

# AIR CURTAINS ELiS T

## Air curtains ELiS T

Range [m]	4
Heating capacity [kW]	11.1–49.3
Air flow [m <sup>3</sup> /h]	1,900–5,300
Weight [kg]	20.7–37.5
Colour	grey
Casing	steel, EPP

<sup>(1)</sup> According to ISO 27327-1

<sup>(2)</sup> For T-W at inlet/outlet water temperature 90/70°C, inlet air temperature 10°C

<sup>(3)</sup> RAL 9007



## APPLICATION

Modern shape and small size makes it suitable to install the units both in representative and industrial buildings ELiS T air curtains are designed for both horizontal mounting – directly above the door openings – and vertical mounting on the side of the door opening.


## AVAILABLE TYPES OF UNITS:

### 3 LENGTHS

1 m, 1.5 m or 2 m

### 3 VERSIONS

 water heat exchanger (1- or 2-rows)

 without heating elements - "ambient"

 electric heaters

## TECHNICAL DATA

### Air curtains ELiS T

	ELiS T-W- 100	ELiS T-W- 100 2R	ELiS T-N- 100	ELiS T-E- 100	ELiS T-W- 150	ELiS T-W- 150 2R	ELiS T-N- 150	ELiS T-E- 150	ELiS T-W- 200	ELiS T-W- 200 2R	ELiS T-N- 200	ELiS T-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]	0.38	0.38	0.39	7.5	0.4	0.4	0.42	11.5	0.44	0.44	0.46	15.5
Max. current consumption [A]	1.7	1.7	1.8	11	1.8	1.8	1.9	16.6	2.0	2.0	2.1	22.4
IP	21/F	21/F	21/F	21/F	21/F	21/F	21/F	21/F	21/F	21/F	21/F	21/F
Connection	½"	½"	-	-	½"	½"	-	-	½"	½"	-	-
Curtain air flow stream [m <sup>3</sup> /h]	2300	2100	2900	2300	3900	3700	4000	3900	5100	4900	5300	5100
Acoustic pressure level [dB(A)] <sup>(1)</sup>	60	59	63	60	61	60	64	61	62	61	65	62
Acoustic power level [dB(A)] <sup>(2)</sup>	75	74	78	75	76	75	79	76	77	76	80	77
Max. water temperature [°C]	95	95	-	-	95	95	-	-	95	95	-	-
Max. operating pressure [Bar]	16	16	-	-	16	16	-	-	16	16	-	-
Curtain's air temperature rise (ΔT) [°C] <sup>(3)</sup>	14	27	-	11	15	29	-	12	16	30	-	13
Unit weight [kg]	22.1	23.5	20.7	24.0	29.5	32.0	27.0	31.5	34.3	37.5	31.5	37.0
Range [m] <sup>(4)</sup>	4	4	4	4	4	4	4	4	4	4	4	4

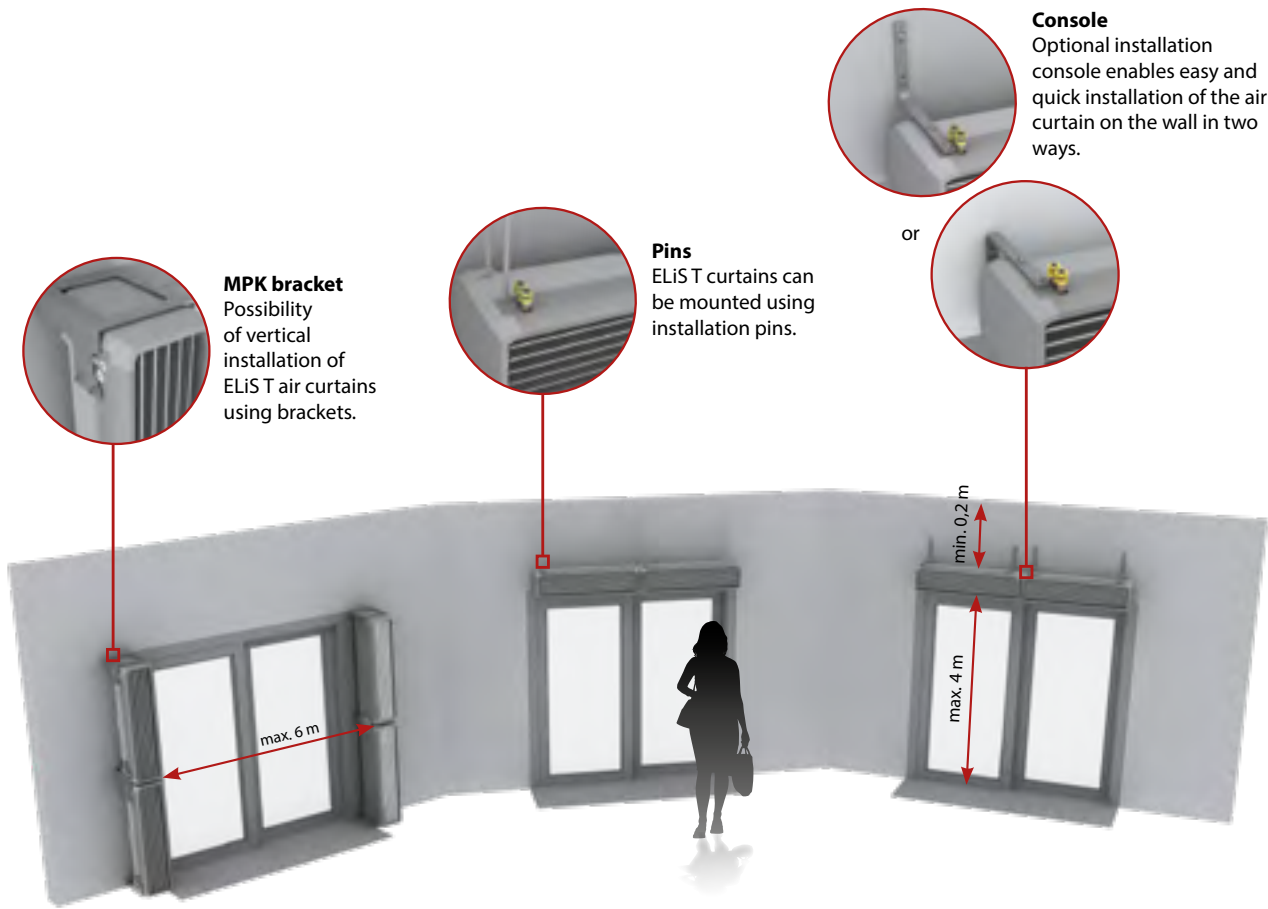
<sup>(1)</sup> Average acoustic pressure level in the room of average sound absorption, volume of 1500 m<sup>3</sup>, at a distance of 5 m from the unit

