FLEXIHEAT UK LTD
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"ELIS G" - Industrial Air Curtains

GENERAL INFORMATION

- "ELiS G" Industrial air curtains - generating an air barrier or air curtain, which protects the interior from the external environment (its temperature, solids and smog etc). The units are designed for indoor use where the maximum air dustiness does not exceed 0.3 g/m^3.
- Galvanized steel casing
- 3-speed, energy saving fan as standard.
- Mounting brackets included

CONTROL SYSTEM - Automatic or Manual

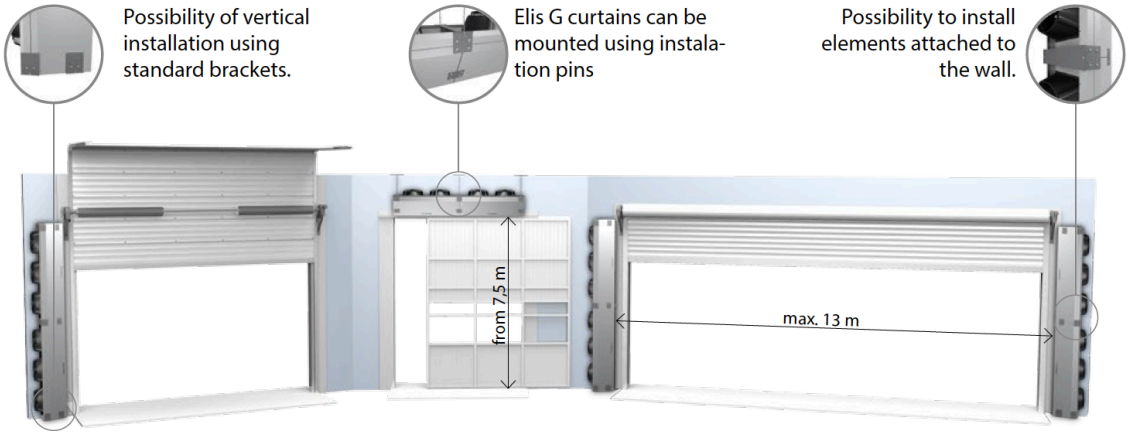
T-box + DRV ELiS + RX

- 3-speed fan regulation
- working modes: heating/ventilation
- BMS
- Delay time
- Idle speed
- integration with FLOWAIR SYSTEM

TS + RX

- 3-speed, manual fan regulation
- working modes: heating/ ventilation

INSTALLATION- Horizontal or Vertical Mounted



TECHNICAL DATA - "N" =Ambient Air , "E" =Electrical heated , "W" = Hot Water Heated (2 Versions)

	G-N-50			G-W/N/E-150/150 2R			G-W/N/E-200/200 2R		
Step	1	2	3	1	2	3	1	2	3
Fan power supply [V/Hz] |	230/50								
Fan current consumption [A]	0,6	1,2	1,4	1,2	2,4	2,8	1,8	3,6	4,2
Fan power consumption [kW]	0,13	0,25	0,34	0,24	0,48	0,69	0,37	0,72	1,0
Acoustic pressure level [dB(A)]*	44	55	64	45	56	66	46	58	68
Acoustic power level** [dB(A)]	59	70	79	60	71	81	61	73	83
Fan IP	54								

	G-E-150			G-E-200		
Heating elements power supply [V/Hz]	3x400/50			3x400/50		
Heating capacity [kW]	9,0	10,5	12,0	16,5	18,5	20,0
Current consumption [A]	13	15	17	23	26	29
Temperature rise [°C]	12	9	7	12	9	7

	G-W-150 / G-W-150 2R	G-W-200 / G-W-200 2R
Max. water temperature [°C]	130	130
Max. water pressure [MPa]	1,6	1,6
Connection ["]	$^3/_4$	$^3/_4$

	G-N-50	G-W-150	G-N-150	G-E-150	G-W-150 2R	G-W-200	G-N-200	G-E-200	G-W-200 2R
Max. Air Volume [m^3/h]	2500	6200	6500	6200	5700	8100	8600	8200	7600
Range**** [m]	7.5	7.0	7.5	7.0	7.0	7.0	7.5	7.0	7.0
Weight [kg]	19.3	47.4	43	49.8	51.8	62	58	67	66.4
Weight of unit filled with water [kg] |	-	49.7	-	-	56.4	64.3	-	-	71.0

* Acoustic pressure level has been measured 5m from the unit in a 1500m^3 space with a medium sound absorption coefficient

