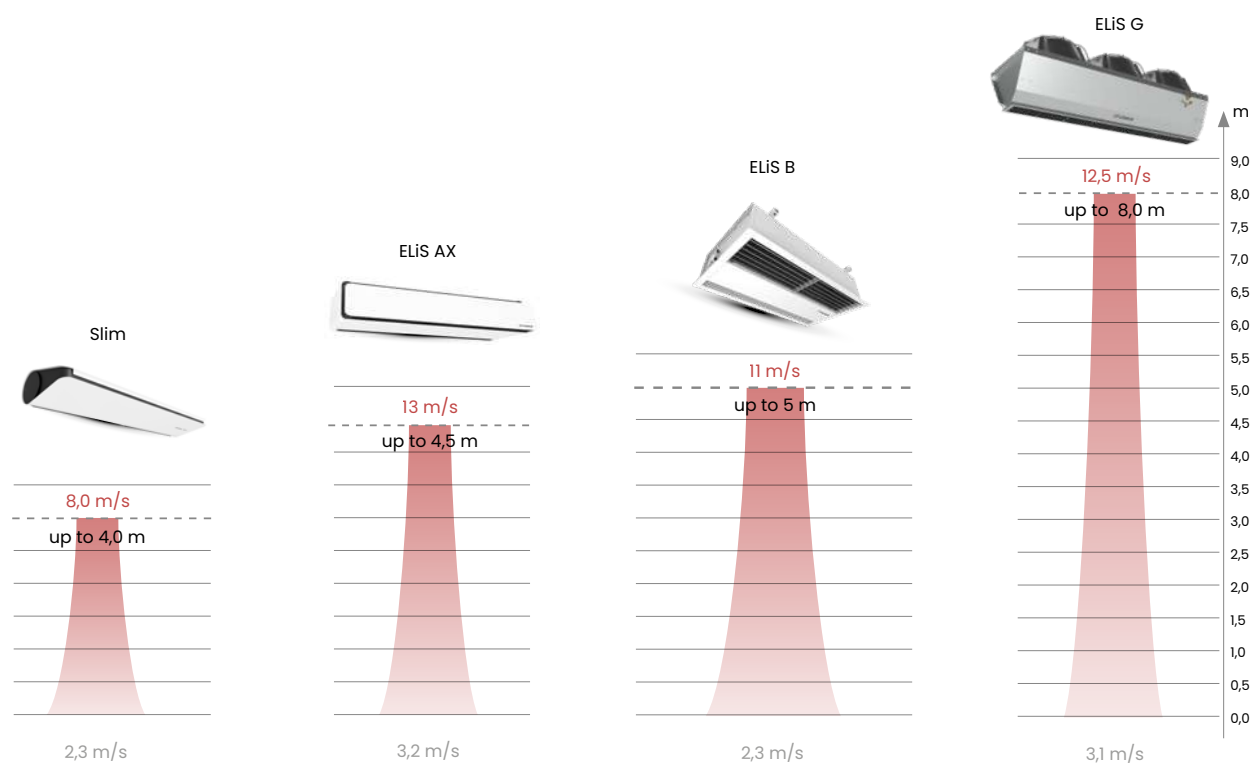


Compare ELiS solutions

Air curtains FLOWAIR is a wide range group of units adapted to various types of commercial and industrial facilities. Depending on the characteristics of the building, it is possible to select a device to individual needs.



N – without heating elements („ambient“)

W – water heat exchanger

E – electric heaters

— – speed limit at the floor level

■ – outlet air velocity

	Slim	ELiS AX	ELiS B	ELiS G
Version	W/E/N	W	W/E/N	W/E/N
Height of installation	up to 4,0 m	up to 4,5 m	up to 5 m	up to 8,0 m
Air flow	770–3050 m ³ /h	up tp 6100 m ³ /h	2000–6600 m ³ /h	4100–12800 m ³ /h
Noise	33,5–58 dB(A)	up to 65 dB(A)	55–66 dB(A)	44–69 dB(A)
BMS	via DRV Slim	as standard	as standard	via DRV ELiS

The sound pressure level measured in a room with an average sound absorption capacity, 1500 m²; directivity factor Q = 2



