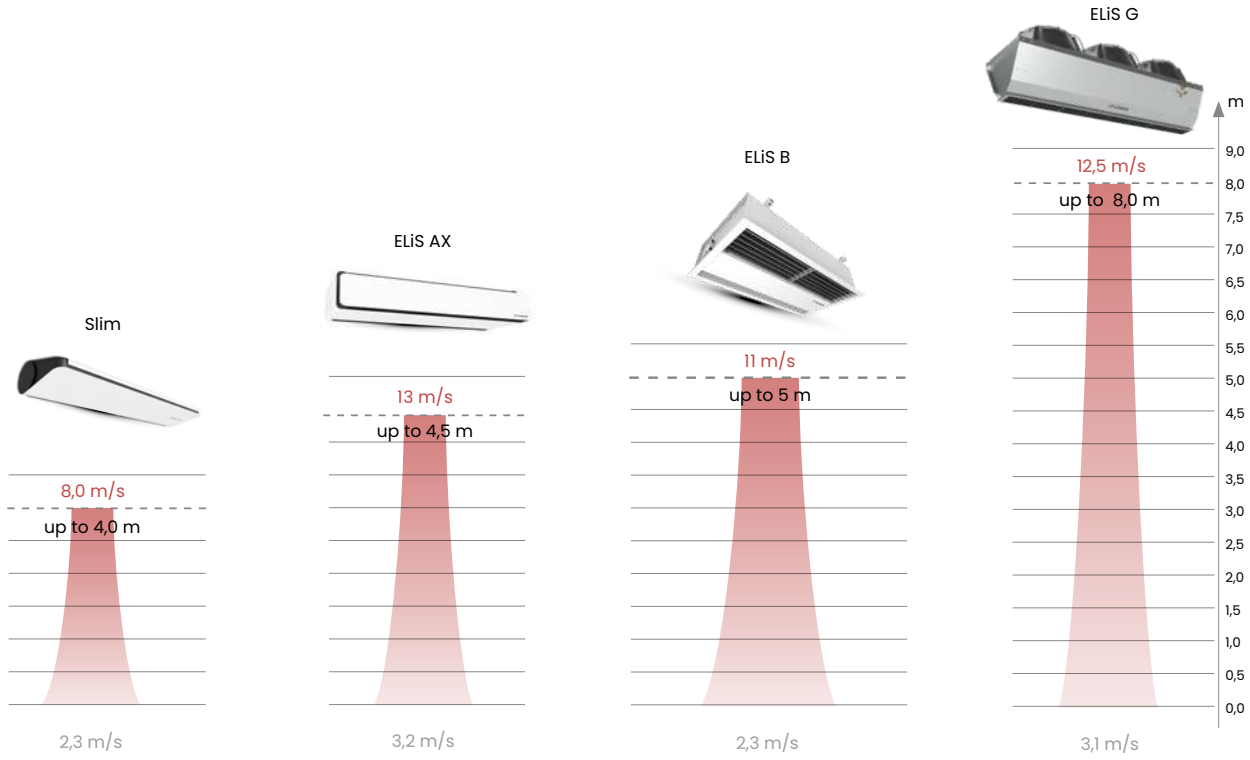
Compare ELiS solutions

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 G

Range
8 m

Air flow
2400 - 12800 m³/h

Weight
43,0 - 77,9 kg

Heating capacity
7,8 - 71,9 kW

Color
Grey, silver

Casing
Galvanized steel

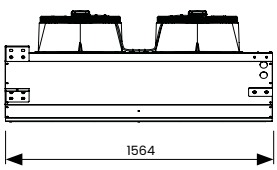
Device types available

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

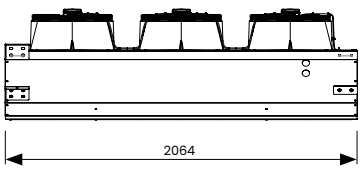
Application

Warehouses, halls, logistics centers. ELiS G devices are intended for horizontal and vertical installation. They create an air barrier that reduces the various losses associated with the exchange of air between the room and the outside area.

