



Comfort Door  
Air Curtains

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# Li, Li EC



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## Content

### Content:

Selection of the air curtain ..... page 4

Air Curtains „Li“ with static and dynamic advertising panel ..... page 5

Technical data model „Li“ ..... page 7

Technical data – airflow - AC fans.....page 8-9

Technical data – airflow - EC fans ..... page 10-11

Recessed unit .....page 12-15

Air Curtain accessories ..... page 16

Suspensions for „Li“ ..... page 17-18

Air curtain regulation ..... page 19-21

Air curtain installation ..... page 22

Notes ..... page 23

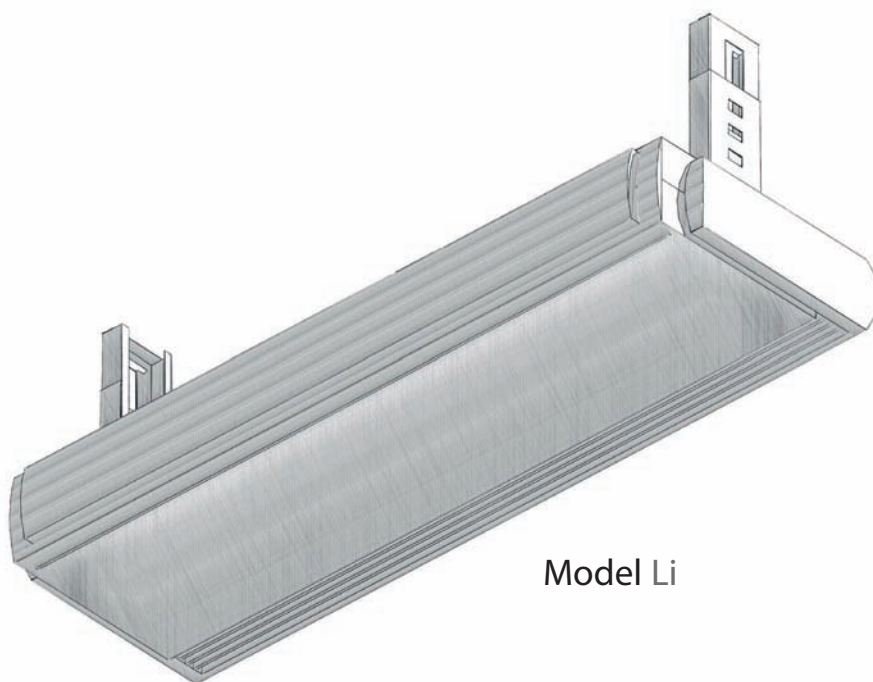
Key code ..... page 24

**Comfort air curtains Li are suitable especially for installation in:**

- banks and hotels
- office buildings
- light industrial buildings
- shopping malls and supermarkets

**To cover the doorspace there are the following possibilities:**

- use of circulating inside air - room temperature air only
- use of circulating inside air - heated by electrical or hot water heat exchanger
- fresh air and circulating air - heated by electrical or hot water heat exchanger (on demand)



Model Li

## Technical data Li

position: vertical / horizontal

heating: ambient (no heating) / heated (water/electric or eventually steam heated)

for the door heights: 2,2; 2,5; 2,8; 3,5m

for the door widths: 1,0; 1,5; 2,0; 2,5m further unit assembly for all kinds of larger door

colour: RAL 7047 (grey) in standard, all other RAL palette colours on demand + colour options of unit adapters - BN

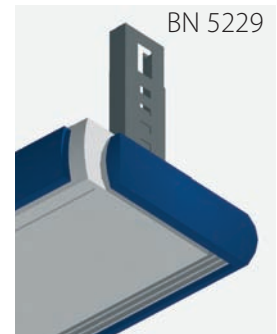
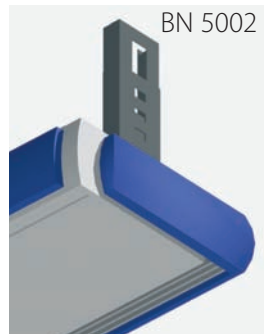
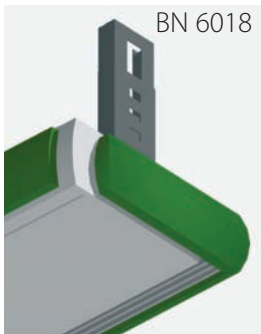
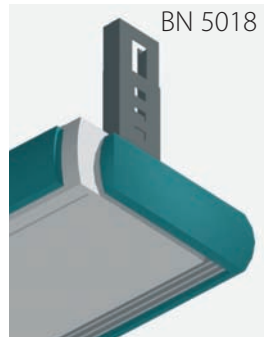
### Colour options of unit adapters:

Design adapters can be delivered in several colour options (BN) see pictures below.

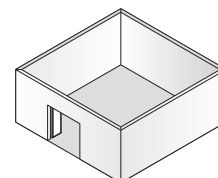
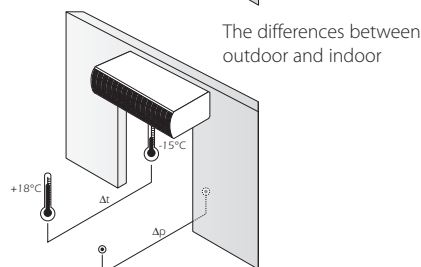
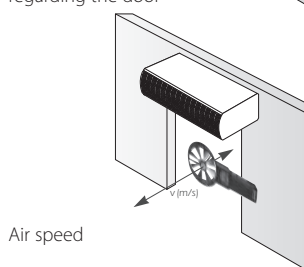
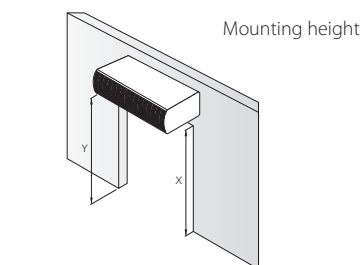
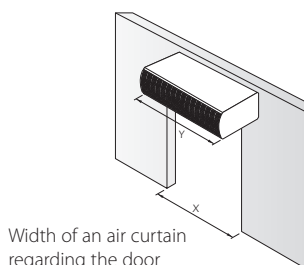
These air curtains are suitable for the installations with high demands on design. Water heated units are equipped with EU2 filter in standard, which helps to keep the air pollution free. Li curtains are preferably designed for basic environment.



Underview lighting in standard with all models of air curtains.

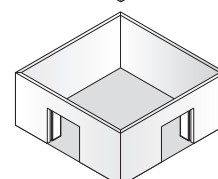


### Mounting specifications to be considered:



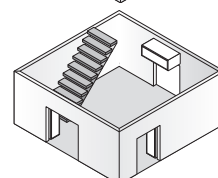
#### I. Situation

Easy situation:  
One entrance, eventually vestibule with a very light wind



#### II.

Medium situation:  
More entrances, no vestibule, heavier gust wind

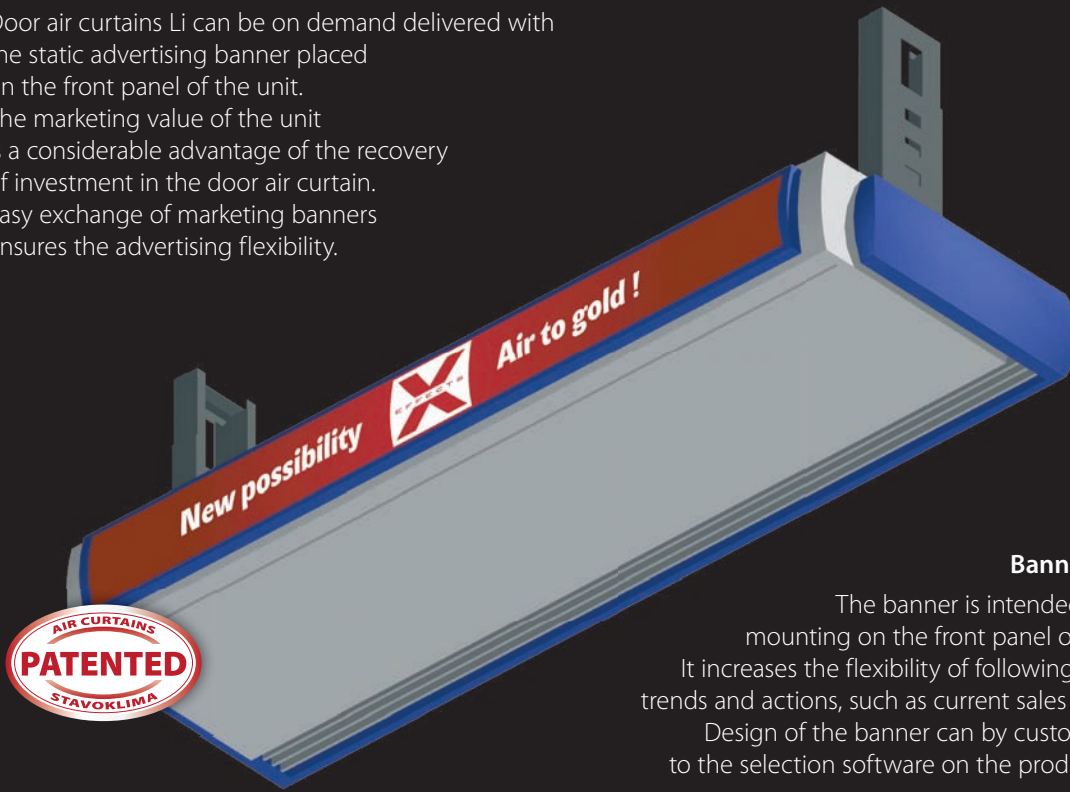


#### III.

Hard situation:  
More entrances, open storeys, no vestibule, heavy gust wind, underpressure

**Static advertising „SR"**

Door air curtains Li can be on demand delivered with the static advertising banner placed on the front panel of the unit. The marketing value of the unit is a considerable advantage of the recovery of investment in the door air curtain. Easy exchange of marketing banners ensures the advertising flexibility.

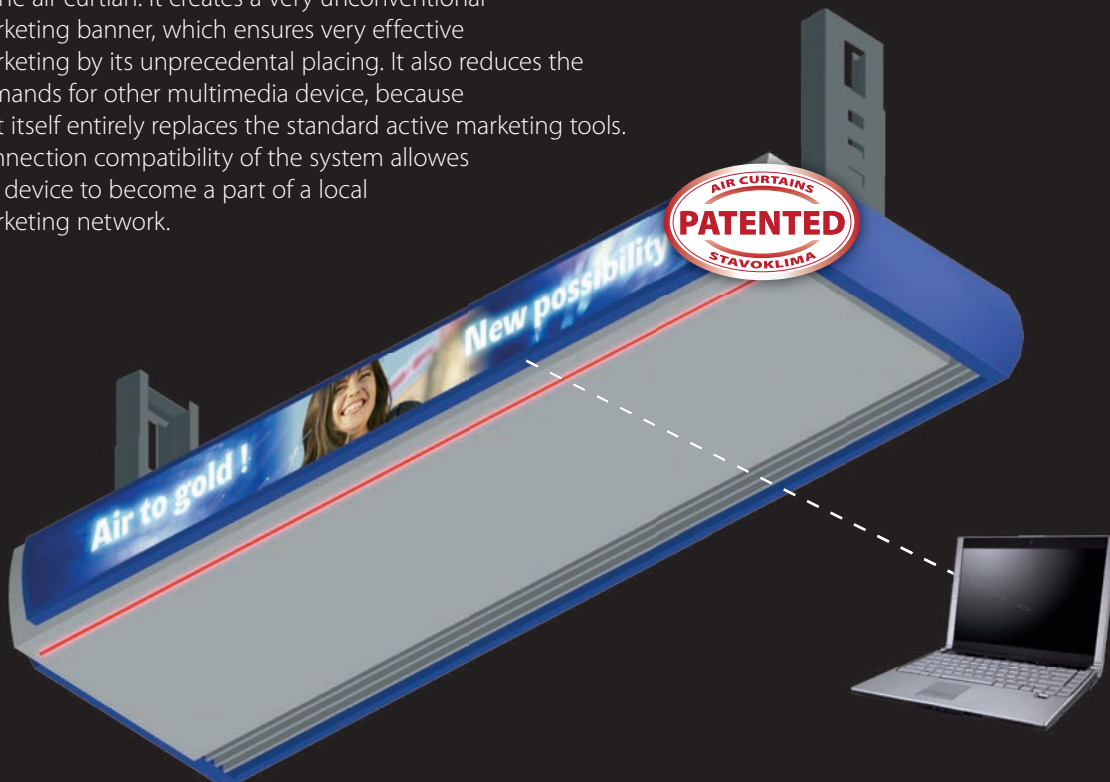


**Banner advertising**

The banner is intended for additional mounting on the front panel of the Li curtain. It increases the flexibility of following the marketing trends and actions, such as current sales or promotions. Design of the banner can be customer-made due to the selection software on the producer's web site.