The new ELiS AX air curtain



Range

up to 4,5 m



Air flow

up to 6100 m³/h



Fan

Highly-efficient EC



Heating capacity

up to 81 kW



Acoustic pressure level

up to 65,0 dB(A)*



Casing

powder coated steel

Device types available

- 4 lengths: 1 m, 1.5 m, 2 m, 2.5 m
- 2 versions: air curtain with a 3-row water heat exchanger (3R) and air curtain with a 4-row water heat exchanger (4R)
- range: AX36 – maximum range 3.6 m and AX45 – maximum range 4.5 m

Dimensions



ELIS AX W-100



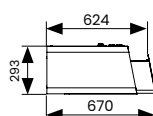
ELIS AX W-150



ELIS AX W-200



ELIS AX W-250





Application

The AX air curtains are used both in commercial buildings and in smaller industrial buildings, such as:

- shopping malls
- shops
- restaurants
- car showrooms
- public-use facilities
- small-scale production floors and warehouses

Technical data

	ELIS AX36- W3R-100	ELIS AX36- W3R-150	ELIS AX36- W3R-200	ELIS AX36- W3R-250	ELIS AX36- W4R-100	ELIS AX36- W4R-150	ELIS AX36- W4R-200	ELIS AX36- W4R-250
Power supply [V/Hz]	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Max. power consumption [kW]	0,27	0,40	0,67	0,81	0,27	0,40	0,67	0,81
Max. current consumption [A]	2,3	3,3	5,6	6,4	2,2	3,2	5,5	6,3
IP	21	21	21	21	21	21	21	21
Connection ["]	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Air flow ⁽¹⁾ [m³/h]	900 - 1800	1200-2700	2000-4300	2300-5300	800-1700	1100-2600	1900-4200	2200-5200
Acoustic pressure level ⁽²⁾ [dB(A)]	42-60	43-61	45-63	46-64	41-59	42-60	44-62	45-63
Acoustic power level ⁽³⁾ [dB(A)]	58-76	59-77	61-79	62-80	57-75	58-76	60-78	61-79
Heating capacity ⁽⁴⁾ [kW]	8,1-12,9	11,8-20,5	17,1-29,0	21,4-38,0	8,7-15,2	12,7-24,1	20,6-36,7	24,7-46,6
Max. temperature of heating water [°C]	60	60	60	60	60	60	60	60
Max. operating pressure [MPa]	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6
Max. temperature of operation [°C]	50	50	50	50	50	50	50	50
Temperature rise ⁽⁴⁾ (ΔT) [°C]	26-21	29-22	25-20	27-21	32-26	34-27	31-26	33-26
Device weight [kg]	38,5	53,3	71,7	86,8	40,0	55,6	74,8	90,3
Range ⁽¹⁾ [m]	3,6	3,6	3,6	3,6	3,6	3,6	3,6	3,6
	ELIS AX45- W3R-100	ELIS AX45- W3R-150	ELIS AX45- W3R-200	ELIS AX45- W3R-250	ELIS AX45- W4R-100	ELIS AX45- W4R-150	ELIS AX45- W4R-200	ELIS AX45- W4R-250
Power supply [V/Hz]	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Max. power consumption [kW]	0,49	0,65	0,99	1,15	0,49	0,65	0,99	1,15
Max. current consumption [A]	3,3	4,6	6,4	7,6	3,2	4,5	6,3	7,5
IP	21	21	21	21	21	21	21	21
Connection ["]	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Air flow ⁽¹⁾ [m³/h]	1100-2500	1500-3500	2200-5000	2400-6100	1000-2400	1400-3400	2100-4900	2300-6000
Acoustic pressure level ⁽²⁾ [dB(A)]	43-61	44-62	45-64	46-65	42-60	43-61	44-63	45-64
Acoustic power level ⁽³⁾ [dB(A)]	59-77	60-78	61-80	62-81	58-76	59-77	60-79	61-80
Heating capacity ⁽⁴⁾ [kW]	9,3-15,7	13,9-24,1	18,4-31,8	22,1-41,4	10,3-19,1	15,3-28,9	22,2-40,6	25,6-51,3
Max. temperature of heating water [°C]	60	60	60	60	60	60	60	60
Max. operating pressure [MPa]	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6
Max. temperature of operation [°C]	50	50	50	50	50	50	50	50
Temperature rise ⁽⁴⁾ (ΔT) [°C]	25-18	27-20	24-19	27-20	30-23	32-25	31-24	33-25
Device weight [kg]	40,8	55,5	73,7	88,8	42,3	57,8	76,8	92,3
Range ⁽¹⁾ [m]	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5

⁽¹⁾ In accordance with ISO 27327-1, air flow is given for fan speeds between 25% and 100%.