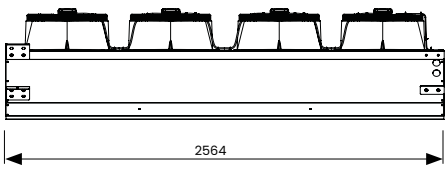
Dimensions



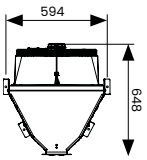
G-150



G-200



G-250



Technical data

	G-E-150	G-N-150	G-W-150	G-W-150 2R	G-E-200	G-N-200	G-W-200	G-W-200 2R	G-E-250	G-N-250	G-W-250
Power supply [V/HZ]	3x400 / 50	230 / 50	230 / 50	230 / 50	3x400 / 50	230 / 50	230 / 50	230 / 50	3x400 / 50	230 / 50	230 / 50
Max. power consumption [kW](1)	13,5 + 0,68	0,67	0,67	0,67	20,5 + 1,05	1,05	1,05	1,05	24,5 + 1,4	1,4	1,4
Max. current consumption [A](1)	19,5 + 3,0	3	3	3	29,5 + 4,5	4,5	4,5	4,5	36,0 + 6,0	6	6
IP	20/F	54/F	54/F	54/F	20/F	54/F	54/F	54/F	20/F	54/F	54/F
Connection	-	-	3/4	3/4	-	-	3/4	3/4	-	-	3/4
Air flow [m^3/h](2)	2600-6300	2800-6550	2500-6200	2400-6100	3400-9400	3900-9700	3300-9100	3100-8800	4900-12400	4900-12800	4300-12000
Acoustic pressure level [dB(A)] - 5 m(3)	44-65	44-65	45-66	46-67	45-66	45-66	46-68	47-69	46-68	46-68	47-69
Acoustic pressure level [dB(A)] - 3 m(3)	45-66	45-66	46-67	47-68	46-67	46-67	47-69	48-70	47-69	47-69	48-70
Acoustic power level [dB(A)](4)	60-81	60-81	61-82	62-83	61-82	61-82	62-84	63-85	62-84	62-84	63-85
Heating capacity [kW](5)	13,5	-	7,8-27	18,7-62,9	20,5	-	8,7-30,0	21,4-71,9	24,5	-	15,0-49,6
Max. water temperature [°C]	-	-	120	120	-	-	120	120	-	-	120
Max. operating pressure [MPa]	-	-	1,6	1,6	-	-	1,6	1,6	-	-	1,6
Curtain's air temperature rise (ΔT) [°C](5)	7,0-16,0	-	4,0-13,0	9,0-30,0	7,0-18,0	-	3,0-11,0	8-27	7,5-16,5	-	4,0-12,0
Unit weight [kg]	47	43	47,4	51,8	62,2	58	62	66,4	77,9	71,5	78,3
Range [m](2)	7,5	8	7,5	7,5	7,5	8	7,5	7,5	7,5	8	7,5

(1) for G-E, the parameters of heating elements powered by 3N 400V and fans powered by 1N 230V are given, respectively

(2) in accordance with ISO 27327-1

(3) acoustic pressure level has been measured in a 1500m^3 space with a medium sound absorption coefficient, directional factor: Q=2

(4) acoustic power level according to ISO 27327-2

(5) G-W range of heating powers and temperatures specified for the parameters: III fan speed, heating medium temperature 40/30 0 °C inlet temperature 20 °C - III fan speed, heating medium temperature 110/90 °C at the device inlet 0 °C; G E power range for operation at 1N 230/50 to operation at 3N 400/50

