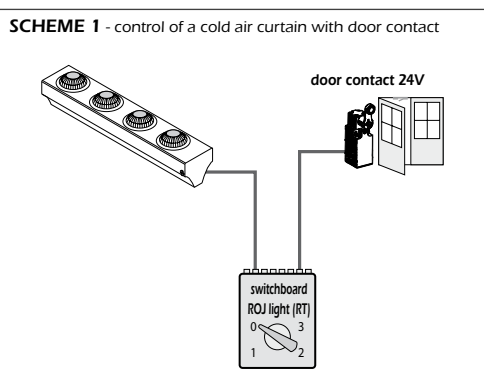
LS-AX-03 (w*h*d) - 180*94*81 mm

Version 400V

LS-AXT-02 (w*h*d) - 180*94*81 mm

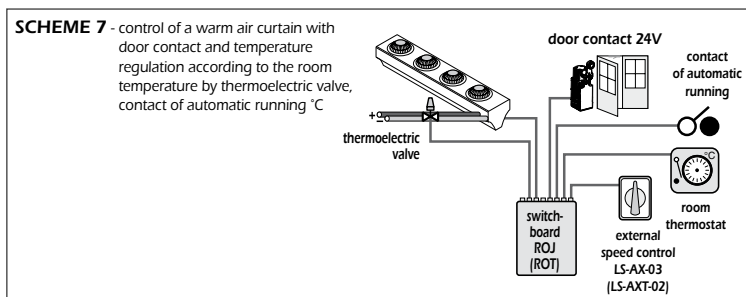
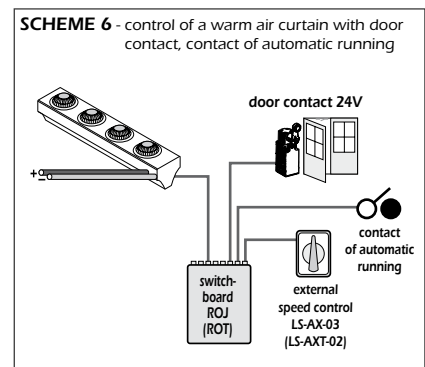
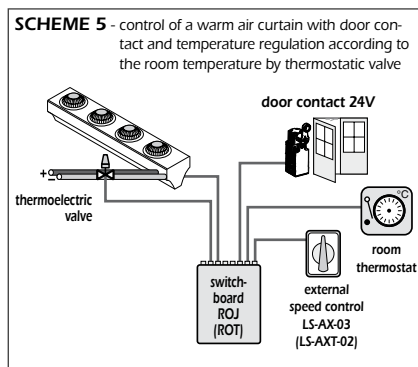
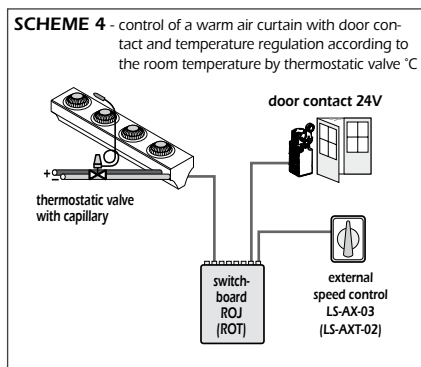
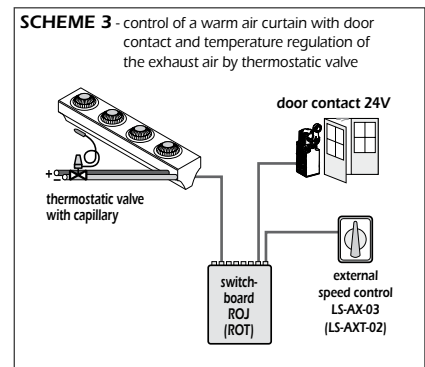
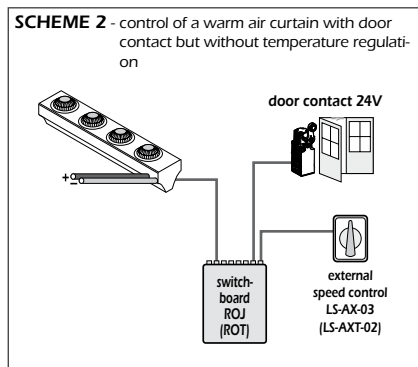
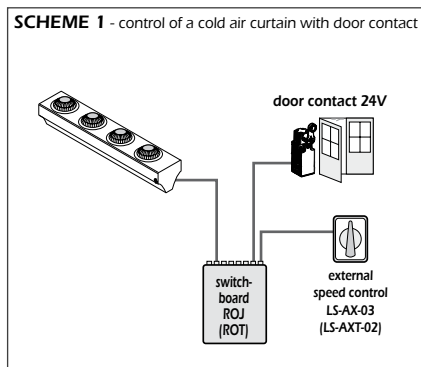
When specifying a switchboard do not exceed the maximum current of all the air curtains that will be connected to the switchboard!!!
!ATTENTION - individual wiring diagrams will be delivered with the unit - ATTENTION!