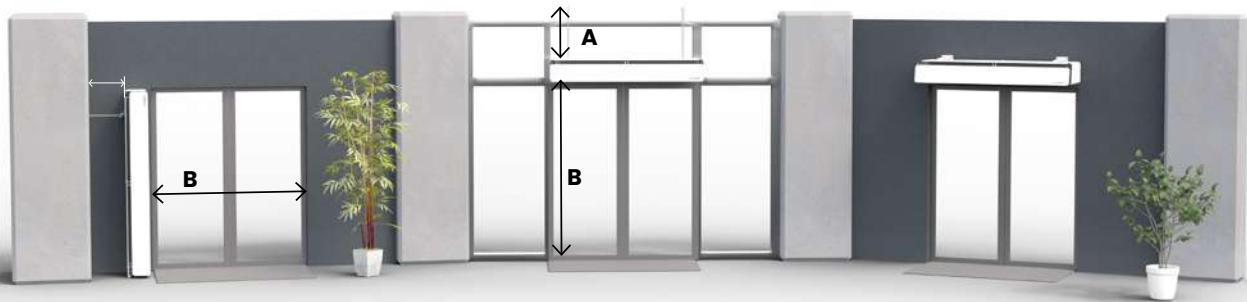
⁽²⁾ Acoustic pressure level is given for a 1500 m³ room with an average sound absorption capacity, directivity factor Q=2, at a distance of 5 m from the curtain

⁽³⁾ In accordance with ISO 27327-2, acoustic power level is given for fan speeds between 25% and 100%

⁽⁴⁾ The range of powers and temperatures is given for the following parameters: fan speed 25%, temperature of the heating medium 60/40°C, temperature of air at the inlet to the device 18°C - fan speed 100%, temperature of the heating medium 60/40°C, temperature of air at the inlet to the device 18°C.

Installation

ELiS AX



- A – min. 10 cm
- B – max. 3,6 m (ELiS AX36), max. 4,5 m (ELiS AX45)

Installation elements

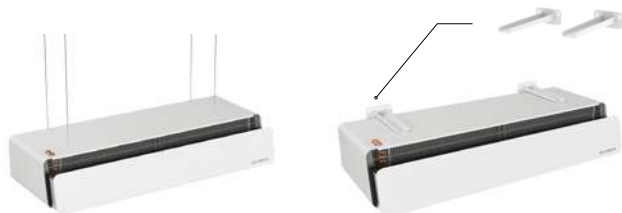
Installation brackets enable vertical mounting

Brackets for vertical mounting. Air curtains may not be mounted vertically on top of each other. Available in white.



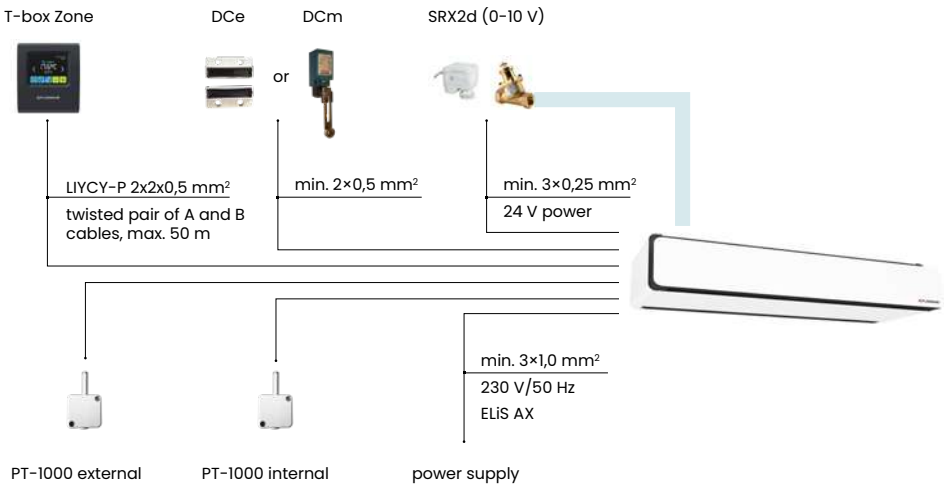
Consoles and threaded rods enable horizontal mounting

Consoles enable horizontal mounting (air curtains with a length of up to 2 m are mounted using two consoles, while curtains with a length of 2.5 m are mounted using three consoles). Available in white.



