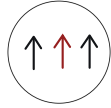

NEW ELiS AX AIR CURTAIN

Advantages of AX



high efficiency



wide range of
heating power



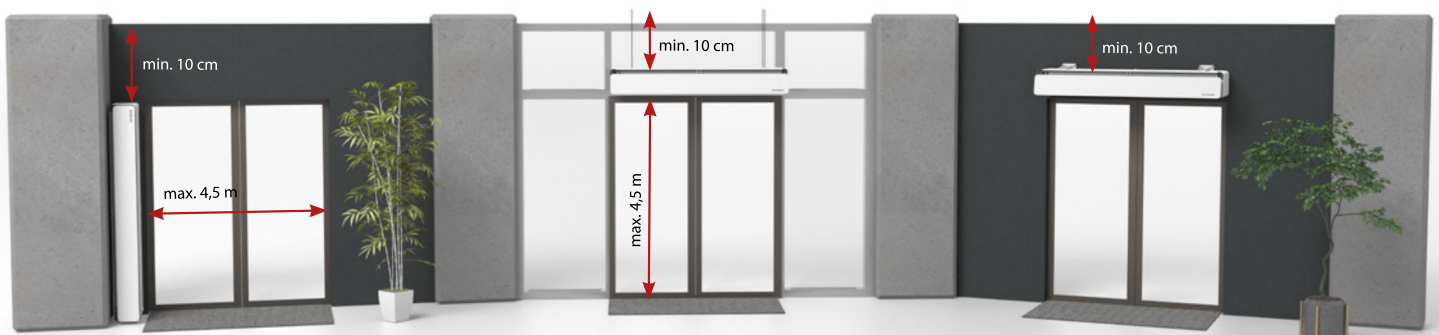
quiet work
- EC fans



INSTALLATION

3 mounting possibilities

The ELiS AX curtain can be mounted both vertically and horizontally using dedicated consoles or brackets. Additionally, the curtain is equipped with integrated fasteners, so it can be suspended with threaded M8 rods, solution often used when mounting next to glass walls.