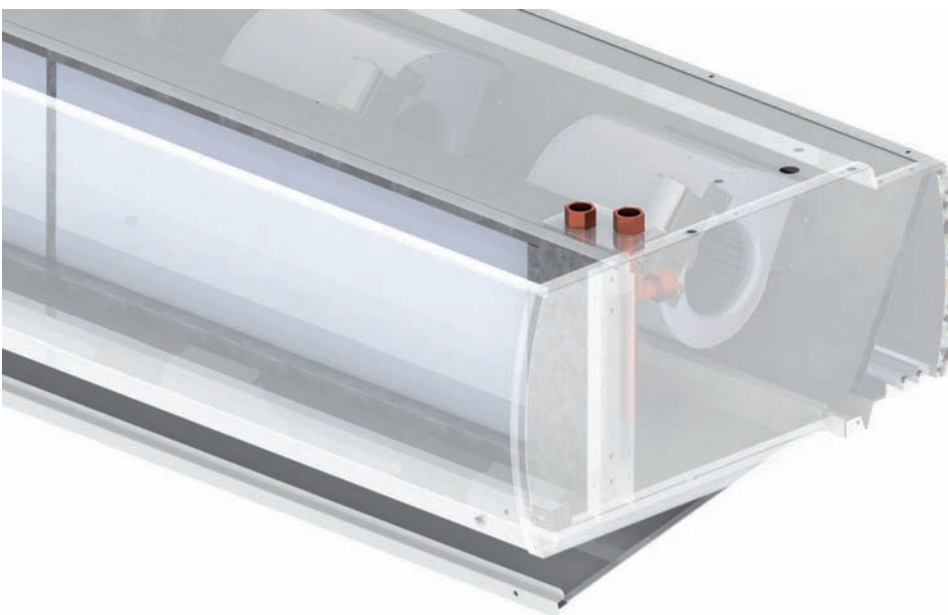
**Dynamic advertising „DR"**

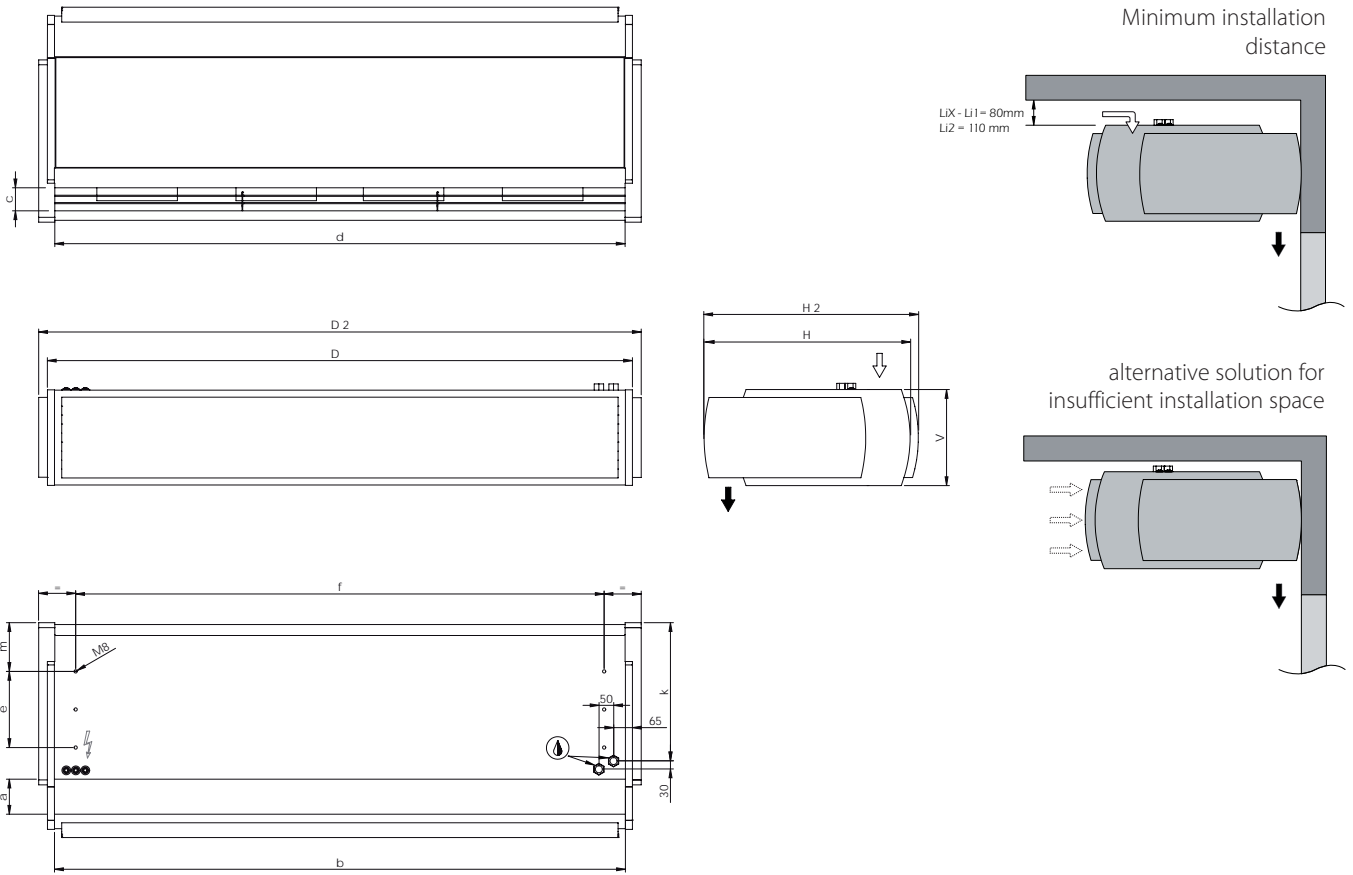
The use of TFT opens a new dimension in use of the air curtain. It creates a very unconventional marketing banner, which ensures very effective marketing by its unprecedented placing. It also reduces the demands for other multimedia device, because unit itself entirely replaces the standard active marketing tools. Connection compatibility of the system allows the device to become a part of a local marketing network.





- ✓ A new attractive design suitable to any interior
- ✓ Maximum efficiency
- ✓ Extraordinary performance – installation height up to 3.6m
- ✓ Wide area of applicability
- ✓ Variable colour design
- ✓ Integration of static or dynamic advertisement into front panel possible





Type - comfort air curtain			THCP 100-4- LiX	THCP 150-4- LiX	THCP 200-4- LiX	THCP 250-4- LiX	THCP 100-4- Li0	THCP 150-4- Li0	THCP 200-4- Li0	THCP 250-4- Li0	THCP 100-4- Li1	THCP 150-4- Li1	THCP 200-4- Li1	THCP 250-4- Li1	THCP 100-4- Li2	THCP 150-4- Li2	THCP 200-4- Li2	THCP 250-4- Li2
Air outlet aperture height.		[m]	2,2	2,2	2,2	2,2	2,5	2,5	2,5	2,5	2,8	2,8	2,8	2,8	3,5	3,5	3,5	3,5
Dimensions	length	D [mm]	1000	1500	2000	2470	1000	1500	2000	2470	1000	1500	2000	2470	1000	1500	2000	2470
	length	D2 [mm]	1060	1560	2060	2530	1060	1560	2060	2530	1060	1560	2060	2530	1060	1560	2060	2530
	height	V [mm]	330	330	330	330	330	330	330	330	330	330	330	330	380	380	380	380
	depth	H [mm]	700	700	700	700	700	700	700	700	700	700	700	700	830	830	830	830
	depth	H2 [mm]	730	730	730	730	730	730	730	730	730	730	730	730	860	860	860	860
Dimensions of the suction grille	width	a [mm]	120	120	120	120	120	120	120	120	120	120	120	120	140	140	140	140
	length	b [mm]	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50
Dimensions of the outlet grille	width	c [mm]	80	80	80	80	80	80	80	80	80	80	80	80	100	100	100	100
	length	d [mm]	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50	D-50
Mounting		m [mm]	160	160	160	160	160	160	160	160	160	160	160	160	185	185	185	185
		e [mm]	260	260	260	260	260	260	260	260	260	260	260	260	320	320	320	320
		f [mm]	805	1305	1805	2275	805	1305	1805	2275	805	1305	1805	2275	805	1305	1805	2275
Connection		k [mm]	470	470	470	470	470	470	470	470	470	470	470	470	560	560	560	560

**Technical data - Li air curtains with AC fans**

Technical data	THCP 100-4- Lix N(E)	THCP 150-4- Lix N(E)	THCP 200-4- Lix N(E)	THCP 250-4- Lix N(E)	THCP 100-4- LiO N(E)	THCP 150-4- LiO N(E)	THCP 200-4- LiO N(E)	THCP 250-4- LiO N(E)	THCP 100-4- Li1 N(E)	THCP 150-4- Li1 N(E)	THCP 200-4- Li1 N(E)	THCP 250-4- Li1 N(E)	THCP 100-4- Li2 N(E)	THCP 150-4- Li2 N(E)	THCP 200-4- Li2 N(E)	THCP 250-4- Li2 N(E)
Air handling capacity [m <sup>3</sup> /h]	1600	2420	3250	4050	2100	3200	4300	5400	2600	3650	5250	6380	3880	5250	8150	9400
hot water heater (water 80/60/18°C)																
i=18°C capacity ** [kW]	11,6	19,2	27,5	34,6	13,5	22,5	32,3	40,9	15,1	24,3	36,2	45,0	20,5	33,6	50,0	61,2
pressure loss [kPa]	5,3	3,8	9,4	7,2	7,0	5,1	12,6	9,7	8,6	5,8	15,5	11,5	3,8	8,1	5,9	6,6
flow volume rate [m <sup>3</sup> /h]	0,47	0,79	1,15	1,48	0,58	0,94	1,37	1,73	0,65	1,0	1,55	1,9	0,86	1,44	2,12	2,63
hot water heater (water 60/40/18°C)																
i=18°C capacity ** [kW]	6,5	10,8	15,9	20,0	7,5	12,6	18,6	23,4	8,3	13,5	20,7	25,6	11,0	18,8	27,7	34,2
pressure loss [kPa]	2,0	1,5	3,8	2,8	2,6	1,9	5,0	3,8	3,2	2,2	6,1	4,5	1,3	3,1	2,2	2,5
flow volume rate [m <sup>3</sup> /h]	0,25	0,43	0,65	0,83	0,29	0,54	0,79	0,97	0,32	0,58	0,86	1,08	0,47	0,79	1,19	1,44
Connection [DN]	20	20	20	20	20	20	20	20	20	20	20	20	20	20	25	32
Electric heater**																
capacity alt 1 Max. [kW]	5	5	10	12,5	5	7,5	12,5	15	5	7,5	15	17,5	7,5	10	15	17,5
capacity alt 2 Max. [kW]	7,5	7,5	12,5	15	7,5	10	15	17,5	7,5	10	20	20	10	12,5	20	22,5
capacity alt 3 Max. [kW]	-	10	15	17,5	10	12,5	17,5	20	10	12,5	22,5	25	12,5	15	25	27,5
capacity alt 4 Max. [kW]	-	-	-	20	-	15	20	22,5	-	15	25	27,5	15	17,5	30	30
power supply*** [V]	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Section [number]	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
AC Fan																
fan power input [W]	540	810	1080	1350	540	810	1080	1350	810	1080	1350	1620	1080	1350	2160	2430
fan current [A]	2,4	3,6	4,8	6,0	2,4	3,6	4,8	6,0	3,6	4,8	6,0	7,2	4,8	6,0	9,8	10,8
fan voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
Controller type - ambient and water heated air curtains	ECON, DITRONIC TOUCH															
Controller type - electric heating	ECON, DITRONIC TOUCH															
Protection degree	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22
Noise level dB (A)	52	53	55	56	55	58	61	63	59	62	62	65	61	63	65	66
Weight [kg]	53	76	98	125	53	76	98	125	58	80	102	130	71	98	133	163