Connection diagrams

ELiS AX





Intelligent control system

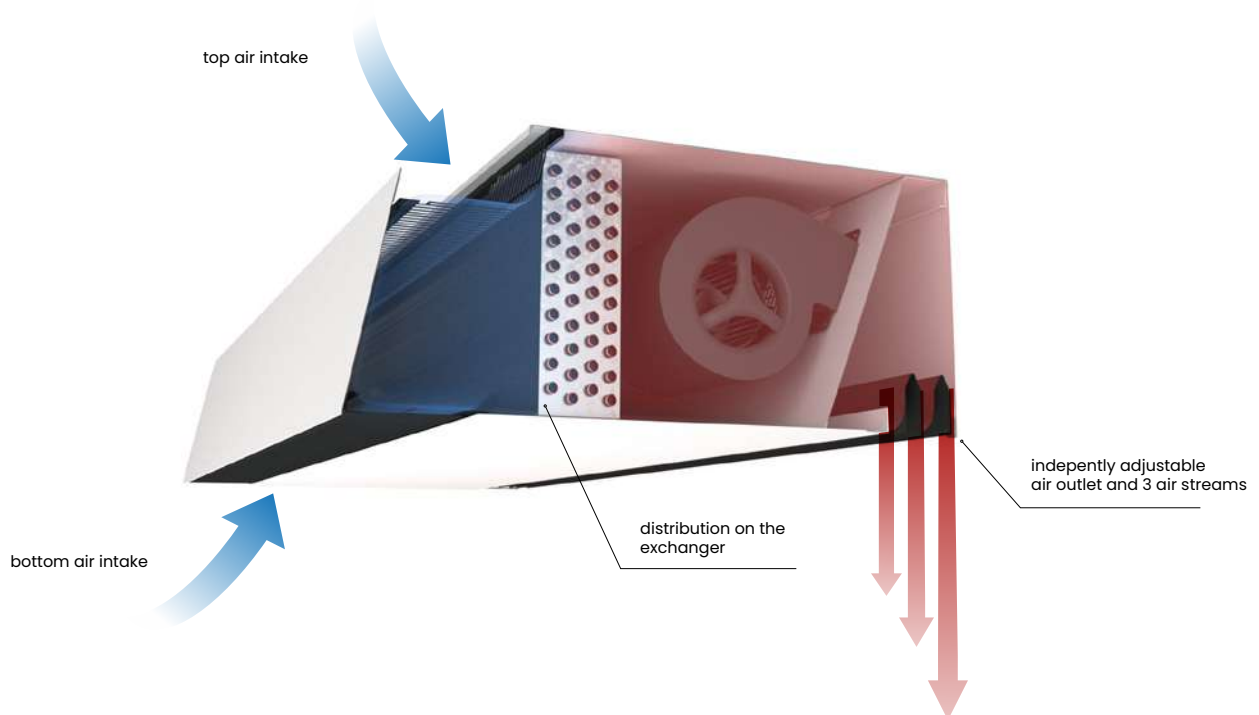
The ELiS AX air curtain has a built-in DRV ELiS EC module that enables intelligent managing operation the T-box Zone controller. It is possible to control the operation of the device using two types of BMS:

- simple control signals: start-stop-failure
- control automation with output to the BMS system (Modbus RTU) or SYSTEM FLOWAIR

ELiS AX device features

OPTiflow technology

The OPTiflow technology involves directing the air flowing through the curtain in the right way, thus creating an even more effective air barrier during draughts in commercial buildings. Three outlet air streams create a highly efficient barrier against external factors, such as hot and cold air, dust and airborne contaminants. Even and matched airflow throughout the entire exchanger ensures a comfortable temperature and reduced energy consumption



OPTismart technology

This technology involves advanced smart automation, which enables precise temperature adjustment. It changes the mode of operation depending on external conditions. It adjusts the air flow of the air curtain depending on the difference in temperatures and intelligently adapts the operating time of the device depending on how often the door is opened.

