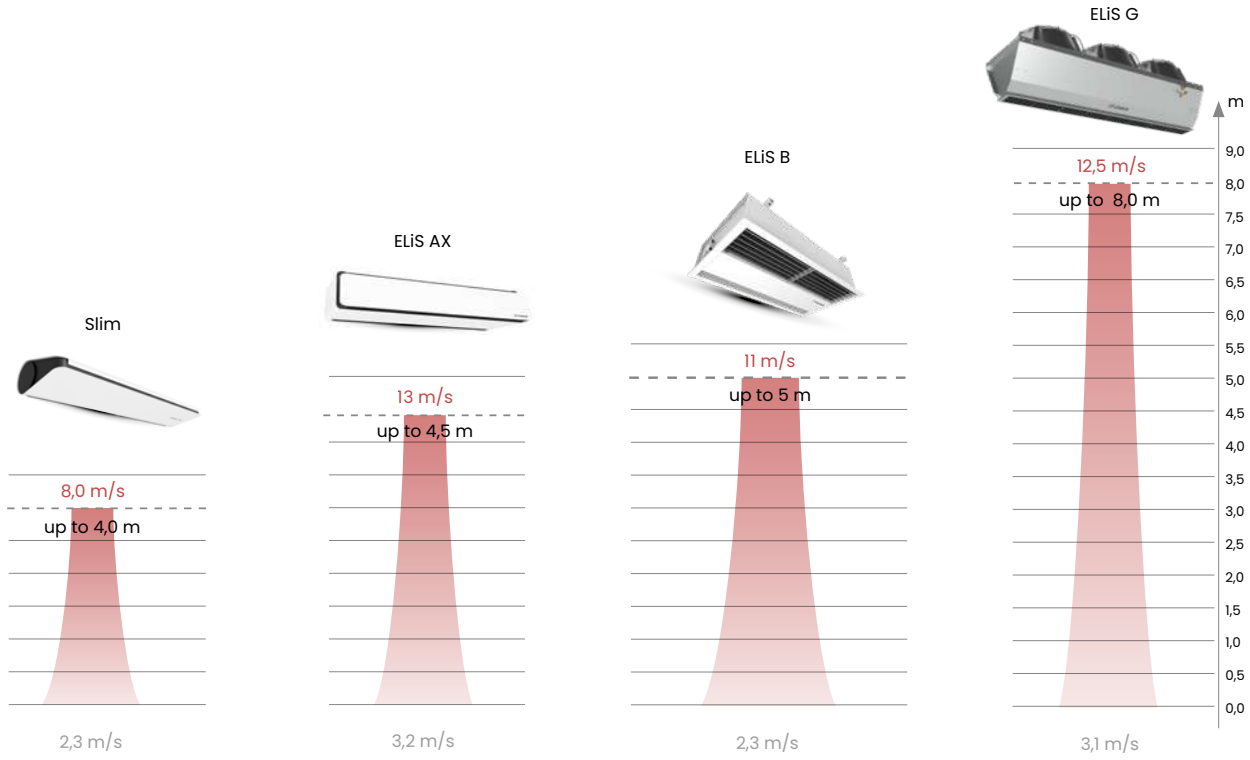
Compare ELiS solutions

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 m³/h	up tp 6100 m³/h	2000–6600 m³/h	4100–12800 m³/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 m³; directivity factor Q = 2

Air curtains ELiS B

Range
5 m

Air flow
2000 - 6600 m³/h

Weight
31,7 - 53,2 kg

Heating capacity
0,9 - 59,0 kW

Color
White

Casing
Steel, plastic, aluminium

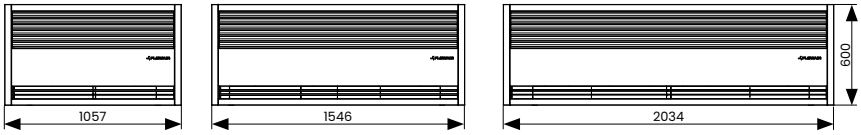
Device types available

- 3 lengths - 1 m; 1,5 m or 2 m
- 3 versions: W – water heat exchanger (1- or 2-rows), N – without heating elements („ambient"), E – electric heaters

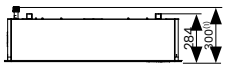
Application

ELiS B air curtains are dedicated for shops, restaurants, exhibition rooms. Units are designed for installation in the ceilings. Advantage is the possibility to install in the existing ceiling without cutting additional holes.