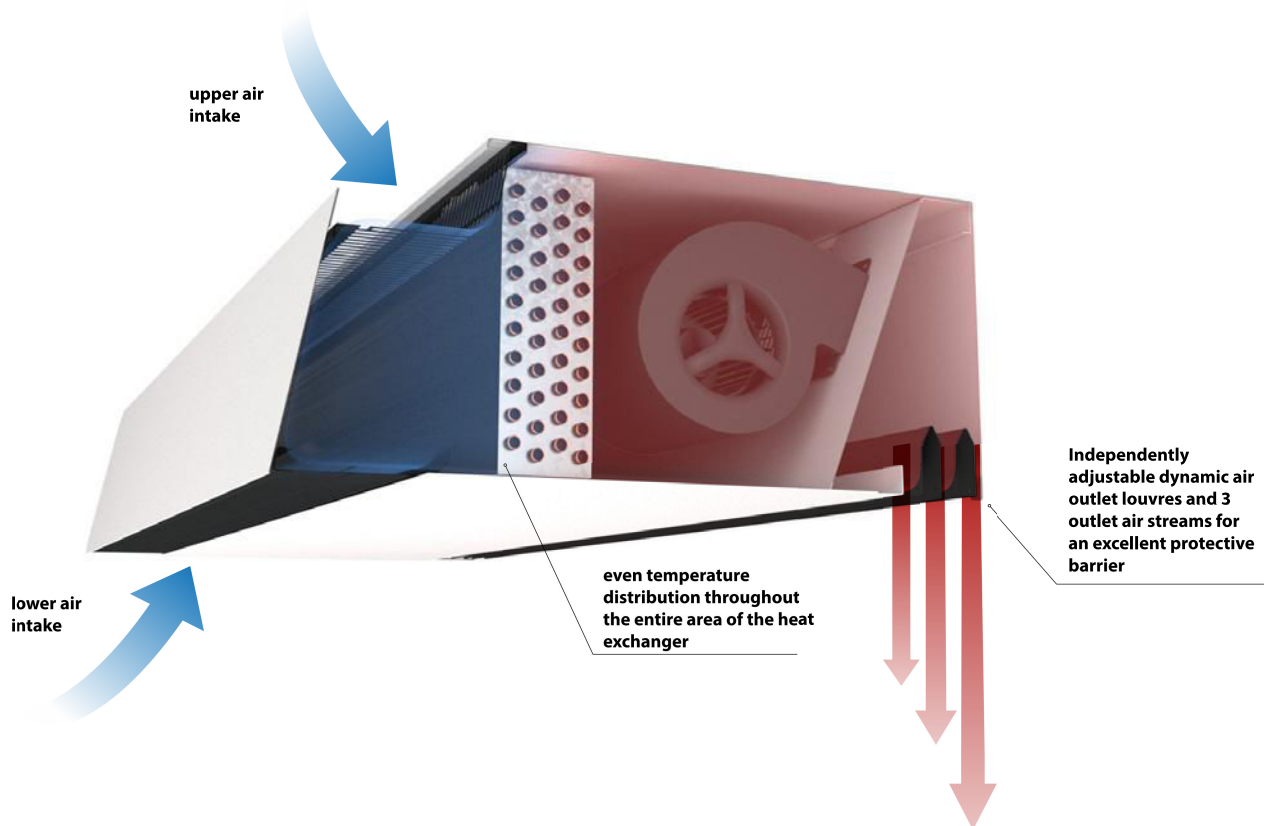


WHAT IS OPTIFLOW?

Comfort and economy

Optiflow technology ensures an **energy efficient airflow** through the aircurtain and guarantees high thermal comfort.

How does it work? The air enters the curtain **via 2 air intakes**: the lower and the upper intake. Then the air stream flows evenly throughout the entire area of the heat exchanger. Next the hot air stream passes through the fans and compression chamber and is directed towards two adjustable, dynamic outlet louvres which create 3 separate air streams, ensuring an excellent air barrier and additional thermal comfort in the room.






OPTiflow technology is:

- Thermal comfort in the room and energy savings thanks to even heat distribution throughout the entire area of the heat exchanger
- optimal room conditions as a result of independently controlled, dynamic air outlet louvres.
- an excellent barrier against external factors: warm and cool air, dust, smog, insects




AIR CURTAIN ELiS AX



ELiS AX 36

	Range ⁽¹⁾ [m] 3,6 m		Heating capacity ⁽²⁾ [kW] 7,9 – 38,0		Airflow [m ³ /h] 800 – 5300
----------------------------------------------------------------------------------	------------------------------------------	-----------------------------------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------------------------------	--------------------------------------------------

ELiS AX 45

	Range ⁽¹⁾ [m] 4,5 m		Heating capacity ⁽²⁾ [kW] 10,0 – 41,4		Airflow [m ³ /h] 1000 – 6100
----------------------------------------------------------------------------------	------------------------------------------	-----------------------------------------------------------------------------------	------------------------------------------------------------	-----------------------------------------------------------------------------------	---------------------------------------------------

	Color White with black elements		Casing Steel
----------------------------------------------------------------------------------	-------------------------------------------	-----------------------------------------------------------------------------------	------------------------



DOWOLNY RAL
NA ZAPYTANIE

⁽¹⁾ according to ISO 27327-1

⁽²⁾ Power and temperature range for parameters: min. efficiency, temperature of the heating medium 40/30°C, temperature of the air at the inlet to devices 18°C - max. efficiency, heating medium temperature 60/40°C, air temperature at the inlet to the device 18°C

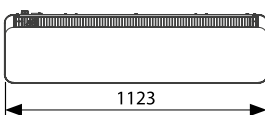
APPLICATION

ELiS AX curtains can be used in various facilities such as commercial buildings (cafes, restaurants, museums, shopping malls), and industrial buildings (warehouses, logistic centers, manufacturing plants) The devices are designed for horizontal installation directly above the door openings and for vertical installation at the sides of the opening. They are equipped with an advanced, built-in automation.