Air filter

The ELiS AX air curtain can be used in buildings which require installation of devices equipped with a replaceable air filter. It is equipped with a replaceable ISO Coarse 30% filter which improves the air quality, and the device is protected against the ingress of dirt and other contaminants.

EC fan

The device is equipped with silent and energy-efficient EC fans, which enable smooth adjustment of the curtain's air flow.

Heating capacities

ELiS AX

Tw1/Tw2 = 60/40°C					Tw1/Tw2 = 50/40°C					Tw1/Tw2 = 45/35°C					Tw1/Tw2 = 40/30°C				
Tp1	PT	Qw	Δpw	Tp2	Tp1	PT	Qw	Δpw	Tp2	Tp1	PT	Qw	Δpw	Tp2	Tp1	PT	Qw	Δpw	Tp2
°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C
ELiS AX36-W3R-100																			
Air flow: 100%, V = 1800 m³/h																			
0,0	21,0	915	8,7	34,0	0,0	19,2	1675	26,9	31,5	0,0	17,0	1474	21,7	27,5	0,0	14,7	1273	16,8	24,0
10,0	16,5	721	5,6	37,0	10,0	14,9	1295	16,8	34,0	10,0	12,6	1095	12,6	30,5	10,0	10,3	893	8,8	26,5
20,0	11,9	520	3,1	39,5	20,0	10,4	909	8,8	37,0	20,0	8,1	706	5,6	33,0	20,0	5,7	497	3,0	29,5
ELiS AX36-W3R-150																			
Air flow: 100%, V = 2700 m³/h																			
0,0	32,8	1432	25,1	35,5	0,0	29,7	2583	75,0	32,0	0,0	26,2	2281	60,8	28,5	0,0	22,8	1980	47,8	24,5
10,0	26,1	1137	16,5	38,0	10,0	23,1	2008	47,3	35,0	10,0	19,7	1708	35,8	31,5	10,0	16,2	1406	25,6	27,5
20,0	19,1	835	9,4	40,5	20,0	16,4	1424	25,3	37,5	20,0	12,9	1121	16,6	34,0	20,0	9,4	812	9,4	30
ELiS AX36-W3R-200																			
Air flow: 100%, V = 4300 m³/h																			
0,0	49	2136	3,8	33,5	0,0	45,7	3983	12,4	31,0	0,0	40,1	3489	9,8	27,5	0,0	34,5	2992	7,5	23,5
10,0	38	1659	2,4	36,0	10,0	35,1	3059	7,6	34,0	10,0	29,5	2565	5,5	30,0	10,0	23,8	2061	3,7	26,0
20,0	26,7	1163	1,2	38,0	20,0	24,3	2116	3,8	36,5	20,0	18,5	1611	2,3	32,5	20,0	12,3	1070	1,1	28,5
ELiS AX36-W3R-250																			
Air flow: 100%, V = 5300 m³/h																			
0,0	62,6	2732	6,8	34,5	0,0	57,7	5026	21,5	32,0	0,0	50,8	4417	17,2	28,0	0,0	43,9	3806	13,2	24,0
10,0	49,1	2142	4,3	37,0	10,0	44,5	3877	13,3	34,5	10,0	37,6	3270	9,8	31,0	10,0	30,6	2655	6,8	27,0
20,0	35,1	1532	2,3	39,5	20,0	31,1	2709	6,8	37,0	20,0	24,1	2093	4,3	33,5	20,0	16,7	1450	2,2	29
ELiS AX36-W4R-100																			
Air flow: 100%, V = 1700 m³/h																			
0,0	24,1	1051	14,2	41,5	0,0	21,6	1884	41,9	37,0	0,0	19,2	1666	34,1	33,0	0,0	16,7	1448	26,9	28,5
10,0	19,2	836	9,4	43,0	10,0	16,8	1466	26,5	39,0	10,0	14,4	1249	20,2	34,5	10,0	11,9	1031	14,5	30,5
20,0	14,1	616	5,4	44,5	20,0	12,0	1044	14,3	40,5	20,0	9,5	824	9,5	36,5	20,0	6,9	597	5,4	32
ELiS AX36-W4R-150																			
Air flow: 100%, V = 2600 m³/h																			
0,0	37,8	1648	41,2	42,5	0,0	33,6	2926	119,1	38,0	0,0	29,8	2594	97,4	33,5	0,0	26,1	2262	77,5	29,5
10,0	30,2	1319	27,5	44,0	10,0	26,2	2285	76	39,5	10,0	22,5	1955	58,3	35,5	10,0	18,7	1623	42,4	31,0
20,0	22,6	984	16,2	45,5	20,0	18,8	1638	41,5	41,0	20,0	15,0	1304	28,0	37,0	20,0	11,1	963	16,5	32,5
ELiS AX36-W4R-200																			
Air flow: 100%, V = 4200 m³/h																			
0,0	58,4	2546	20	40,5	0,0	52,5	4569	60,1	36,5	0,0	46,5	4039	48,5	32,5	0,0	40,5	3510	38,0	28,0
10,0	46,4	2024	13,1	42,5	10,0	40,8	3554	37,7	38,5	10,0	34,8	3027	28,4	34,5	10,0	28,8	2497	20,2	30,0
20,0	34,2	1491	7,4	44,0	20,0	29,0	2528	20,1	40,0	20,0	22,9	1994	13,1	36,0	20,0	16,7	1446	7,4	31,5
ELiS AX36-W4R-250																			
Air flow: 100%, V = 5200 m³/h																			
0,0	73,6	3211	35	41,5	0,0	65,8	5728	103,7	37,0	0,0	58,3	5072	84,1	33,0	0,0	50,9	4416	66,2	28,5
10,0	58,7	2562	23,1	43,0	10,0	51,3	4465	65,4	39,0	10,0	43,9	3813	49,6	34,5	10,0	36,4	3157	35,7	30,5
20,0	43,6	1901	13,3	44,5	20,0	36,6	3190	35,2	40,5	20,0	29,1	2530	23,3	36,5	20,0	21,4	1855	13,4	32