Connection possibilities for the ROJ light switchboards:*

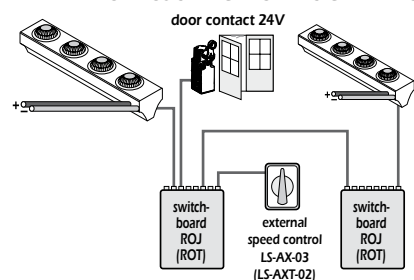


* for 230V, for 400V RT

Connection possibilities for the ROJ switchboards:*



EXAMPLE OF ROJ SWITCHBOARDS CHAINING



* for 230V, for 400V ROT

Accessories:

(TP1, TP2)

ROOM THERMOSTAT TP1: range: 5-35°C; IP 30; 230V/3A/AC-15

ROOM THERMOSTAT TP2

(with switch summer/winter): range: 5-35°C; IP 30; 230V/3A/AC-15



(DKM)

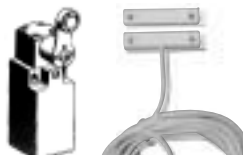
MECHANICAL DOOR

CONTACT: mechanical pinned contact; IP65; 230V/3A/AC-15

(DKMG)

MAGNETIC DOOR CONTACT:

magnetic contact; loading 24V/0, 25A/AC-15



CONTACT OF AUTOMATIC

RUNNING: serially it is inbuilt in the switchboard, but it is used only if there is requested, that the air curtain will be working with the closed door (by door contact) on the 1. fan speed. On this input in the switchboard can be used any element (room thermostat, press button, etc.).



THERMOSTATIC VALVE

WITH CAPILLARY: For water heated units only. To provide exhaust or room temperature regulation. Range 20-50°C; connection 1"; 5/4" - technical parameters of the valve are available upon request.

THERMOELECTRIC

VALVE: For water heated units only. To provide room temperature regulation operated by room thermostat with inbuilt output for pump regulation from the switchboard. Connection - technical parameters of the valve are available on request

(PTT)

ANTI-FROST THERMOSTAT PTT: Range: 5-25°C; IP 44

When an anti frost thermostat detects freezing conditions the air curtains fans are switched off and the electrotermic valve is opened.



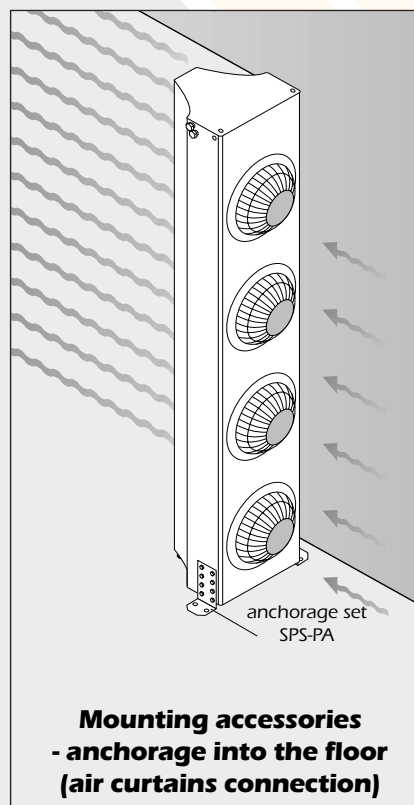
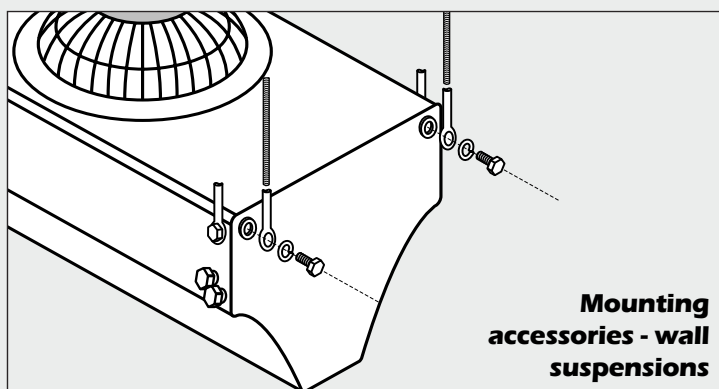
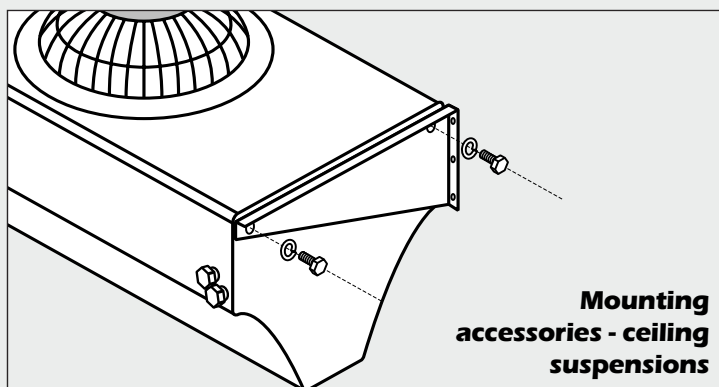
EXTERNAL DIGITAL CLOCK: Input for 230V/3A/AC-15, provides remote control of the unit