Installation ELiS G

A – max. 8 m

B – max. 14 m

Installation elements

Brackets

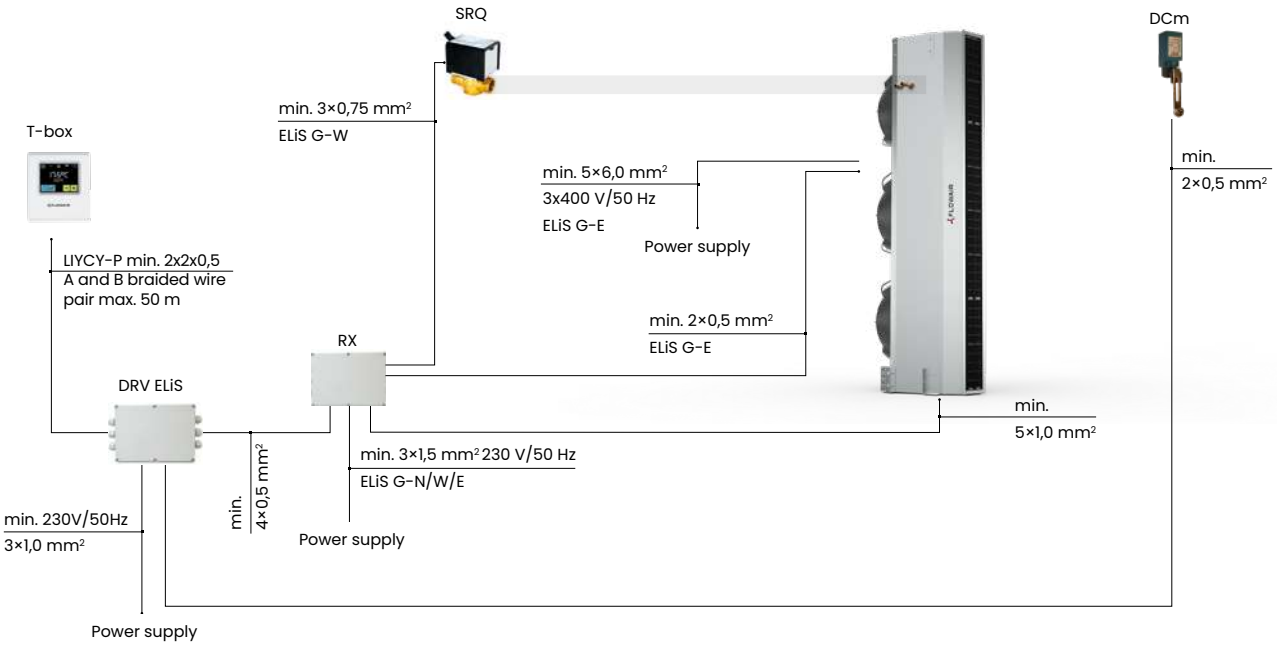
Possibility of vertical and horizontal installation using mounting brackets.

Rods

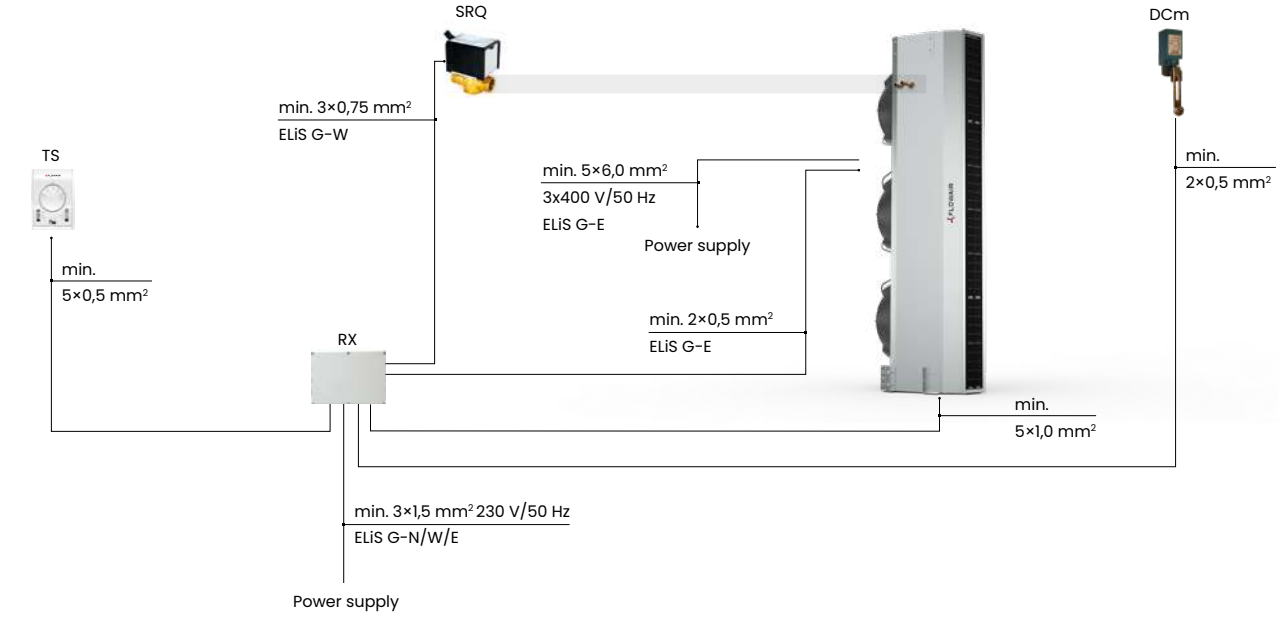
ELiS G air curtains have special mounting holes for installation using threaded rods.