<sup>(2)</sup> Acoustic power according to ISO 27327-2

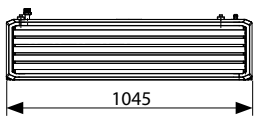
<sup>(3)</sup> For T-W at heating medium temperature 90/70°C, at air inlet to the device 10°C / for T-E at air inlet to the device 10°C

<sup>(4)</sup> According to ISO 27327-1

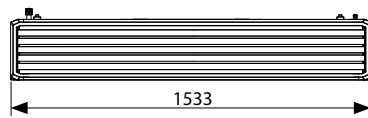
# INSTALLATION



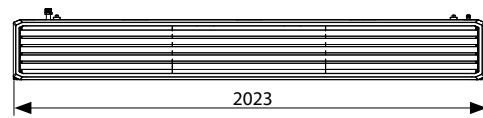
## I DIMENSIONS



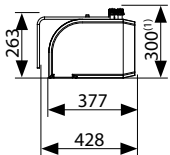
T-N/W/E-100



T-N/W/E-150



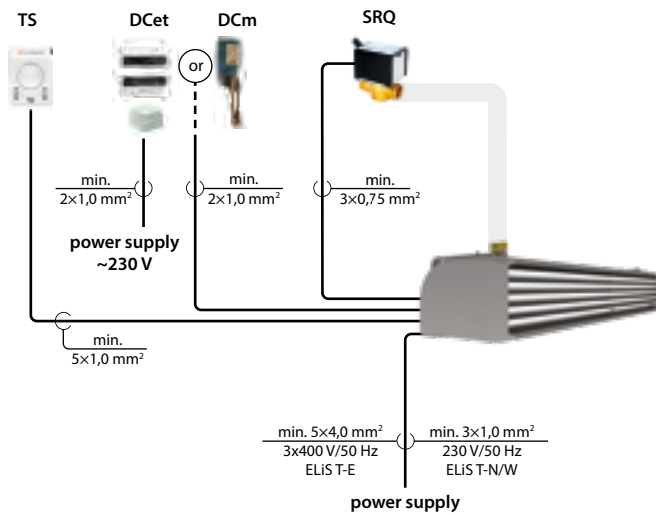
T-N/W/E-200



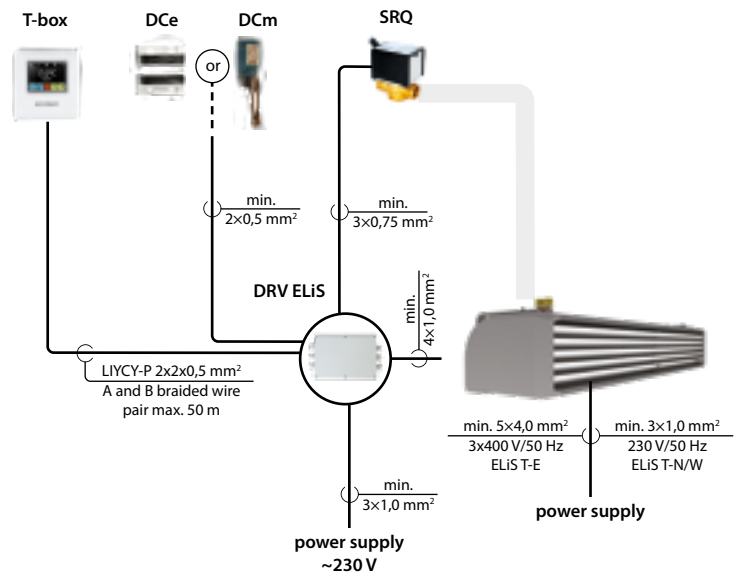
<sup>(1)</sup> The dimension refers to a curtain with an ELiS T-W exchanger.