Dimensions



B-N|W|E-100 B-N|W|E-150 B-N|W|E-200



Technical data

	ELiS B-W-100	ELiS B-W-100 2R	ELiS B-N-100	ELiS B-E-100	ELiS B-W-150	ELiS B-W-150 2R	ELiS B-N-150	ELiS B-E-150	ELiS B-W-200	ELiS B-W-200 2R	ELiS B-N-200	ELiS B-E-200
Power supply [V/Hz]	230 / 50	230 / 50	230 / 50	3 x 400 / 50	230 / 50	230 / 50	230 / 50	3 x 400 / 50	230 / 50	230 / 50	230 / 50	3 x 400 / 50
Max. power consumption [kW]	0,34	0,34	0,42	7,5	0,36	0,36	0,42	11,5	0,38	0,38	0,49	15,5
Max. current consumption [A]	1,5	1,5	1,9	11	1,6	1,6	2	16,6	1,7	1,7	2,2	22,4
IP	21	21	21	21	21	21	21	21	21	21	21	21
Connection [“]	1/2	1/2	–	–	1/2	1/2	–	–	1/2	1/2	–	–
Air flow(1) [m³/h]	2200–2600	2000–2400	2300–3500	2200–2600	3200–4000	3000–3800	3200–4800	3200–4000	4000–5200	3800–4900	3600–6600	4000–5200
Acoustic pressure level(2) [dB(A)]	55–58	55–57	61–65	55–58	57–62	56–60	58–65	57–62	58–63	56–61	59–66	58–63
Acoustic power level(3) [dB(A)]	70–73	70–72	76–80	70–73	72–77	71–75	73–80	72–77	73–78	71–76	74–81	73–78
Heating capacity(4) [kW]	0,9–13,8	3,5–26,7	–	7,1–7,5	2,6–23,6	6,9–44,6	–	11,0–11,5	4,4–31,8	9,5–59,0	–	14,9–15,5
Max. water temperature [°C]	95	95	–	–	95	95	–	–	95	95	–	–
Max. operating pressure [MPa]	1,6	1,6	–	–	1,6	1,6	–	–	1,6	1,6	–	–
Curtain’s air temperature rise(4) (ΔT) [°C]	1–16	4–33	–	11–12	2–18	5–35	–	12–13	3–18	6–36	–	13–14
Unit weight [kg]	32,3	33,7	31,7	34,5	41,2	43,7	38,9	42,4	50	53,2	47,2	53,2
Range(1) [m]	5	5	5	5	5	5	5	5	5	5	5	5

(1) according to ISO 27327-1

(2) the sound pressure level measured in a room with an average sound absorption capacity, 1500 m³; direction factor Q = 2

(3) sound power level according to ISO 27327-2

(4) B-W power and temperature range specified for the parameters: fan speed III, heating medium temperature 40/30°C air temperature at the inlet to the device 20°C - fan speed III, heating medium temperature 90/70°C air temperature at the inlet to the device 0°C; B-E power range for operation at fan speed I - fan speed III