Tw1/Tw2 = 60/40°C					Tw1/Tw2 = 50/40°C					Tw1/Tw2 = 45/35°C					Tw1/Tw2 = 40/30°C				
Tp1	PT	Qw	Δpw	Tp2	Tp1	PT	Qw	Δpw	Tp2	Tp1	PT	Qw	Δpw	Tp2	Tp1	PT	Qw	Δpw	Tp2
°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C	°C	kW	l/h	kPa	°C
ELiS AX45-W3R-100																			
Air flow: 100%, V = 2500 m³/h																			
0,0	25,7	1123	12,7	30,0	0,0	23,8	2068	39,7	28,0	0,0	20,9	1818	31,8	24,5	0,0	18,1	1569	24,7	21,0
10,0	20,2	883	8,2	33,5	10,0	18,4	1598	24,7	31,5	10,0	15,5	1348	18,4	28,0	10,0	12,6	1097	12,8	25,0
20,0	14,5	635	4,5	37,0	20,0	12,8	1117	12,8	35,0	20,0	10,0	865	8,2	31,5	20,0	7,0	608	4,4	28,0
ELiS AX45-W3R-150																			
Air flow: 100%, V = 3500 m³/h																			
0,0	38,7	1688	33,9	32,5	0,0	35,1	3060	102,2	29,5	0,0	31,1	2701	82,8	26,0	0,0	27,0	2342	65,0	22,5
10,0	30,7	1339	22,2	35,5	10,0	27,3	2377	64,4	33,0	10,0	23,2	2019	48,6	29,5	10,0	19,1	1659	34,6	26,0
20,0	22,5	980	12,6	39,0	20,0	19,3	1680	34,2	36,0	20,0	15,2	1320	22,4	32,5	20,0	11,0	953	12,6	29,0
ELiS AX45-W3R-200																			
Air flow: 100%, V = 5000 m³/h																			
0,0	53,8	2349	4,6	31,5	0,0	50,5	4394	14,9	29,5	0,0	44,3	3847	11,8	26,0	0,0	38,0	3297	9,0	22,0
10,0	41,8	1823	2,8	34,5	10,0	38,7	3371	9,1	32,5	10,0	32,5	2824	6,6	29,0	10,0	26,1	2267	4,5	25,5
20,0	29,3	1278	1,5	37,0	20,0	26,7	2328	4,5	35,5	20,0	20,4	1770	2,8	32,0	20,0	13,6	1180	1,3	28,0
ELiS AX45-W3R-250																			
Air flow: 100%, V = 6100 m³/h																			
0,0	68,5	2987	8,1	33,0	0,0	63,3	5512	25,6	30,5	0,0	55,7	4841	20,4	26,5	0,0	48,1	4169	15,6	23,0
10,0	53,8	2339	5,1	35,5	10,0	48,8	4249	15,7	33,5	10,0	41,2	3582	11,6	30,0	10,0	33,5	2905	8,0	26,0
20,0	38,3	1672	2,7	38,5	20,0	34,0	2965	8,1	36,5	20,0	26,3	2287	5,1	32,5	20,0	18,3	1584	2,6	29,0
ELiS AX45-W4R-100																			
Air flow: 100%, V = 2400 m³/h																			
