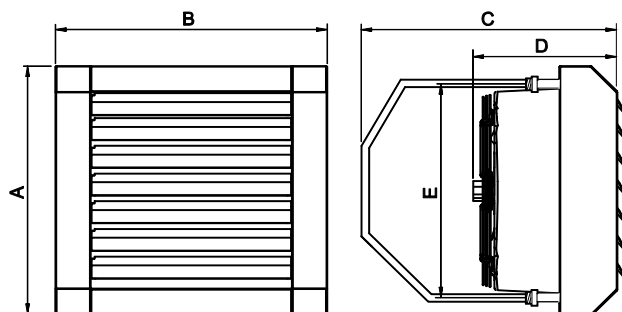


MAIN DIMENSION



	Dimension [mm]				
	A	B	C	D	E
LEO INOX 25, 45	600	640	610	350	440
LEO INOX 65	600	640	630	370	440


GENERAL INFORMATION


Air water heater. Casing, air blades and FB Brackets are made of austenitic stainless steel (ANSI 316L). Available control based on modulated operation of the heater (M-Type). Airflow and heat capacity are automatically controlled depending on actual temperature. Specially designed profile of nozzle directs air onto the whole surface of the exchanger and reduces noise generated during airflow. It is made of ABS – antistatic plastic. FB bracket (accessory) and air blades can be mounted either vertically or horizontally, thanks to this air stream can be directed onto the zone of peoples residence. LEO INOX are fit to be mounting in building of food and pharmaceutical production, live-stock farms, greenhouses (before ordering it should be checked proper grade of stainless steel for using in the given object).

M-type – Axial, electronically commutated EC motor, single phase.

S/V-type – Axial, single phase.

DANE TECHNICZNE

	INOX 25 V	INOX 25 S	INOX 25 M	INOX 45 V	INOX 45 S	INOX 45 M	INOX 65 V	INOX 65 S	INOX 65 M
Maximum airflow	4400 m ³ /h			4100 m ³ /h			3900 m ³ /h		
Power supply	230 V / 50 Hz								
Power consumption	1,3 A	1,2 A	0,7 A	1,3 A	1,2 A	0,7 A	1,3 A	1,2 A	0,7 A
Current consumption	300 W	280 W	170 W	300 W	280 W	170 W	300 W	280 W	170 W
IP / Insulation class	54/F								
Acoustic pressure level*	51 dB(A)*								

	INOX 25 V	INOX 25 S	INOX 25 M	INOX 45 V	INOX 45 S	INOX 45 M	INOX 65 V	INOX 65 S	INOX 65 M
Exchanger	Cu-Al, one-row			Cu-Al, two-row			Cu-Al three-row		
Heating capacity**	25,4 kW			46,8 kW			64,6 kW		
Air temperature rise**	16,0 °C			31,6 °C			46,1 °C		
Connection	3/4"								
Maximum working pressure	1,6 MPa								
Maximum temperature of heating water	130 °C								

* Acoustic pressure level measured in the room of average sound absorption, capacity 1500 m³, at distance of 5 m from the unit.

** Maximum air flow, water temperature 90/70, air inlet temperature 0 °C

DANE TECHNICZNE

	INOX 25 V	INOX 25 S	INOX 25 M	INOX 45 V	INOX 45 S	INOX 45 M	INOX 65 V	INOX 65 S	INOX 65 M
Casing	Stainless steel (ANSI 316L)								
Color	INOX								
Weight	19,4	16,1		20,8	17,5		22,7		19,4
Weight (unit filled with water)	20,4	17,1		22,8	19,5		25,4		22,1
Working environment	Indoors								
Air stream range***	26 m			24 m			22 m		

*** Range of isothermal horizontal stream, limit speed 0,5 m/s

Special features	LEO INOX
	FB Bracket can be mounted at an angle of 30 or 45 deg to the mounting surface. It can be mounted either vertically or horizontally to the unit.
	Casing, air blades and FB Brackets are made of austenitic stainless steel (ANSI 316L).
	U-profile for easier levelling and mounting by pins to the ceiling.
	Specially designed profile of nozzle directs air onto the whole surface of the exchanger and reduces noise generated during air flow.
	Air blades can be mounted either vertically or horizontally..
	Available control based on modulated operation of the heater (M-Type). Airflow and heat capacity are automatically controlled depending on actual temperature.
	Modern design.

HEATING CAPACITY

LEO INOX 25					LEO INOX 45				LEO INOX 65			
V = 4400 m ³ /h					V = 4100 m ³ /h				V = 3900 m ³ /h			
Tp1	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
Tw1/Tw2 = 90/70 °C					Tw1/Tw2 = 90/70 °C				Tw1/Tw2 = 90/70 °C			
0	25,4	1121	11,7	16,0	46,8	2067	17,5	31,5	64,6	2660	36,8	46,0
5	23,5	1037	10,1	20,0	43,3	1911	15,2	34,5	60,2	2464	32,0	48,5
10	21,6	953	8,7	24,0	39,8	1758	13,0	38,0	55,4	2272	27,6	50,5
15	19,7	871	7,4	28,0	36,4	1607	11,0	41,0	50,1	2084	23,6	53,0
20	17,9	790	6,2	32,0	33,1	1459	9,2	44,0	46,2	1899	19,9	55,0