Technical data	THCP 100-4- Lix NN	THCP 150-4- Lix NN	THCP 200-4- Lix NN	THCP 250-4- Lix NN	THCP 100-4- LiO NN	THCP 150-4- LiO NN	THCP 200-4- LiO NN	THCP 250-4- LiO NN	THCP 100-4- Li1 NN	THCP 150-4- Li1 NN	THCP 200-4- Li1 NN	THCP 250-4- Li1 NN	THCP 100-4- Li2 NN	THCP 150-4- Li2 NN	THCP 200-4- Li2 NN	THCP 250-4- Li2 NN
Air handling capacity [m <sup>3</sup> /h]	1560	2350	3200	4100	2020	3100	4200	5250	2650	3925	5050	6150	3550	5700	7800	9850
hot water heater (water 70/50/18°C)																
i=18°C capacity ** [kW]	12,8	21,6	30,2	38,6	15,0	25,8	36,0	45,2	17,7	29,8	40,3	49,9	23,5	41,0	57,7	73,1
pressure loss [kPa]	3,4	6,9	6,8	5,1	4,5	9,5	9,3	6,8	5,9	12,4	11,5	8,1	7,0	11,5	11,0	9,0
flow volume rate [m <sup>3</sup> /h]	0,54	0,9	1,29	1,66	0,61	1,08	1,51	1,91	0,76	1,26	1,73	2,12	1,0	1,76	2,45	3,13
hot water heater (water 60/40/18°C)																
i=18°C capacity ** [kW]	9,3	15,9	22,3	28,5	10,8	18,9	26,5	33,2	12,7	21,8	29,6	36,5	16,9	29,9	42,2	53,2
pressure loss [kPa]	1,9	4,2	4,1	3,1	2,6	5,7	5,6	4,0	3,4	7,3	6,8	4,8	4,0	6,8	6,5	5,3
flow volume rate [m <sup>3</sup> /h]	0,39	0,68	0,94	1,19	0,43	0,79	1,11	1,40	0,54	0,9	1,26	1,55	0,72	1,26	1,80	2,27
Connection [DN]	20	20	20	20	20	20	20	20	20	20	20	20	20	20	25	32
AC Fan																
fan power input [W]	540	810	1080	1350	540	810	1080	1350	810	1080	1350	1620	1080	1620	2160	2700
fan current [A]	2,4	3,6	4,8	6,0	2,4	3,6	4,8	6,0	3,6	4,8	6,0	7,2	4,8	7,2	9,6	12,0
fan voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
Controller type - ambient and water heated air curtains	ECON, DITRONIC TOUCH															
Protection degree	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22
Noise level dB (A)	52	53	55	56	55	58	61	63	59	62	62	65	61	63	65	66
Weight [kg]	54	78	101	124	54	78	101	124	59	82	105	128	72	104	136	171

\*\* Electric heating elements can be supplied in different ratings if required.

Technical data for NY (NX) heat exchangers

Technical data	THCP 100-4- Lix NX	THCP 150-4- Lix NX	THCP 200-4- Lix NX	THCP 250-4- Lix NX	THCP 100-4- LiO NX	THCP 150-4- LiO NX	THCP 200-4- LiO NX	THCP 250-4- LiO NX	THCP 100-4- Li2 NX	THCP 150-4- Li2 NX	THCP 200-4- Li2 NX	THCP 250-4- Li2 NX	THCP 100-4- Li2 NY	THCP 150-4- Li2 NY	THCP 200-4- Li2 NY	THCP 250-4- Li2 NY
Air handling capacity [m³/h]	1650	2300	3050	3900	2200	2950	4000	5800	2650	4650	5850	7700	2880	5050	7050	8900
hot water heater (water 40/30/18°C)																
i=18°C capacity ** [kW]	7,7	12,0	16,5	21,3	9,5	14,4	20,1	28,7	12,0	21,7	28,9	37,6	12,7	23,0	33,0	41,7
pressure loss [kPa]	4,5	5,9	7,1	10,4	6,5	8,3	10,3	17,8	12,7	15,5	18,8	15,6	14,1	17,2	23,8	18,8
flow volume rate [m³/h]	0,65	1,0	1,40	1,8	0,79	1,22	1,73	2,45	1,0	1,84	2,45	3,20	1,08	1,95	2,80	3,56
hot water heater (water 35/25/18°C)																
i=18°C capacity ** [kW]	5,1	8,2	11,3	14,8	6,2	9,7	13,7	19,6	8,1	14,7	19,8	25,7	8,5	15,6	22,5	28,3
pressure loss [kPa]	2,2	3,1	3,7	5,5	3,1	4,2	5,3	9,2	6,3	7,8	9,7	8,0	7,0	8,7	12,2	9,5
flow volume rate [m³/h]	0,43	0,68	0,97	1,26	0,50	0,83	1,15	1,66	0,68	1,26	1,69	2,20	0,72	1,33	1,90	2,41
Connection [DN]	20	20	20	20	20	20	20	20	20	20	20	20	20	20	25	32
AC Fan																
fan power input [W]	540	810	1080	1350	810	810	1080	1350	810	1350	1890	2160	1080	1620	2160	2700
fan current [A]	2,4	3,6	4,8	6,0	3,6	3,6	4,8	6,0	3,6	6,0	8,4	9,6	4,8	7,2	9,6	12
fan voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
Controller type - ambient and water heated air curtains	ECON, DITRONIC TOUCH															
Protection degree	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22
Noise level dB (A)	54	57	57	58	58	60	60	61	58	60	61	62	60	61	64	65
Weight [kg]	59	78	101	124	59	78	101	124	68	100	133	163	72	104	138	173



## Technical data - Li air curtains with EC fans

Technical data	THCP 100-4- Lix N	THCP 150-4- Lix N	THCP 200-4- Lix N	THCP 250-4- Lix N	THCP 100-4- LiO N	THCP 150-4- LiO N	THCP 200-4- LiO N	THCP 250-4- LiO N	THCP 100-4- Li1 N	THCP 150-4- Li1 N	THCP 200-4- Li1 N	THCP 250-4- Li1 N	THCP 100-4- Li2 N	THCP 150-4- Li2 N	THCP 200-4- Li2 N	THCP 250-4- Li2 N
Air handling capacity [m³/h]	1580	2440	3280	4120	1975	3050	4100	5150	2625	3850	4950	7525	4150	6500	8625	10125
hot water heater (water 70/50/18°C)																
i=18°C capacity ** [kW]	9,0	15,1	21,9	27,6	10,1	17,2	24,8	31,4	11,8	19,5	27,6	38,7	16,3	29,4	42,4	50,3
pressure loss [kPa]	3,5	2,6	6,4	4,9	4,3	3,2	8,1	6,2	5,7	4,0	9,8	9,1	2,6	6,6	16,5	5,8
flow volume rate [m³/h]	0,36	0,65	0,94	1,15	0,43	0,72	1,04	1,33	0,50	0,83	1,15	1,65	0,68	1,26	1,80	2,12
hot water heater (water 60/40/18°C)																
i=18°C capacity ** [kW]	5,9	10,0	14,8	18,7	6,7	11,4	16,8	21,6	7,7	12,9	18,7	26,0	10,4	19,5	28,6	33,4
pressure loss [kPa]	1,7	1,3	3,3	2,5	2,1	1,6	4,1	3,2	2,7	2,0	5,0	4,6	1,2	3,3	8,4	2,9
flow volume rate [m³/h]	0,25	0,43	0,61	0,79	0,25	0,47	0,72	0,90	0,32	0,54	0,79	1,16	0,43	0,83	1,22	1,40
Connection [DN]	20	20	20	20	20	20	20	20	20	20	20	20	20	20	25	32
EC Fan																
fan power input [W]	330	495	660	825	330	495	660	825	495	660	825	1320	990	1320	1650	1815
fan current [A]	2,4	3,6	4,8	6	2,4	3,6	4,8	6	3,6	4,8	6	9,6	7,2	9,6	12	13,2
fan voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
Controller type - ambient and water heated air curtains	ECON EC, DITRONIC TOUCH															
Protection degree	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22
Weight [kg]	49	70	90	115	49	70	90	115	52	72	92	118	63	88	118	145

Technical data	THCP 100-4- Lix NN	THCP 150-4- Lix NN	THCP 200-4- Lix NN	THCP 250-4- Lix NN	THCP 100-4- LiO NN	THCP 150-4- LiO NN	THCP 200-4- LiO NN	THCP 250-4- LiO NN	THCP 100-4- Li1 NN	THCP 150-4- Li1 NN	THCP 200-4- Li1 NN	THCP 250-4- Li1 NN	THCP 100-4- Li2 NN	THCP 150-4- Li2 NN	THCP 200-4- Li2 NN	THCP 250-4- Li2 NN
Air handling capacity [m³/h]	1875	2950	4000	5025	2100	3650	4775	5825	2425	4200	5425	6525	3775	6025	8150	9575
hot water heater (water 70/50/18°C)																
i=18°C capacity ** [kW]	14,4	25,0	34,9	44,0	15,4	28,5	39,0	48,2	16,8	31,0	42,1	51,7	24,3	42,4	59,2	71,8
pressure loss [kPa]	4,1	9,0	8,8	6,5	4,7	11,4	10,8	7,7	5,4	13,3	12,4	8,7	7,5	12,2	11,5	8,7
flow volume rate [m³/h]	0,61	1,04	1,48	1,87	0,65	1,22	1,66	2,05	0,72	1,33	1,80	2,19	1,04	1,80	2,52	3,06
hot water heater (water 60/40/18°C)																
i=18°C capacity ** [kW]	9,6	17,1	23,9	30,0	10,2	19,4	26,6	32,8	11,1	21,0	28,7	35,2	16,5	28,7	40,1	48,6
pressure loss [kPa]	2,1	4,7	4,6	3,4	2,3	5,9	5,6	4,0	2,7	6,9	6,5	4,5	3,7	6,2	5,9	4,5
flow volume rate [m³/h]	0,39	0,72	1,00	1,26	0,43	0,83	1,11	1,40	0,47	0,90	1,22	1,48	0,68	1,22	1,69	2,05
Connection [DN]	20	20	20	20	20	20	20	20	20	20	20	20	20	20	32	32
EC Fan																
fan power input [W]	330	495	660	825	495	660	825	990	495	825	990	1155	990	1320	1650	1815
fan current [A]	2,4	3,6	4,8	6	3,6	4,8	6	7,2	3,6	6	7,2	8,4	7,2	9,6	12	13,2
fan voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
Controller type - ambient and water heated air curtains	ECON EC, DITRONIC TOUCH															
Protection degree	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22
Weight [kg]	50	72	93	114	50	72	93	114	53	74	95	116	64	92	120	146