Installation ELiS B

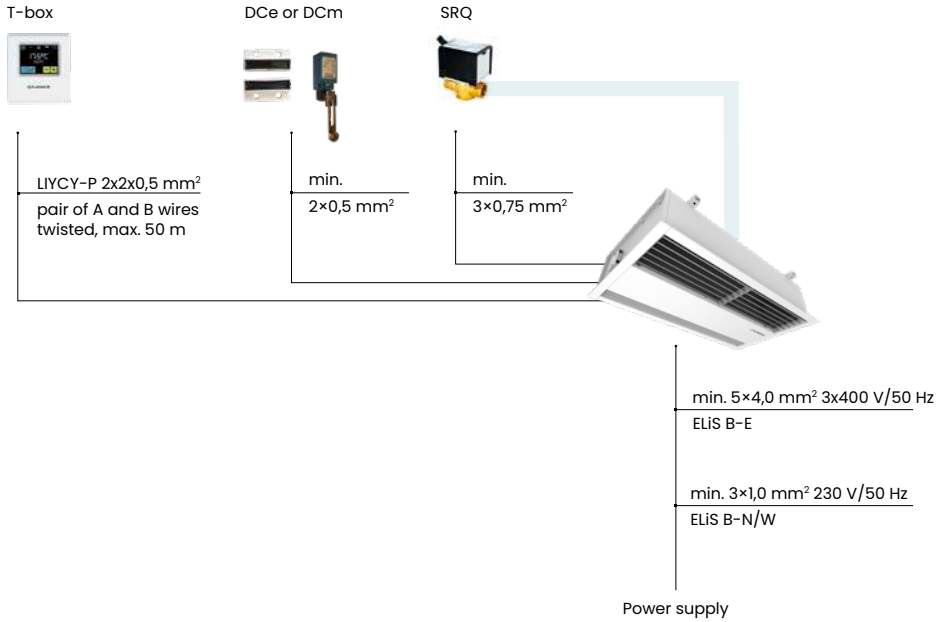
Installation elements

Brackets

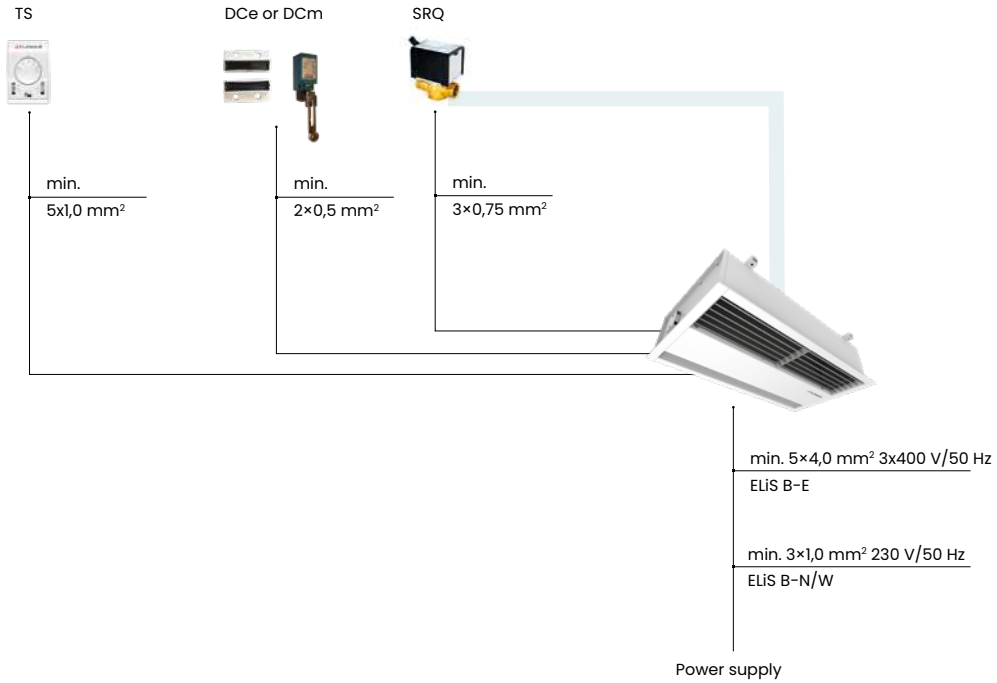
Brackets with mounting holes for installation using threated rods are included.