V – airflow
 PT – heat capacity
 Tp1 – inlet air temp.
 Tp2 – outlet air temp.
 Tw1 – inlet water temp.
 Tw2 – outlet water temp.
 Qw – water flow rate
 Δpw – pressure drop of water

HEATING CAPACITY

LEO INOX 25					LEO INOX 45				LEO INOX 65			
V = 4400 m ³ /h					V = 4100 m ³ /h				V = 3900 m ³ /h			
TP1	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
Tw1/Tw2 = 80/60 °C					Tw1/Tw2 = 80/60 °C				Tw1/Tw2 = 80/60 °C			
0	21,6	950	8,9	13,5	40,1	1762	13,4	27,0	56,1	2288	28,7	40,0
5	19,7	867	7,5	17,5	36,6	1610	11,4	30,0	51,3	2097	24,5	42,0
10	17,9	785	6,3	21,5	33,2	1459	9,5	33,0	46,7	1909	20,7	44,5
15	16,0	704	5,1	25,5	29,9	1312	7,8	36,0	42,1	1725	17,2	46,5
20	14,2	624	4,1	29,5	26,5	1166	6,3	39,0	37,6	1543	14,1	48,5
Tw1/Tw2 = 70/50 °C					Tw1/Tw2 = 70/50 °C				Tw1/Tw2 = 70/50 °C			
0	17,8	779	6,4	11,0	33,3	1459	9,8	22,5	47,1	1919	21,5	33,5
5	15,9	697	5,2	15,0	29,9	1309	8,1	25,5	42,5	1731	17,9	35,5
10	14,1	617	4,2	19,0	26,6	1162	6,5	28,5	37,9	1547	14,6	38,0
15	12,3	537	3,2	23,0	23,2	1017	5,1	31,5	33,4	1366	11,6	40,0
20	10,5	457	2,4	27,0	20,0	874	3,9	34,5	28,9	1187	9,1	42,0
Tw1/Tw2 = 60/40 °C					Tw1/Tw2 = 60/40 °C				Tw1/Tw2 = 60/40 °C			
0	13,9	606	4,2	9,0	26,5	1155	6,7	18,0	35,6	1549	15,2	25,0
5	12,1	525	3,2	12,5	23,1	1008	5,2	21,0	31,3	1365	12,1	27,5
10	10,2	445	2,4	16,5	19,8	862	3,9	24,0	27,2	1183	9,3	30,0
15	8,4	365	1,7	20,5	16,5	719	2,8	26,5	23,0	1004	7,0	32,0
20	6,5	283	1,1	24,5	13,2	575	1,9	29,5	18,9	825	4,9	34,5
Tw1/Tw2 = 50/40 °C					Tw1/Tw2 = 50/40 °C				Tw1/Tw2 = 50/40 °C			
0	14,0	1216	15,1	9,0	25,9	2251	22,7	17,5	33,4	2902	48,1	23,5
5	12,1	1056	11,6	13,0	22,5	1959	17,7	20,5	29,2	2540	37,7	26,0
10	10,3	897	8,6	16,5	19,2	1672	13,2	23,5	25,1	2183	28,7	28,5
15	8,5	740	6,1	20,5	16,0	1389	9,5	26,5	21,1	1833	20,9	30,5
20	6,7	585	4,0	24,5	12,8	1109	6,3	29,0	17,1	1488	14,4	33,0

V - airflow

PT - heat capacity

TP1 - inlet air temp

TP2 - outlet air temp

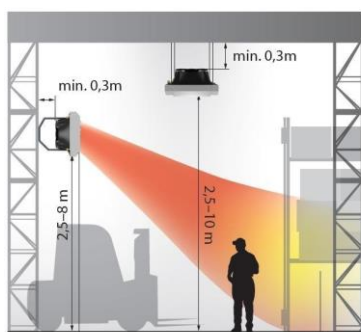
TW1 - inlet water temp

TW2 - outlet water temp

Qw - water flow rate

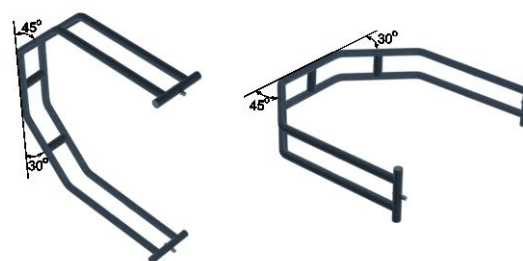
Δpw - pressure drop of water

RECOMMENDED MOUNTING DISTANCE






L - zasięg strugi powietrza
 dla LEO INOX 25 L= 28m
 dla LEO INOX 45 L= 24m
 dla LEO INOX 65 L= 22m

INOX BRACKET



AUTOMATIC ELEMENTS

		LEO INOX typ	S/V	M			LEO INOX typ	S/V	M
RA		room thermostat	●						
R55		Room thermostat with increased IP	●		VNT20		fan speed controller with a built-in room thermostat programmable fan speed controller with a built-in room thermostat		●
RE		room thermostat with a weekly programmer	●		VNTLCD		signal distributor external temperature sensor IP65		●
TR / TRd		1,5A 3,5 A five step fan speed regulator	●		R10		signal distributor		●
SRQ2d		3/4" two-way valve with actuator	●	●	PT-1000 IP65		fan speed controller with a built-in room thermostat		●
SRQ3d		3/4" three-way valve with actuator	●	●					

Detailed information concerning installation and electrical connections are available in the technical documentation of the device.