## Technical data for NY (NX) heat exchangers

Technická data	THCP 100-4- Lix NX	THCP 150-4- Lix NX	THCP 200-4- Lix NX	THCP 250-4- Lix NX	THCP 100-4- LiO NX	THCP 150-4- LiO NX	THCP 200-4- LiO NX	THCP 250-4- LiO NX	THCP 100-4- Li2 NX	THCP 150-4- Li2 NX	THCP 200-4- Li2 NX	THCP 250-4- Li2 NX	THCP 100-4- Li2 NY	THCP 150-4- Li2 NY	THCP 200-4- Li2 NY	THCP 250-4- Li2 NY
Air handling capacity [m <sup>3</sup> /h]	1725	2775	3800	5425	1950	3350	4425	6025	2100	3700	5275	6475	3350	5225	7175	8675
hot water heater (water 50/30/18°C)																
i=18°C capacity ** [kW]	9,8	17,2	24,4	34,5	10,6	19,6	27,1	37,1	11,1	20,9	30,5	38,9	17,3	29,2	42,1	51,2
pressure loss [kPa]	1,9	3,2	4,1	7,0	2,2	4,0	5,0	7,9	2,4	4,6	6,1	8,7	6,9	7,4	13,9	7,6
flow volume rate [m <sup>3</sup> /h]	0,39	0,72	1,04	1,48	0,43	0,83	1,15	1,58	0,47	0,86	1,29	1,66	0,72	1,22	1,80	2,19
hot water heater (water 40/30/18°C)																
i=18°C capacity ** [kW]	7,0	12,1	17,1	24,0	7,6	13,8	19,0	25,8	8,0	14,8	21,5	27,2	12,3	20,6	29,5	35,9
pressure loss [kPa]	3,7	6,0	7,6	12,9	4,3	7,6	9,3	14,7	4,7	8,7	11,6	16,2	13,2	14,1	25,9	14,3
flow volume rate [m <sup>3</sup> /h]	0,58	1,00	1,44	2,05	0,65	1,15	1,62	2,19	0,68	1,26	1,84	2,30	1,04	1,76	2,52	3,06
Connection [DN]	20	20	20	20	20	20	20	20	20	20	20	20	20	25	32	32
EC Fan																
fan power input [W]	330	495	660	990	495	660	825	1155	495	825	1155	1320	990	1320	1650	1815
fan current [A]	2,4	3,6	4,8	7,2	3,6	4,8	6	8,4	3,6	6	8,4	9,6	7,2	9,6	12	13,2
fan voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
Controller type - ambient and water heated air curtains	ECON EC, DITRONIC TOUCH															
Protection degree	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22
Weight [kg]	53	72	93	114	53	72	93	114	53	72	100	121	62	90	118	146

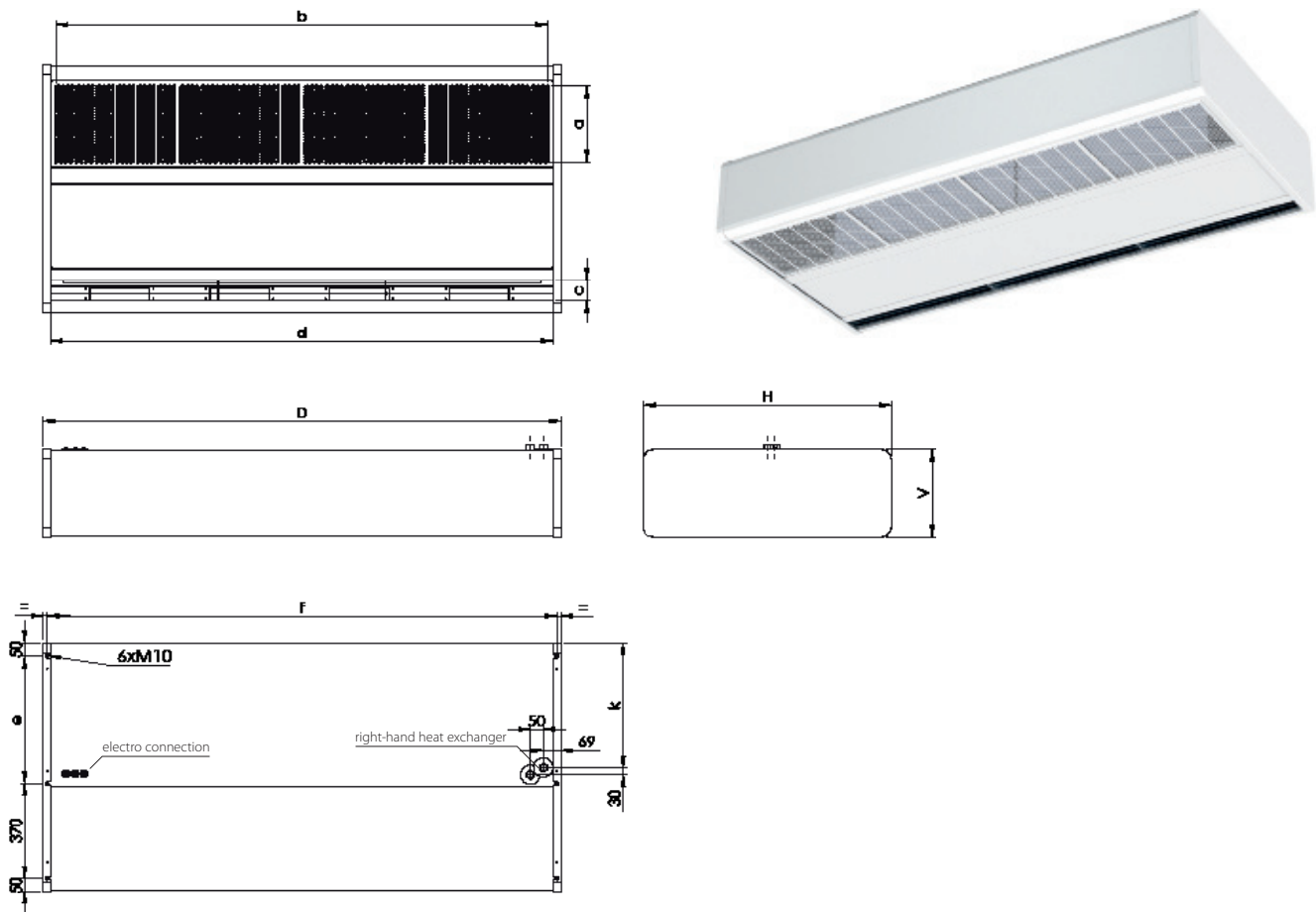


## Suspended ceiling air curtain – design “OS”

The design of the air curtains makes them suitable also for prestige interiors. The hot water curtains are fitted with the EU2 filter in standard that significantly contributes to cleanliness of the circulating air. The “Li” door air curtains are designed for basic environment.

### 180° Design air curtain (“OS”)

In standard, the air curtain is made from galvanized metal sheet and painted with RAL 9010 (a different colour available at extra costs). Perforated suction grille is painted in RAL 9010, removable, and fitted with EU2 filter for the hot water version of the air curtain. The outlet grille is available in anodized aluminium.

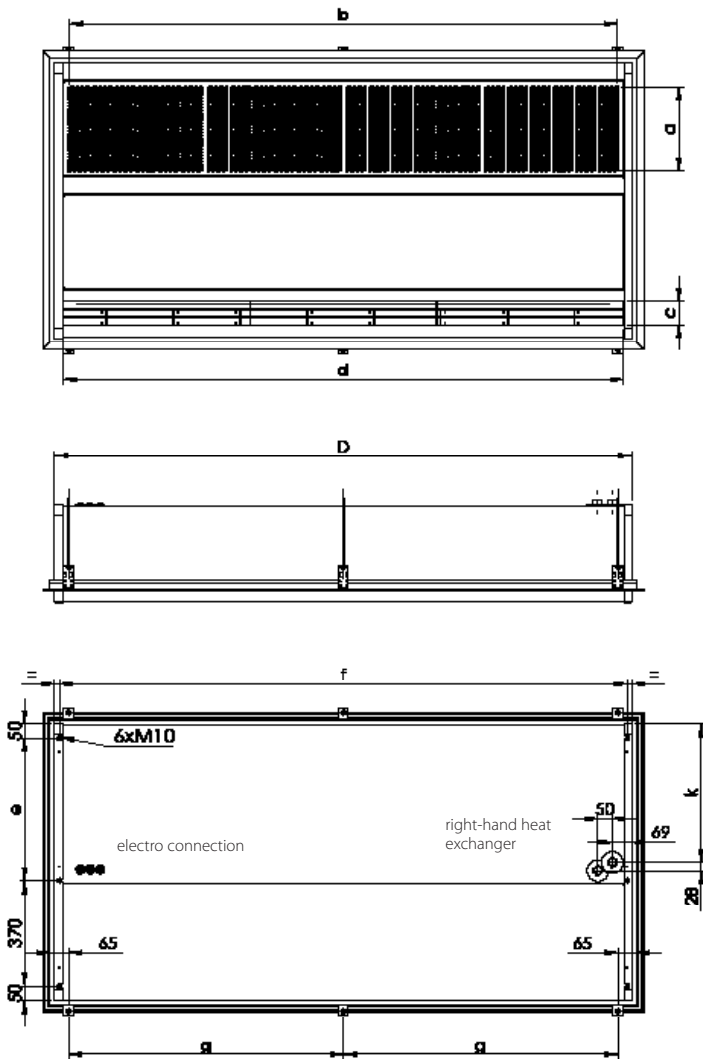


Technical data - dimensions			THCP 100-3-Lix	THCP 150-3-Lix	THCP 200-3-Lix	THCP 250-3-Lix	THCP 100-3-Li0	THCP 150-3-Li0	THCP 200-3-Li0	THCP 250-3-Li0	THCP 100-3-Li1	THCP 150-3-Li1	THCP 200-3-Li1	THCP 250-3-Li1	THCP 100-3-Li2	THCP 150-3-Li2	THCP 200-3-Li2	THCP 250-3-Li2
Suspension height max.		[m]	2,2	2,2	2,2	2,2	2,5	2,5	2,5	2,5	2,8	2,8	2,8	2,8	3,5	3,5	3,5	3,5
Air curtain dimensions	length	D [mm]	1010	1510	2010	2510	1010	1510	2010	2510	1010	1510	2010	2510	1010	1510	2010	2510
	height	V [mm]	345	345	345	345	345	345	345	345	345	345	345	345	390	390	390	390
	width	H [mm]	965	965	965	965	965	965	965	965	965	965	965	965	1000	1000	1000	1000
Suction grille dimensions	width	a [mm]	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325
	length	b [mm]	950	1450	1950	2450	950	1450	1950	2450	950	1450	1950	2450	950	1450	1950	2450
Outlet grille dimensions	width	c [mm]	80	80	80	80	80	80	80	80	80	80	80	80	100	100	100	100
	length	d [mm]	950	1450	1950	2450	950	1450	1950	2450	950	1450	1950	2450	950	1450	1950	2450
Installation		e [mm]	495	495	495	495	495	495	495	495	495	495	495	495	530	530	530	530
		f [mm]	975	1475	1975	2475	975	1475	1975	2475	975	1475	1975	2475	975	1475	1975	2475
		g [mm]	1x910	2x705	2x955	3x795	1x910	2x705	2x955	3x795	1x910	2x705	2x955	3x795	1x910	2x705	2x955	3x795
		g2 [mm]	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1075	1075	1075
Connection		k [mm]	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485

Suspended ceiling air curtain – design “OS with frame”

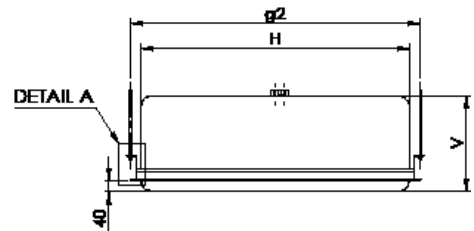
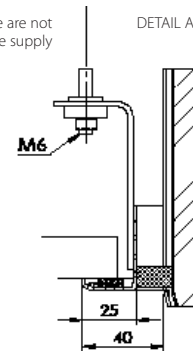
180° Design air curtain with a frame (“OS with frame”)

In standard, the air curtain is made from galvanized metal sheet and painted with RAL 9010 (a different colour available at extra costs). Perforated suction grille is painted in RAL 9010, removable, and fitted with EU2 filter for the hot water version of the air curtain. The outlet grille and the frame are available in anodized aluminium.