Connection diagrams ELiS B

T-box controller



TS controller



Heating capacities
ELiS B

Tw1/Tw2 = 90/70°C					Tw1/Tw2 = 80/60°C					Tw1/Tw2 = 70/50°C					Tw1/Tw2 = 60/40°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 B-W-100																			
step III : V = 2600 m³/h																			
0,0	13,8	609	2,3	15,5	0,0	11,5	507	1,7	13,0	0,0	9,2	404	1,2	10,5	0,0	6,8	295	0,7	7,5
10,0	11,9	524	1,7	24,5	10,0	9	395	1,1	21,5	10,0	7,2	316	0,7	18,0	10,0	4,6	198	0,3	15,0
20,0	9,9	438	1,2	31,0	20,0	7,6	334	0,8	28,5	20,0	5,1	225	0,4	25,0	20,0	1,7	74	0,1	22,0
ELiS B-W-150																			
step III : V = 4000 m³/h																			
0,0	23,5	1039	7,4	17,5	0,0	20,0	881	5,6	15,0	0,0	16,5	723	4,0	12,5	0,0	13,0	563	2,7	9,5
10,0	20,5	904	5,7	25,0	10,0	17,0	745	4,1	22,5	10,0	13,4	585	2,8	20,0	10,0	9,7	423	1,6	17,0
20,0	17,4	767	4,2	32,5	20,0	13,8	607	2,8	30,0	20,0	10,2	445	1,7	27,5	20,0	6,3	276	0,7	24,5
ELiS B-W-200																			
step III : V = 5200 m³/h																			
0,0	31,8	1402	14,7	18,0	0,0	27,7	1195	11,3	15,5	0,0	22,5	990	8,3	13,0	0,0	18,0	784	5,6	10,5
10,0	27,7	1223	11,5	25,7	10,0	23,1	1016	8,4	22,5	10,0	18,5	809	5,7	20,5	10,0	13,8	601	3,5	18,0
20,0	23,6	1043	8,8	33,0	20,0	19,0	834	5,9	30,5	20,0	14,3	625	3,6	28,0	20,0	9,5	412	1,8	25,0
ELiS B-W-100 2R																			
step III : V = 2400 m³/h																			
0,0	24,5	1080	1,82	30	0,0	20,5	900	1,34	27,0	0,0	11,8	716	0,91	20	0,0	12	521	0,53	15
10,0	21	928	1,38	36	10,0	17	747	0,95	31	10,0	12,8	560	0,58	26	10,0	7,8	341	0,25	20
20,0	17,6	776	0,99	41	20,0	13,5	592	0,63	36	20,0	9	395	0,31	31	20,0	3,3	142	0,05	24
ELiS B-W-150 2R																			
step III : V = 3800 m³/h																			
0,0	42,2	1863	6,1	33	0,0	36	1580	4,6	28	0,0	29,6	1296	3,3	23	0,0	23,2	1010	2,2	18
10,0	39,4	1618	4,7	38,5	10,0	30,4	1334	3,4	33,5	10,0	24	1049	2,3	28,5	10,0	17,4	758	1,3	23,5
20,0	31,1	1373	3,5	44	20,0	24,7	1086	2,3	39	20,0	18,2	797	1,4	34	20,0	11,3	492	0,6	28,5
ELiS B-W-200 2R																			
step III : V = 4900 m³/h																			
0,0	57,2	2524	12,2	34	0,0	49	2153	9,37	29	0,0	40,8	1783	6,85	24	0,0	32,4	1413	4,64	19
10,0	49,9	2200	9,49	39	10,0	41,6	1828	6,95	34	10,0	33,3	1456	4,74	30	10,0	24,8	1082	2,87	25
20,0	42,5	1876	7,09	45	20,0	34,2	1501	4,85	40	20,0	25,7	1125	2,97	35	20,0	17	741	1,46	30

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

CLIMATE DESIGN D.O.O. Javorska 6, 11226 Beograd,
Tel:+38162290789, +38162290599
E-mail: veleprodaja@climatedesign.rs, www.climatedesign.rs