CONNECTION PIPES: Flexible connection pipes - 2 pcs for max.

temperature 110°C, standard length 300mm; 1" or 5/4"



Air Curtains for Industrial Purposes ...AXI

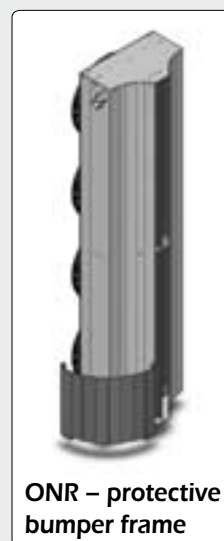


Here is the clue how to make the order:

T - HC - P - 213 - 3 - AXI

Typ	curtain location	heater design	curtain length, power stage
S - cold air type T - hot air type (hot water heater) (other heater types may also be supplied - steam, gas or electric heater)	VC - vertical air curtain HC - horizontal air curtain	P - heat exchanger right hand side location (viewed from the room) L - heat exchanger left hand side location (viewed from the room)	

189 - capacity grade 4; 400V • length 1800 mm
188 - capacity grade 3; 400V • length 1800 mm
187 - capacity grade 2; 400V • length 1800 mm
184 - capacity grade 4; 230V • length 1800 mm
183 - capacity grade 3; 230V • length 1800 mm
182 - capacity grade 2; 230V • length 1800 mm
181 - capacity grade 1; 230V • length 1800 mm
219 - capacity grade 4; 400V • length 2100 mm
218 - capacity grade 3; 400V • length 2100 mm
217 - capacity grade 2; 400V • length 2100 mm
214 - capacity grade 4; 230V • length 2100 mm
213 - capacity grade 3; 230V • length 2100 mm
212 - capacity grade 2; 230V • length 2100 mm
211 - capacity grade 1; 230V • length 2100 mm
269 - capacity grade 4; 400V • length 2600 mm
268 - capacity grade 3; 400V • length 2600 mm
267 - capacity grade 2; 400V • length 2600 mm
264 - capacity grade 4; 230V • length 2600 mm
263 - capacity grade 3; 230V • length 2600 mm
262 - capacity grade 2; 230V • length 2600 mm
261 - capacity grade 1; 230V • length 2600 mm
319 - capacity grade 4; 400V • length 3100 mm
318 - capacity grade 3; 400V • length 3100 mm
317 - capacity grade 2; 400V • length 3100 mm
314 - capacity grade 4; 230V • length 3100 mm
313 - capacity grade 3; 230V • length 3100 mm
312 - capacity grade 2; 230V • length 3100 mm
311 - capacity grade 1; 230V • length 3100 mm



Accessories:

- ◆ Ceiling suspensions
- ◆ Wall suspensions
- ◆ Thermostatic valve with capillary tube
- ◆ Door contact

Additional non-standard accessories:

- ◆ Anti-freeze thermostat
- ◆ Heat exchanger design - secondary gas unit
- ◆ Anti-corrosion design

Representation:



STAVOKLIMA v.o.s.

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