Thread bars for the frame are not in the scope of the supply

DETAIL A

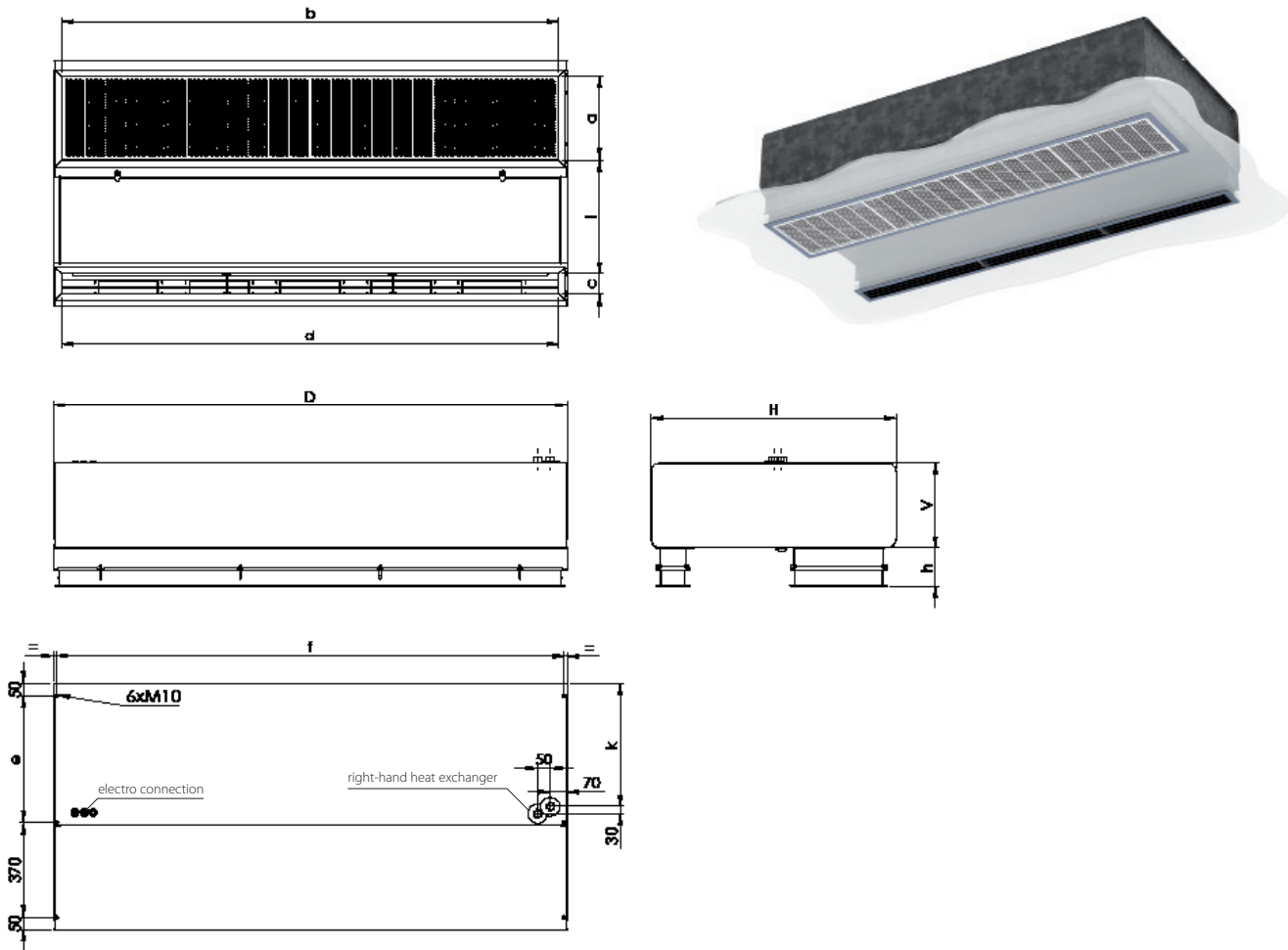


Technical data - dimensions		THCP 100-3-Lix	THCP 150-3-Lix	THCP 200-3-Lix	THCP 250-3-Lix	THCP 100-3-Li0	THCP 150-3-Li0	THCP 200-3-Li0	THCP 250-3-Li0	THCP 100-3-Li1	THCP 150-3-Li1	THCP 200-3-Li1	THCP 250-3-Li1	THCP 100-3-Li2	THCP 150-3-Li2	THCP 200-3-Li2	THCP 250-3-Li2
Suspension height max.	[m]	2,2	2,2	2,2	2,2	2,5	2,5	2,5	2,5	2,8	2,8	2,8	2,8	3,5	3,5	3,5	3,5
Air curtain dimensions	length D [mm]	1010	1510	2010	2480	1010	1510	2010	2480	1010	1510	2010	2480	1010	1510	2010	2480
	height V [mm]	345	345	345	345	345	345	345	345	345	345	345	345	390	390	390	390
	width H [mm]	965	965	965	965	965	965	965	965	965	965	965	965	1000	1000	1000	1000
Suction grille dimensions	width a [mm]	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325
	length b [mm]	950	1450	1950	2420	950	1450	1950	2420	950	1450	1950	2420	950	1450	1950	2420
Outlet grille dimensions	width c [mm]	80	80	80	80	80	80	80	80	80	80	80	80	100	100	100	100
	length d [mm]	950	1450	1950	2420	950	1450	1950	2420	950	1450	1950	2420	950	1450	1950	2420
Installation	e [mm]	495	495	495	495	495	495	495	495	495	495	495	495	530	530	530	530
	f [mm]	975	1475	1975	2445	975	1475	1975	2445	975	1475	1975	2445	975	1475	1975	2445
	g [mm]	1x910	2x705	2x955	3x795	1x910	2x705	2x955	3x795	1x910	2x705	2x955	3x795	1x910	2x705	2x955	3x795
	g2 [mm]	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1075	1075	1075	1075
Connection	k [mm]	485	485	485	485	485	485	485	485	485	485	485	485	515	515	515	515

## Suspended ceiling air curtain – “DP” design

### Suspended ceiling air curtain – fully integrated (“DP”)

In standard, the air curtain is made from galvanized metal sheet (a different colour available at extra costs). Perforated suction grille is painted in RAL 9010, removable, and fitted with EU2 filter for the hot water version of the air curtain. The frame of suction grille and the outlet grille are available in anodized aluminium. In case of installation of the air curtain we recommend that revision door to the suspended ceiling is made for potential service action.

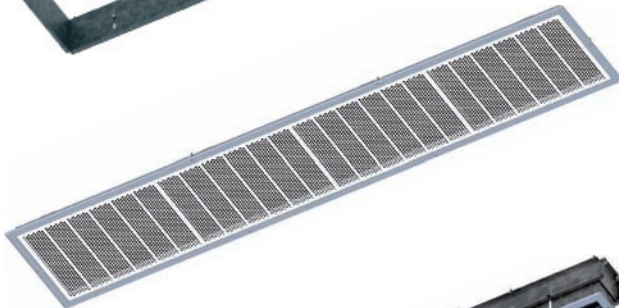


Technical data - dimensions			THCP 100-3-Lix	THCP 150-3-Lix	THCP 200-3-Lix	THCP 250-3-Lix	THCP 100-3-Li0	THCP 150-3-Li0	THCP 200-3-Li0	THCP 250-3-Li0	THCP 100-3-Li1	THCP 150-3-Li1	THCP 200-3-Li1	THCP 250-3-Li1	THCP 100-3-Li2	THCP 150-3-Li2	THCP 200-3-Li2	THCP 250-3-Li2
Suspension height max.		[m]	2,2	2,2	2,2	2,2	2,5	2,5	2,5	2,5	2,8	2,8	2,8	2,8	3,5	3,5	3,5	3,5
Air curtain dimensions	length	D [mm]	1010	1510	2010	2480	1010	1510	2010	2480	1010	1510	2010	2480	1010	1510	2010	2480
	height	V [mm]	345	345	345	345	345	345	345	345	345	345	345	345	390	390	390	390
	width	H [mm]	965	965	965	965	965	965	965	965	965	965	965	965	1000	1000	1000	1000
Suction grille dimensions	width	a [mm]	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325
	length	b [mm]	935	1435	1935	2405	935	1435	1935	2405	935	1435	1935	2405	935	1435	1935	2405
Outlet grille dimensions	width	c [mm]	80	80	80	80	80	80	80	80	80	80	80	80	100	100	100	100
	length	d [mm]	935	1435	1935	2405	935	1435	1935	2405	935	1435	1935	2405	935	1435	1935	2405
Installation		e [mm]	495	495	495	495	495	495	495	495	495	495	495	495	530	530	530	530
		f [mm]	975	1475	1975	2445	975	1475	1975	2445	975	1475	1975	2445	975	1475	1975	2445
	min.	h [mm]	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	max.	h [mm]	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
		i [mm]	440	440	440	440	440	440	440	440	440	440	440	440	440	460	460	460
Connection		k [mm]	485	485	485	485	485	485	485	485	485	485	485	485	515	515	515	515

Summary of components available for suspended ceiling air curtains by model selected



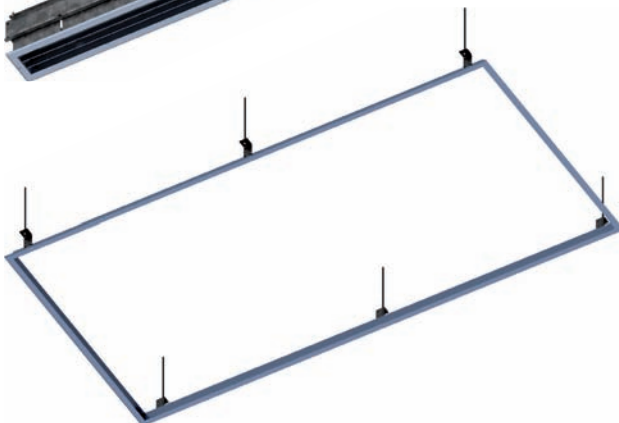
Air curtain suction adaptor is made from galvanized metal sheet, and painted in standard in RAL 9010 (no surface finish is applied for DP version).









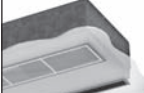
The perforated suction grille is painted in RAL 9010 in standard, and the grille frame is made from anodized aluminium.



Both the outlet grille and louvres are made from anodized aluminium.



The designed covering frame is made from anodized aluminium. (thread bars not in the scope of supply)

	Suction adaptor	Scution grille	Outlet adaptor incl. grille	Siding frame for 180° version
Accessories for air curtains				
 Air curtain 180°	—	✓	—	—
 Air curtain 180° version with a frame for a recessed mounting	—	✓	—	✓
 Air curtain - recessed version	✓	✓	✓	—

## Optional accessories



### 2-way and 3-way valves for temperature regulation

According to the customer requirements, the water heat exchanger can be delivered with integrated 2-way or 3-way valve with a regulation head. The valve gearing can be thermostatic or electrothermic.

Thermostatic valve head is always delivered with separate sensor (20 - 50°C), that is installed behind the heat exchanger - regulation of outlet air.

Thermoelectric valve gearing can be delivered integrated in the heat exchanger. It is characterized by silent and reliable function. If the gearing is in voltage, the sensor is getting warm and after a time delay the gearing continuously closes. When the voltage is out, the gearing starts to continuously open. The gearing is always open with no voltage.

Electrical data: 230V/50Hz - 3V, IP 42.