** Acoustic power level according to ISO 27327-2

*** G1-E-150/200 temperature increase at inlet air 10ºC

**** according to ISO 27327-1

HEATING CAPACITY - Hot Water Heated Versions

G-W-150 - - Water Heated - 1 Row Heat Exchanger

Tp1	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2
°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C
V = 4000 m³/h (1 stage)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	27,0	1190	5	19,0	23,2	1020	5	16,0	19,5	850	4	13,5	15,7	680	4	11,0
5	25,0	1100	6	22,5	21,2	930	5	20,0	17,5	770	3	17,5	13,7	600	3	14,5
10	22,9	1010	5	26,5	19,2	850	4	24,0	15,6	680	4	21,0	11,8	520	2	18,5
15	21,0	920	4	30,5	17,3	760	5	27,5	13,6	600	3	22,5	10,0	430	4	22,5
20	19,0	840	4	34,0	15,4	680	4	31,5	11,8	520	2	29,0	8,1	350	3	26,0
V = 5100 m³/h (2 stage)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	31,2	1370	7	17,0	26,8	1180	5	14,5	22,4	980	5	12,0	18,0	790	3	10,0
5	28,8	1270	6	21,0	24,5	1070	6	18,5	20,1	880	4	16,0	15,8	690	4	14,0
10	26,4	1170	5	25,0	22,2	970	5	22,5	17,9	780	3	20,0	13,6	590	3	17,5
15	24,1	1060	6	29,0	19,9	880	4	26,5	15,7	690	4	24,0	11,4	500	2	21,5
20	21,9	960	5	33,0	17,7	780	3	30,5	13,5	590	3	28,0	9,3	410	3	25,5
V = 6200 m³/h (3 stage)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	34,8	1530	9	15,5	29,9	1310	7	13,5	25,0	1090	6	11,0	20,1	880	4	9,0
5	32,1	1420	8	19,5	27,3	1200	6	17,5	22,4	980	5	15,5	17,6	770	3	13,0
10	29,5	1300	6	23,5	24,8	1090	6	21,5	20,0	870	4	19,5	15,1	660	4	17,0
15	27,0	1190	5	28,0	22,2	980	5	25,5	17,5	770	3	23,5	12,7	550	3	21,0
20	24,5	1080	6	32,0	19,8	870	4	29,5	15,1	660	4	27,5	10,4	450	4	25,0

G-W-200 - Water Heated - 1 Row Heat Exchanger

Tp1	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2
°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C
V = 5100 m³/h (1 stage/40%)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	29,3	1290	6	17,5	25,3	1110	6	15,5	21,1	920	5	13,0	17,0	740	5	10,5
5	27,1	1190	5	21,5	23,0	1010	5	19,0	19,0	830	4	16,5	14,9	650	4	14,0
10	24,9	1100	6	25,5	20,9	920	4	23,0	16,9	740	5	20,5	12,8	560	3	18,0
15	22,7	1000	5	29,5	18,8	820	4	27,0	14,8	650	4	24,5	10,8	470	4	22,0
20	20,6	910	4	33,5	16,7	730	5	31,0	12,8	560	3	28,5	8,8	380	3	25,5
V = 6200 m³/h (2 stage)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	33,2	1460	8	16,0	28,5	1250	6	14,0	23,9	1040	6	11,5	19,2	840	4	9,4
5	30,6	1350	7	20,0	26,0	1140	5	18,0	21,4	940	5	15,5	16,8	730	5	13,5
10	28,2	1240	6	24,5	23,6	1040	6	22,0	19,0	830	4	19,5	14,5	630	4	17,5
15	25,7	1130	5	28,0	21,2	930	5	26,0	16,7	730	5	23,5	12,1	530	3	21,5
20	23,3	1030	5	32,0	18,9	830	4	30,0	14,4	630	4	27,5	9,9	430	4	25,0
V = 8100 m³/h (3 stage)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	38,9	1720	9	14,5	33,5	1470	8	12,0	28,0	1220	6	10,0	22,4	980	5	8,0
5	36,0	1580	7	18,5	30,5	1340	7	16,5	25,1	1100	6	14,5	19,6	860	4	12,5
10	33,1	1460	8	22,5	27,7	1220	6	20,5	22,3	980	5	18,5	16,9	740	5	16,5
15	30,2	1330	7	26,5	24,9	1090	6	24,5	19,6	860	4	22,5	14,2	620	3	20,5
20	27,4	1210	6	31,0	22,1	970	5	28,5	16,9	740	5	26,5	11,6	500	2	24,5

V – air flow
PT – heating capacity
Tp1 – inlet air temperature
Tp2 – outlet air temperature