0,0	30,6	1334	21,9	37,5	0,0	27,7	2408	65,7	33,5	0,0	24,5	2126	53,2	30,0	0,0	21,3	1844	41,8	26,0
10,0	24,2	1057	14,4	39,5	10,0	21,5	1870	41,4	36,0	10,0	18,3	1590	31,3	32,5	10,0	15,1	1307	22,3	28,5
20,0	17,8	775	8,2	41,5	20,0	15,2	1325	22,1	38,5	20,0	12,0	1041	14,5	34,5	20,0	8,7	751	8,1	30,5
ELiS AX45-W4R-150																			
Air flow: 100%, V = 3400 m³/h																			
0,0	45,6	1989	58	39,0	0,0	40,8	3551	169,5	35,0	0,0	36,2	3144	138,3	31,0	0,0	31,6	2738	109,6	27,0
10,0	36,4	1588	38,5	41,5	10,0	31,8	2769	107,7	37,5	10,0	27,2	2365	82,4	33,5	10,0	22,6	1959	59,7	29,5
20,0	27,0	1178	22,4	43,0	20,0	22,7	1977	58,4	39,5	20,0	18,1	1569	39,1	35,5	20,0	13,3	1154	22,8	31,5
ELiS AX45-W4R-200																			
Air flow: 100%, V = 4900 m³/h																			
0,0	64,9	2832	24,4	39,0	0,0	58,6	5099	73,7	35,0	0,0	51,8	4505	59,4	31,0	0,0	45,1	3911	46,4	27,0
10,0	51,5	2248	15,9	41,0	10,0	45,5	3963	46,1	37,0	10,0	38,8	3372	34,7	33,0	10,0	32,0	2777	24,6	29,0
20,0	37,9	1651	9,0	42,5	20,0	32,3	2812	24,4	39,5	20,0	25,5	2215	15,9	35,0	20,0	18,5	1603	8,9	31,0
ELiS AX45-W4R-250																			
Air flow: 100%, V = 6000 m³/h																			
0,0	81,3	3547	42,1	39,5	0,0	72,9	6348	125,4	35,5	0,0	64,6	5616	101,5	31,5	0,0	56,3	4886	79,8	27,5
10,0	64,8	2826	27,7	41,5	10,0	56,8	4944	79	37,5	10,0	48,5	4217	59,8	33,5	10,0	40,2	3488	42,8	29,5
20,0	47,9	2091	15,9	43,5	20,0	40,5	3524	42,3	39,5	20,0	32,1	2790	27,9	35,5	20,0	23,5	2041	16,0	31,5

V – Air flow
 PT – Heat capacity
 Tp1 – Air temperature at the inlet to the device
 Tp2 – Air temperature at the outlet of the device
 Tw1 – Heating medium temperature at the inlet to the heat exchanger
 Tw2 – Heating medium temperature at the return from the heat exchanger
 Qw – Heating medium flow rate in the heat exchanger
 Δpw – Pressure drop in the heat exchanger



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