Technical data for valves	kv*** value	admissible working temperature [°C]	admissible working pressure [bar]	admissible pressure difference [bar]
2-way valve - DN 25 (1")	2,5	120	10	0,25
2-way valve - DN 32 (5/4")	3,8	120	10	0,25
2-way valve - DN 25 XXL (1")*	4,3	120	16	0,20

Technical data for valves	kv*** value	admissible working temperature [°C]	admissible working pressure [bar]	admissible pressure difference [bar]
3-way valve - DN 25 (1")	4,6	100	10	0,50
3-way valve - DN 32 (5/4")	6,4	100	10	0,25
3-way valve - DN 32 XXL (5/4")***	10,0	120	10	0,20
3-way valve - DN 40 XXL (2")***	12,0	120	10	0,20

\* high flow valve

\*\* for DN25, 32 valid for (K) 3.0, for DN25 XXL valid for (K) 6.0

\*\*\* with thermoelectric gearing only



### Door contact: 24V

DKM – mechanical door contact

DKMG – magnetic door contact



### Room thermostat: 230V

- Wall mounting

- version: basic, with a switch, digital or industry with IP54



### PPH – connection flexible tubes

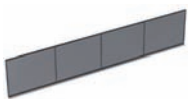
- 300mm long flexible connection pipes with stainless steel or braided reinforcement for ease of connection from the air curtain connections to the system connections.

Set consists of 2 number pipes to DN 20, 25, 32



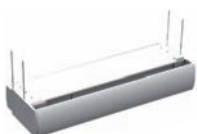
### BMS 0-10V

- controlling the unit by BMS 0-10V



### NF - Spare filters for air curtains

- set of 3 pieces depending on size and air screen performance option

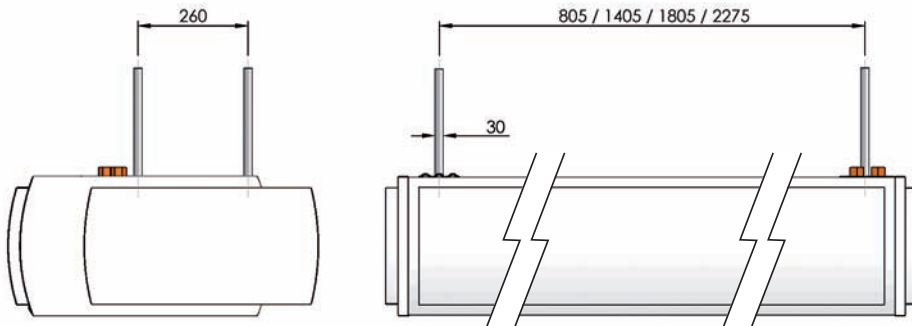


### ZSA – Under ceiling suspension

- Under ceiling suspension with adjustable length of 1000 mm.

- Units levelled by adjustment on the drop rods for air curtains up to 2000 mm length (for more types of hinges, refer to page 17-18)

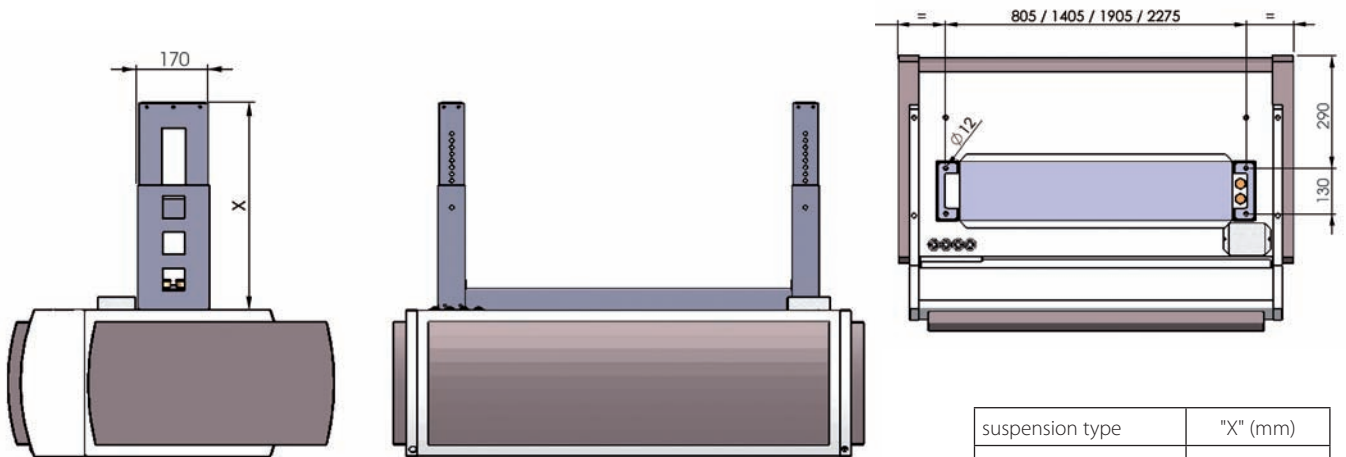
Suspensions type „T” for Li air curtains



The suspension height can be adjusted on demand  
 Suspension colour - grey RAL 7011 or alluminium eloxal coated

suspension type	"X" (mm)
suspension type „T1”	220 - 1200*
suspension type „T2”	220 - 2200
* Minimum suspension height 120 mm	

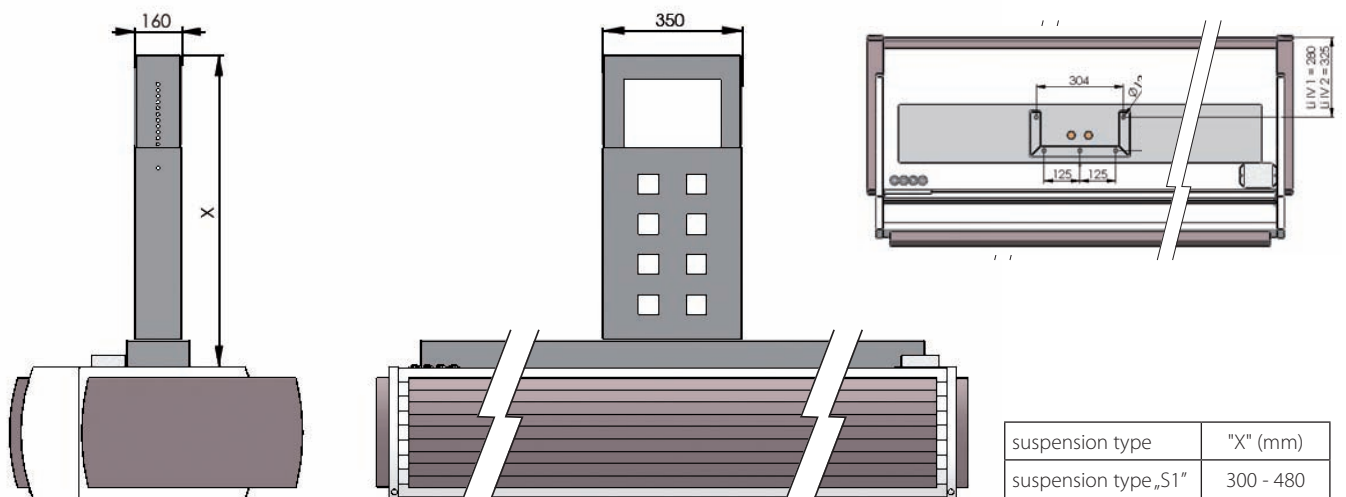
Suspensions type „U” for Li air curtains



The suspension height can be adjusted on demand  
 Suspension colour - grey RAL 7011 or alluminium eloxal coated

suspension type	"X" (mm)
suspension type „U1”	300 - 465
suspension type „U2”	480 - 810
suspension type „U3”	825 - 1455

Suspensions type „S” for Li air curtains

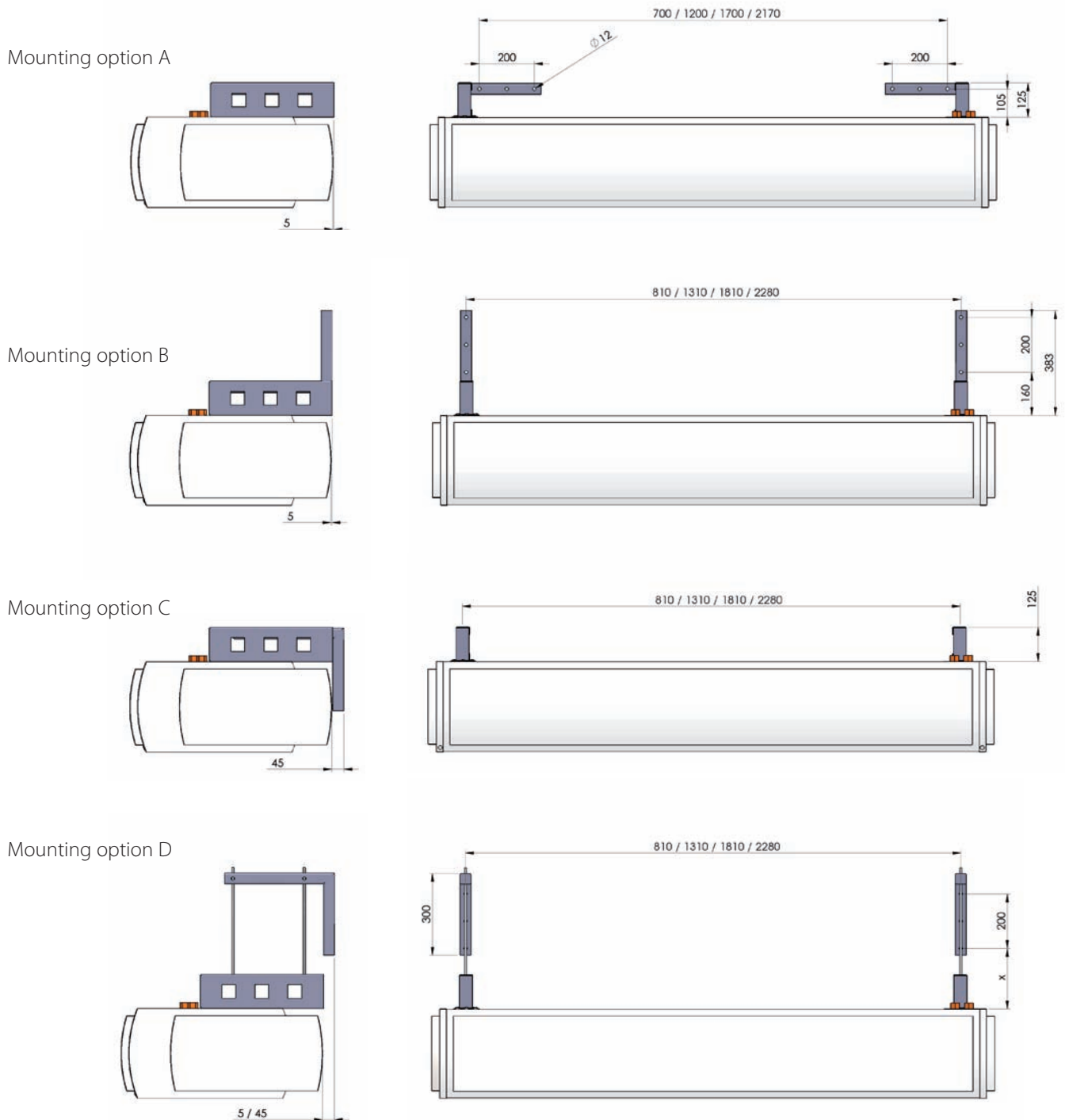
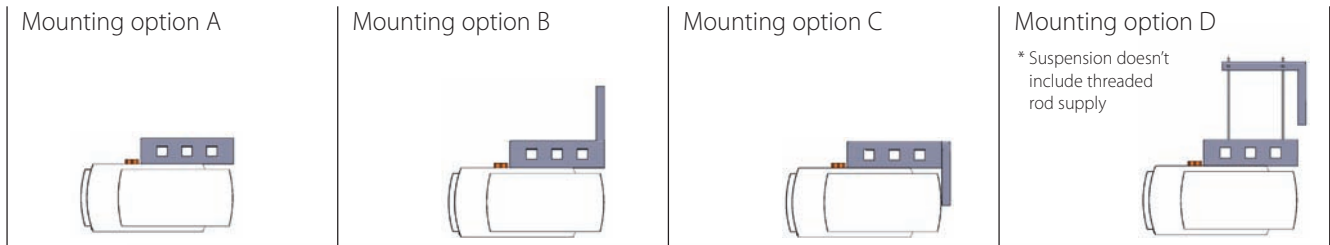