Tw1 – inlet water temperature
Tw2 – outlet water temperature
Qw – heating water flow rate
Δpw – water pressure

HEATING CAPACITY - Hot Water Heated Versions

G-W-150 2R - Water Heated - 2 Row Heat Exchanger

Tp1	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2
°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C
V = 3500 m³/h (1 bieg)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	48,2	2120	3	38	41,4	1820	3	33	34,6	1520	4	28	27,8	1210	2	22
5	44,4	1960	3	41	37,8	1660	2	36	31,0	1360	3	30	24,3	1060	2	25
10	40,8	1800	2	44	34,2	1500	3	38	27,6	1210	2	33	20,9	910	2	27
15	37,2	1640	2	46	30,7	1350	3	41	24,2	1060	3	35	17,6	770	3	30
20	33,8	1490	3	49	27,3	1200	2	43	20,8	910	2	38	14,3	620	2	32
V = 4600 m³/h (2 bieg)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	57,3	2520	5	35	49,2	2160	4	30	41,0	1800	3	25	32,9	1430	3	20
5	52,9	2330	4	38	44,9	1970	3	33	36,8	1610	2	28	28,7	1250	2	23
10	48,5	2140	3	40	40,6	1780	2	36	32,6	1430	3	31	24,7	1080	3	26
15	44,3	1950	3	43	36,5	1600	2	38	28,6	1250	2	33	20,7	900	3	28
20	40,2	1770	2	46	32,4	1420	3	41	24,6	1080	3	36	16,8	730	3	31
V = 5700 m³/h (3 bieg)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	65,2	2870	4	32	56,0	2460	4	27	46,6	2040	3	23	37,3	1620	2	18
5	60,2	2650	4	35	51,1	2240	4	30	41,8	1830	3	26	32,6	1420	3	21
10	55,3	2440	4	38	46,2	2030	3	33	37,1	1620	2	29	27,9	1220	2	24
15	50,5	2220	4	41	41,5	1820	3	36	32,5	1420	3	32	23,4	1020	3	27
20	45,7	2020	3	44	36,8	1620	2	39	28,0	1220	2	35	19,0	830	2	30

G-W-200 2R - Water Heated - 2 Row Heat Exchanger

Tp1	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2	PT	Qw	Δpw	Tp2
°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C	kW	l/h	kPa	°C
V = 4600 m³/h (1 bieg/40%)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	53,3	2350	4	36	45,8	2010	3	31	38,2	1670	2	26	30,6	1330	3	21
5	49,2	2170	3	39	41,7	1830	3	34	34,3	1500	4	29	26,8	1170	2	24
10	45,2	1990	3	42	37,8	1660	2	37	30,4	1330	3	31	23,0	1000	3	26
15	41,2	1820	2	45	33,9	1490	3	39	26,7	1170	2	34	19,3	840	2	29
20	37,4	1650	2	47	30,2	1330	3	42	23,0	1010	3	37	15,7	680	3	31
V = 5700 m³/h (2 bieg)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	61,7	2720	4	33	53,0	2330	4	28	44,2	1930	3	24	35,3	1540	4	19
5	57,0	2510	5	36	48,3	2120	3	31	39,6	1730	2	27	30,9	1350	3	22
10	52,3	2310	4	39	43,7	1920	3	34	35,1	1540	4	30	26,5	1160	2	25
15	47,7	2100	3	42	39,3	1730	2	37	30,8	1350	3	32	22,2	970	3	28
20	43,3	1910	3	45	34,9	1530	4	40	26,5	1160	2	35	18,0	790	2	30
V = 7600 m³/h (3 bieg)																
	Tw1/Tw2 = 90/70°C				**Tw1/Tw2 = 80/60°C**				**Tw1/Tw2 = 70/50°C**				**Tw1/Tw2 = 60/40°C**			
0	74,2	3270	5	29	63,5	2790	4	25	52,9	2310	4	21	42,2	1840	3	17
5	68,5	3020	5	32	58,0	2550	5	28	47,4	2080	3	24	36,8	1610	2	20
10	62,8	2770	4	36	52,5	2300	4	31	42,1	1840	3	27	31,6	1380	3	23
15	57,4	2530	5	39	47,1	2070	3	35	36,8	1610	2	30	26,5	1150	2	26
20	52,0	2290	4	42	41,9	1840	3	38	31,7	1390	3	33	21,4	930	2	29

V – air flow
PT – heating capacity
Tp1 – inlet air temperature
Tp2 – outlet air temperature

Tw1 – inlet water temperature
Tw2 – outlet water temperature
Qw – heating water flow rate
Δpw – water pressure