Connection diagrams air curtain ELiS G

T-box controller



TS controller



Heating capacities
ELiS G

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 G-W-150																			
step III : V = 6200 m³/h																			
0,0	27	1 190	4,5	12,5	0,0	23,2	1 020	3,5	11	0,0	19,4	848	2,5	9	0,0	15,5	674	1,7	7,5
10,0	23,6	1 043	3,5	21	10,0	19,8	871	2,6	19,5	10,0	15,9	697	1,8	17,5	10,0	11,9	519	1,1	15,5
20,0	20,1	887	2,6	29,5	20,0	16,3	714	1,8	27,5	20,0	12,3	539	1,1	26	20,0	8,1	353	0,5	24
ELiS G-W-200																			
step III : V = 9100 m³/h																			
0,0	29,9	1 321	5,5	11	0,0	25,8	1 132	4,2	9,5	0,0	21,5	941	3,1	8	0,0	17,2	749	2,1	6,5
10,0	26,2	1 158	4,3	19,5	10,0	22	966	3,1	18	10,0	17,7	774	2,1	16,5	10,0	13,2	578	1,3	15
20,0	22,3	985	3,2	28	20,0	18	793	2,2	26,5	20,0	13,7	599	1,3	25	20,0	9	394	0,7	23,5
ELiS G-W-250																			
step III : V =12000 m³/h																			
0,0	49,6	2 191	18,6	12	0,0	43	1 889	14,5	10,5	0,0	36,2	1 586	10,8	9	0,0	29,4	1 284	7,6	7
10,0	43,6	1 926	14,7	20,5	10,0	36,9	1 621	11	19	10,0	30,1	1 316	7,7	17,5	10,0	23,2	1 011	4,9	15,5
20,0	37,3	1 647	11	29	20,0	30,5	1 341	7,7	27,5	20,0	23,6	1 035	5	26	20,0	16,6	724	2,7	24
ELiS G-W-150 2R																			
step III : V = 6100 m³/h																			
0,0	62,9	2776	21,2	30,0	0,0	54,4	2391	16,5	26,0	0,0	45,9	2010	12,3	22,0	0,0	37,3	1628	8,5	18,0
10,0	55,0	2427	16,5	36,5	10,0	46,5	2046	12,3	32,5	10,0	38,0	1664	8,6	28,0	10,0	29,3	1277	5,4	24,0
20,0	46,7	2063	12,2	42,5	20,0	38,3	1683	8,6	38,5	20,0	29,7	1301	5,5	34,0	20,0	20,9	912	2,9	30,0
ELiS G-W-200 2R																			
step III : V = 8800 m³/h																			
0,0	71,9	3171	27,2	27,0	0,0	62,1	2729	21,2	23,5	0,0	52,4	2293	15,6	19,5	0,0	42,5	1856	10,9	16,0
10,0	62,8	2773	21,2	33,5	10,0	53,2	2337	15,8	30,0	10,0	43,3	1897	11,0	26,5	10,0	33,4	1456	6,9	22,5
20,0	53,4	2355	15,6	40,0	20,0	43,7	1919	11	36,5	20,0	33,9	1483	7,0	32,5	20,0	23,8	1039	3,7	29,0

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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