The suspension height can be adjusted on demand  
 Suspension colour - grey RAL 7011 or alluminium eloxal coated

suspension type	"X" (mm)
suspension type „S1”	300 - 480
suspension type „S2”	500 - 875
suspension type „S3”	900 - 1605

## Design suspension options

Wall suspensions type „N” for Li air curtains



**Controllers suitable for water\* and electric air curtains**

Controller type	Water heated air curtains	Electric air curtains
Econ	for all types	for all types
Econ EC	for all types	-
Ditronic Touch	for all types	for all types

\*also for ambient air curtains

**Controller: Econ, Econ EC**

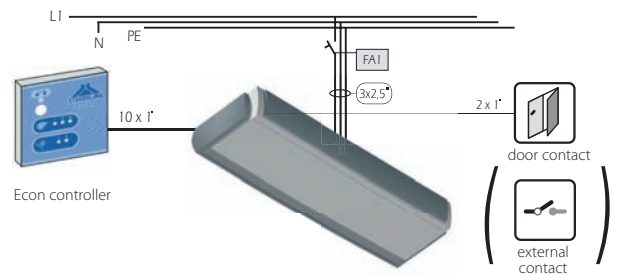
**Econ** - the controller is intended for the fan and heating (both electric and water) control with the possibility to connect external elements, such as door contact, room or outlet thermostat.

**Econ EC** - the controller is intended for the fan and heating control with the possibility to connect external elements, such as door contact, room or outlet thermostat.

**Dimensions:** w.71 x h.71 x d.25 (mm)

Econ controllers are intended for wall mounting only and have protection to IP20.

Diagram of water heated unit



Wiring and protection			
FA1	1 X 10A/C	WL1	3Cx 1,5 (2,5)

Econ controller options:

	potential-free door contact incl. adjustable time delay	standard		small size of the controller, wall mounting, easy handling	standard
	unit chaining in Master/Slave system	only with Econ Dual controller		electrothermic valve control	standard
	room thermostat unit control via external remote contact	standard			

**Control system of water and electrical heated air curtains DITRONIC TOUCH**

Ditronic controller is fitted with an intelligent processor regulator, designed specifically for Comfort and Design air curtains that are fitted with AC or EC fans. Due to the units sleek design and readable blue colour screen, it is suitable for most kinds of interior design applications (from a basic type to the more expensive stylish type). The controller offers local control, control from superior system (BMS) or Modbus compatibility.

**Dimensions of the controller:** 125 long x 90 high x 32 deep



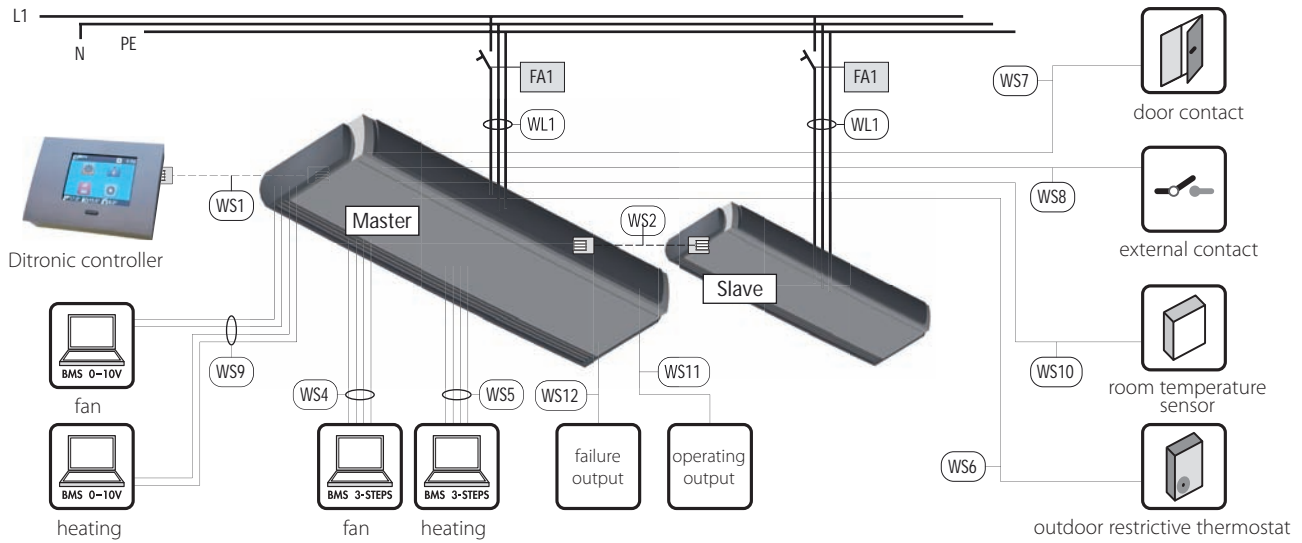
DITRONIC TOUCH



The controller is suitable for the wall mounting and IP20 environment. The controller is to be connected via cable with the RJ45 connector, see picture below

## Air curtain regulation

### Water heated air curtains - diagram

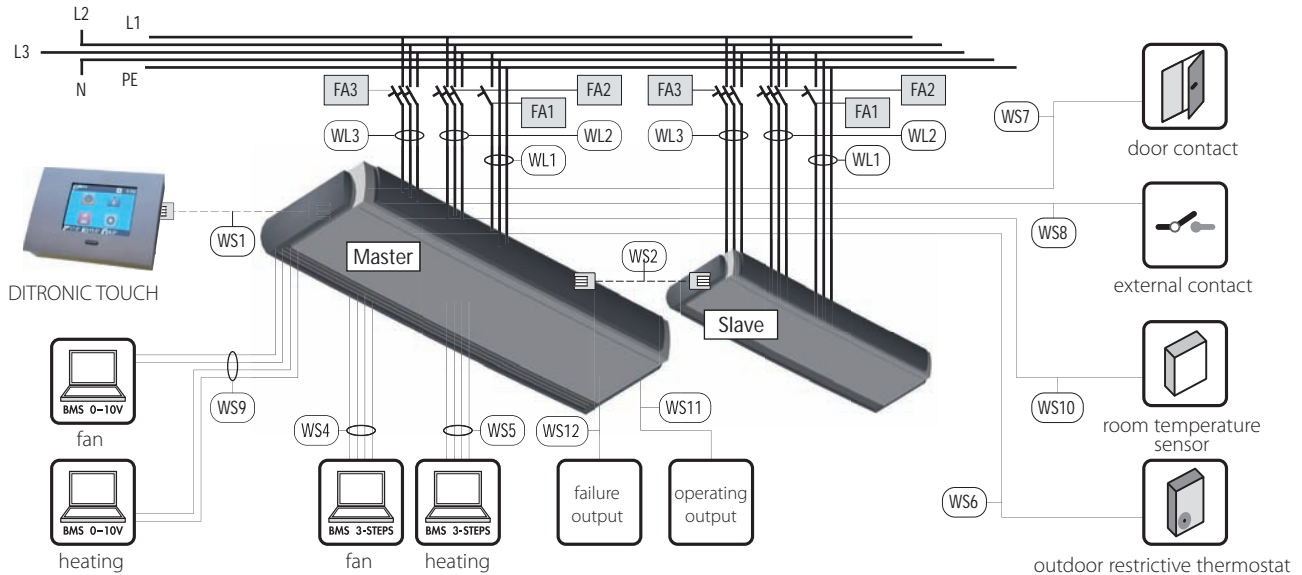


Cables and Protection - water heated air curtains

<b>FA1</b>	1 x 10A/C	<b>WS1</b>	4 x 2 x 0,5	<b>WS5</b>	5D x 1(1,5)	<b>WS9</b>	5D x 1(1,5)	<b>WS13</b>	4 x 2 x 0,5
<b>FA2</b>	1 x 10A/C	<b>WS2</b>	4 x 2 x 0,5	<b>WS6</b>	2A x 1(1,5)	<b>WS10</b>	2A x 1(1,5)	<b>WS14</b>	2D x 1(1,5)
<b>FA3</b>	1 x 10A/C	<b>WS3</b>	4 x 2 x 0,5	<b>WS7</b>	2A x 1(1,5)	<b>WS11</b>	2A x 1(1,5)		
<b>WL1</b>	3C x 1,5(2,5)	<b>WS4</b>	5D x 1(1,5)	<b>WS8</b>	2A x 1(1,5)	<b>WS12</b>	2D x 1(1,5)		

\* valid for ambient units, too

### Electrically heated air curtain (air curtain with AC fans only)



Cables and Protection - electrically heated air curtains

<b>FA1</b>	1 x 16A/C	<b>WL2</b>	see. tab. EO	<b>WS3</b>	4 x 2 x 0,5	<b>WS7</b>	2A x 1(1,5)	<b>WS11</b>	2A x 1(1,5)
<b>FA2</b>	see. tab. EO	<b>WL3</b>	see. tab. EO	<b>WS4</b>	5D x 1(1,5)	<b>WS8</b>	2A x 1(1,5)	<b>WS12</b>	2D x 1(1,5)
<b>FA3</b>	see. tab. EO	<b>WS1</b>	4 x 2 x 0,5	<b>WS5</b>	5D x 1(1,5)	<b>WS9</b>	5D x 1(1,5)	<b>WS13</b>	4 x 2 x 0,5
<b>WL1</b>	3C x 1,5(2,5)	<b>WS2</b>	4 x 2 x 0,5	<b>WS6</b>	2A x 1(1,5)	<b>WS10</b>	2A x 1(1,5)	-	-

Electric Heater (EO)

el. heater	cable (WL2)	circuit breaker (FA2)	cable (WL3)	circuit breaker (FA3)	el. heater	cable (WL2)	circuit breaker (FA2)	cable (WL3)	circuit breaker (FA3)
<b>5 kW</b>	5C x 4	3 x 16A/B	5C x 4	3 x 16A/B	<b>20 kW</b>	5C x 4	3 x 16A/B	5C x 6	3 x 32A/B
<b>7,5 kW</b>	5C x 4	3 x 16A/B	5C x 4	3 x 16A/B	<b>22,5 kW</b>	5C x 4	3 x 16A/B	5C x 6	3 x 32A/B
<b>10 kW</b>	5C x 4	3 x 16A/B	5C x 4	3 x 16A/B	<b>25 kW</b>	5C x 4	3 x 32A/B	5C x 6	3 x 32A/B
<b>12,5 kW</b>	5C x 4	3 x 16A/B	5C x 4	3 x 16A/B	<b>27,5 kW</b>	5C x 6	3 x 32A/B	5C x 6	3 x 32A/B
<b>15 kW</b>	5C x 4	3 x 16A/B	5C x 4	3 x 16A/B	<b>30 kW</b>	5C x 6	3 x 32A/B	5C x 6	3 x 32A/B
<b>17,5 kW</b>	5C x 4	3 x 16A/B	5C x 6	3 x 32A/B	<b>35 kW</b>	5C x 10	3 x 32A/B	5C x 10	3 x 50A/B

## Description of standard functions of Ditronic Touch controller for air curtain regulation.



### Week time clock

The unit is programmable with simple calendar settings in order to run in different mode on working days and during the weekend (options: 1-7 or 1-5 and 6-7).



### Anti-frost protection

All water heated air curtains are equipped with anti-frost protection. This protection works in two stages. When the risk of freezing is detected, the valve opens, the fans turn off and a signal sign is displayed on Ditronic.