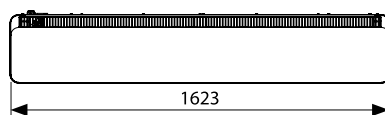
AVAILABLE TYPES OF UNITS:

- **4 LENGTHS**
1 m, 1,5 m, 2 m i 2,5 m
- **VERSIONS**
W – water heat exchanger

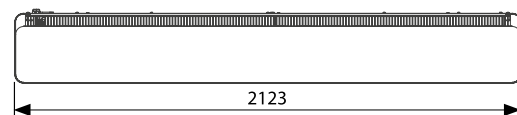
DIMENSIONS



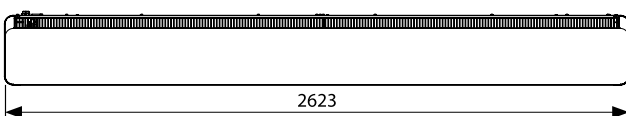
ELiS AX W-100



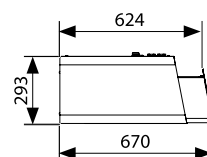
ELiS AX W-150



ELiS AX W-200



ELiS AX W-250



TECHNICAL DATA

Air curtains

ELiS AX

	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. water temperature [°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 working temp. [°C]	30	30	30	30	30	30	30	30
Curtain's air temperature rise ⁽⁴⁾ (ΔT) [°C]	26-21	29-22	25-20	27-21	32-26	34-27	31-26	33-26
Unit 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. water temperature [°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 working temp. [°C]	30	30	30	30	30	30	30	30
Curtain's air temperature rise ⁽⁴⁾ (ΔT) [°C]	25-18	27-20	24-19	27-20	30-23	32-25	31-24	33-25
Unit 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⁾ 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

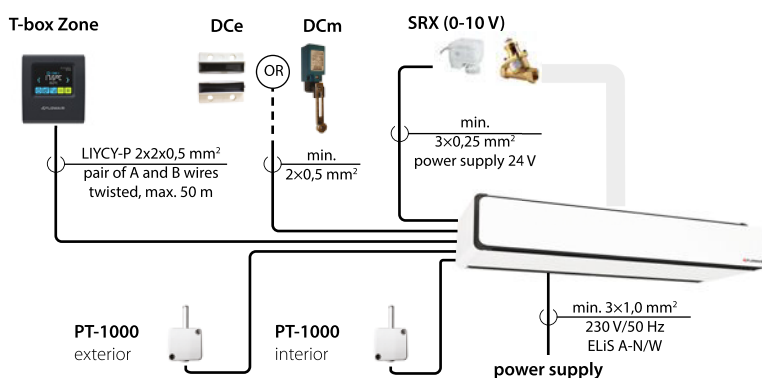
⁽³⁾ Sound power level according to ISO 27327-1

⁽⁴⁾ Power and temperature range specified for parameters: min. efficiency, heating medium temperature 40/30°C, air temperature at the inlet to the device 18°C - max. efficiency, heating medium temperature 60/40°C, air temperature at the inlet to the device 18°C

CONNECTION DIAGRAMS

Built-in automation

T-box ZONE CONTROLLER



ELEMENTS:

- **T-Box Zone** – intelligent controller with touch screen and zoning function
- **DCe** – magnetic door sensor
- **DCm** – mechanical door sensor
- **SRX** – SRX balancing, modulating valve with an actuator

Two types of BMS

- Modbus
- Simple control signals (work-stop-failure)

HEATING CAPACITIES

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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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

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

HEATING CAPACITIES

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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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																			
Airflow: 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 – 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



HEAT POWER CALCULATOR

Select a device for different parameters, scan QR code.