# CONNECTION DIAGRAMS

## TS CONTROLLER



## T-box CONTROLLER



### ELEMENTS:

- **TS** – 3-step fan speed controller with thermostat
- **DCeT** – magnetic door sensor with relay box
- **DCm** – mechanical door sensor
- **SRQ** – valve with actuator

### ELEMENTS:

- **T-box** – intelligent controller with touch screen
- **DRV ELiS** – external control module
- **DCe** – magnetic door sensor
- **DCm** – mechanical door sensor
- **SRQ** – valve with actuator



## ELiS T – UNIVERSAL INSTALLATION OPTION

# HEATING CAPACITIES

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
ELiST-W-100																			
V = 2300 m³/h, III step																			
0,0	12,9	571	2	17	0,0	10,8	476	1,5	14	0,0	8,7	379	1	11	0,0	6,3	276	0,6	8
10,0	11,1	492	1,5	24,5	10,0	9	395	1,1	21,5	10,0	6,8	296	0,7	18,5	10,0	4,2	183	0,3	15
20,0	9,3	411	1,1	32	20,0	7,1	314	0,7	29	20,0	4,8	210	0,4	26	20,0	1,7	73	0,1	22
ELiST-W-150																			
V = 3900 m³/h, III step																			
0,0	23,2	1026	7,2	17,5	0,0	19,8	870	5,5	15	0,0	16,3	714	4	12	0,0	12,8	556	2,6	9
10,0	20,2	892	5,6	25	10,0	16,7	735	4	22,5	10,0	13,2	578	2,7	20	10,0	9,6	417	1,6	16,5
20,0	17,2	757	4,1	32,5	20,0	13,6	599	2,8	30	20,0	10	439	1,6	27,5	20,0	6,2	272	0,07	24
ELiST-W-200																			
V = 5100 m³/h, III step																			
0,0	31,4	1387	14,5	18	0,0	26,9	1183	11,1	15	0,0	22,4	980	8,1	12,5	0,0	17,8	776	5,5	10
10,0	27,4	1211	11,3	26	10,0	22,9	1005	8,2	23	10,0	18,3	801	5,6	20,5	10,0	13,6	595	3,4	18
20,0	23,4	1033	8,4	33	20,0	18,8	826	5,8	30,5	20,0	14,4	619	3,5	27,5	20,0	9,4	408	1,7	25
ELiST-W-100 2R																			
V = 2100 m³/h, III step																			
0,0	22,6	998	1,57	32	0,0	18,9	832	1,16	27	0,0	15,1	662	0,79	21	0,0	11	479	0,46	16
10,0	19,5	858	1,19	37	10,0	15,7	691	0,83	32	10,0	11,8	517	0,51	27	10,0	6,96	304	0,2	19
20,0	16,3	718	0,86	43	20,0	12,5	547	0,54	37	20,0	78,3	362	0,27	31	20,0	3,17	138	0,5	24
ELiST-W-150 2R																			
V = 3700 m³/h, III step																			
0,0	41,5	1833	5,9	33	0,0	35,4	1555	4,48	28	0,0	29,2	1276	3,22	23	0,0	22,8	994	2,1	18
10,0	36,1	1592	4,6	39	10,0	29,9	1313	3,29	34	10,0	23,6	1032	2,2	29	10,0	17,1	746	1,27	24
20,0	30,6	1351	3,4	44	20,0	24,3	1069	2,27	39	20,0	17,9	785	1,34	34	20,0	11,1	483	0,58	29
ELiST-W-200 2R																			
V = 4900 m³/h, III step																			
0,0	56,5	2494	11,95	34	0,0	48,4	2127	9,17	29	0,0	40,3	1762	6,7	24	0,0	32	1396	4,54	19
10,0	49,3	2174	9,28	40	10,0	41,1	1806	6,8	35	10,0	32,9	1439	4,64	30	10,0	24,5	1069	2,81	25
20,0	42	1854	6,93	45	20,0	33,7	1483	4,75	40	20,0	25,4	1111	2,91	35	20,0	16,8	732	1,43	30

V – air flow  
 PT – heating capacity  
 Tp1 – inlet air temperature

Tp2 – outlet air temperature  
 Tw1 – inlet water temperature  
 Tw2 – outlet water temperature

Qw – water flow in the heat exchanger  
 Δpw – water pressure drop in the heat exchanger