### Room anti-frost protection

The room sensor controls the temperature inside of the room and sends a signal to the Ditronic controller to avoid the risk of freezing.



### Indication of the room and outlet temperature

The room, outlet and required temperature is displayed on the front panel.



### Door contact

The unit can be controlled with the door contact. After the door is closed, the delayed running is activated. The delayed time period is adjustable.



### Regulation via room or outlet temperature settings.

The system allows to control the temperature according to the room or outlet air temperature. There is an inbuilt function to restrict the min. outlet temperature at the same time.



### Superior system – 3-step BMS

The whole unit can be regulated by the superior regulation system. 3-grade control of heating and fan is inbuilt in standard. At this kind of control the unit is completely controlled by BMS (building management system).



### Setting the valve door contact

The user has the option to choose whether the valve is dependent on door contact (when the door is closed, the valve closes) or independent (if the temperature difference shows the requirement for heating, the valve remains opened after door closes).



### ON ALARM Failure signalization

The unit is equipped with outputs for failure and operation to signalize the failure on the display.



### Medium temperature indication

Current medium temperature is indicated on the display (water heated units only).



### Restrictive exterior thermostat

When the required temperature is reached, the heating (or the whole unit) can be switched off via the restrictive thermostat.



### MASTER/SLAVE

The units can be connected in series as Master and Slaves. The room sensor is used for MASTER unit only.



### External contact

The Air curtain can be switched on/off from a distant place with the external contact.



### Automatic mode

The unit can run in the automatic mode. When the door is closed, the unit runs on the first step (fan and heating). When the door opens, the fans and heating run on the second or third step depending on the controller settings.



### Additional heating mode

If necessary, the unit can cover a sudden drop of temperature by turning on the additional heating mode. High heating capacity will be reached in a very short time.



Modbus

### Superior system Modbus

The controller offers the user the option to control devices using Modbus protocol.



### Keyboard Lock

The buttons can be easily locked to prevent any unwanted changes of settings.

## Additional accessories for Ditronic controller



### BMS 0-10V

To control the unit by BMS 0-10V it is necessary to order an additional module.

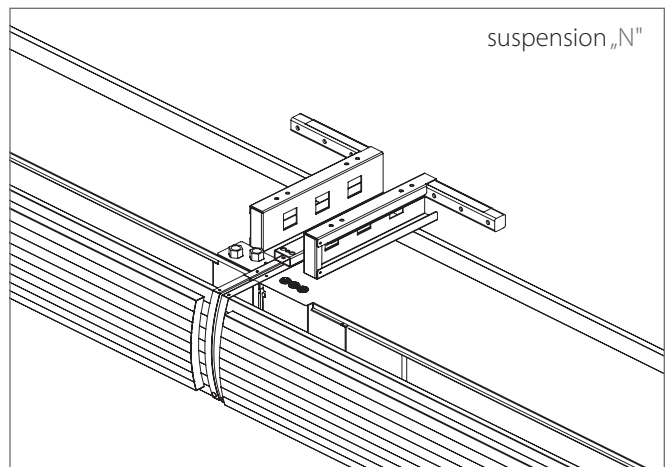
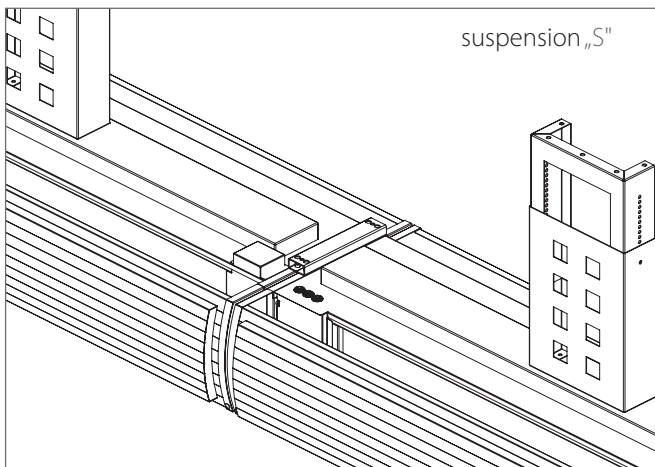
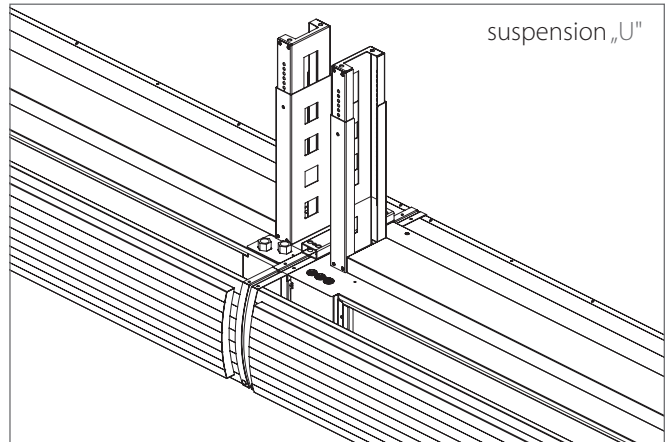
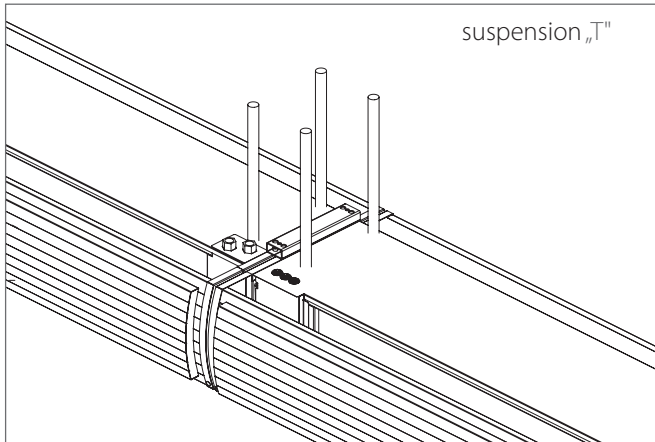


### Wireless controller

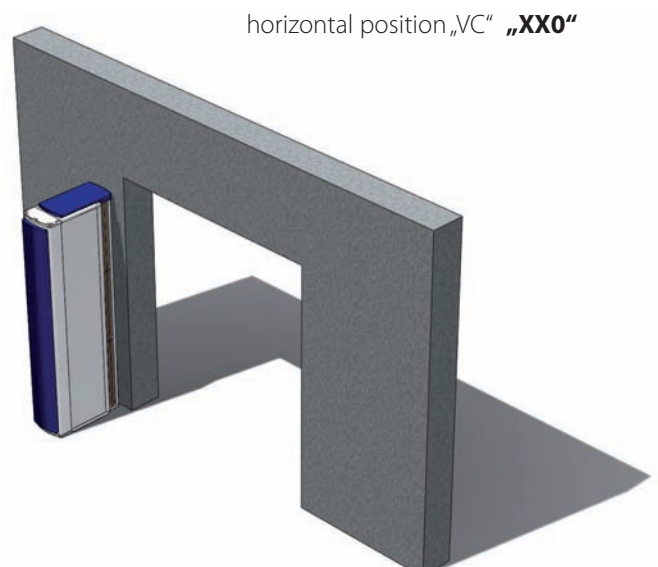
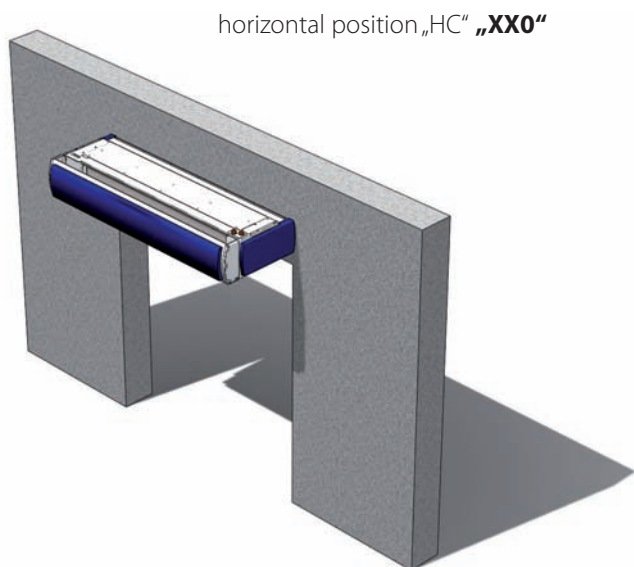
Wireless controller consists of two parts: a receiver, which has to be installed inside of the air curtain and a remote switch to turn the unit on and off.

Connection and Position

Connection and Position

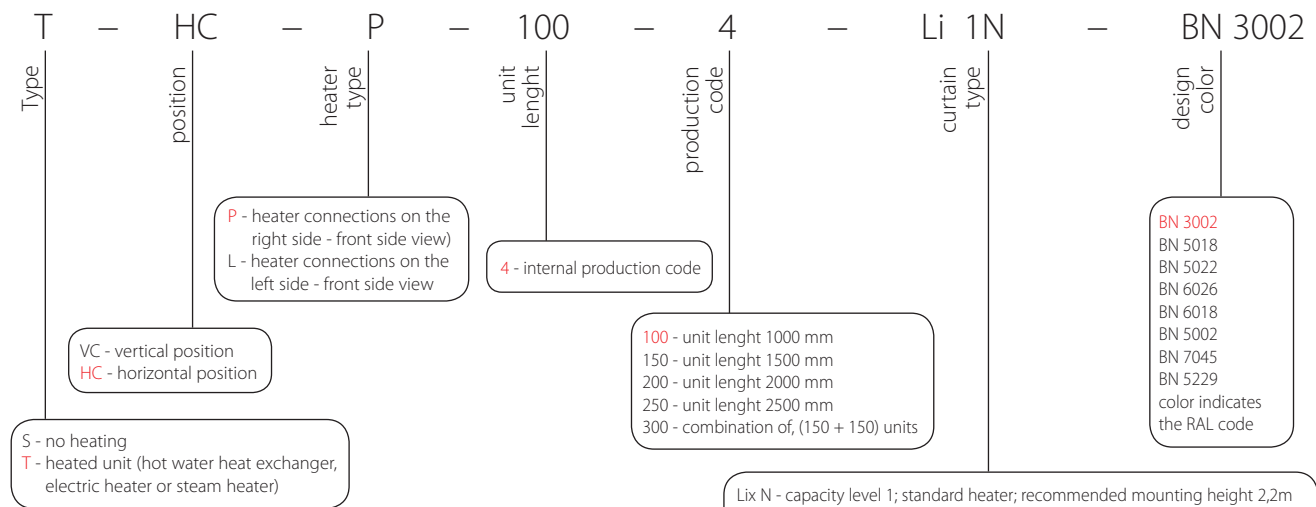


Air curtain position Li





Order Code:



- Lix N - capacity level 1; standard heater; recommended mounting height 2,2m
- Li0 N - capacity level 2; standard heater; recommended mounting height 2,5m
- Li1 N** - capacity level 3; standard heater; recommended mounting height 2,8m
- Li2 N - capacity level 5; standard heater; recommended mounting height 3,5m
- Lix NN - capacity level 1; heater for low-temperature gradients; recommended mounting height 2,2m
- Li0 NN - capacity level 2; heater for low-temperature gradients; recommended mounting height 2,5m
- Li1 NN - capacity level 3; heater for low-temperature gradients; recommended mounting height 2,8m
- Li2 NN - capacity level 4; heater for low-temperature gradients; recommended mounting height 3,5m
- Lix E - capacity level 1; electric heater; recommended mounting height 2,2m
- Li0 E - capacity level 2; electric heater; recommended mounting height 2,5m
- Li1 E - capacity level 3; electric heater; recommended mounting height 2,8m
- Li2 E - capacity level 4; electric heater; recommended mounting height 3,5m



Dealership: