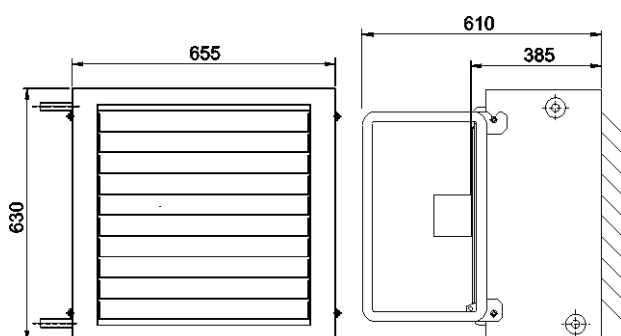


## SPECIFICATION SHEET LEO EX 25 / LEO EX 45

KK LEO EX2545 11.09. EN




### MAIN DIMENSIONS



### GENERAL INFORMATION

Water air heater with anti-explosive fan with IP44 and F insulation class, designed to operate in zone Z-2. The unit is dedicated to work above the ground surface in explosive areas where mixtures of air and other gases, liquids and their vapors from ethylene group (with temperature class T3) are present. Due to solid casing made of powder coated steel sheet, the device is more durable to any kinds of mechanical damages. Air blades allow free adjustment of supply air angle. Specially shaped nozzle not only directs the air stream onto the entire surface of the heat exchanger, ensuring its optimal use, but significantly reduces the noise level as well.

### TECHNICAL DATA

	LEO EX 25	LEO EX 45		LEO EX 25	LEO EX 45
Fan	Axial, single phase, alternating current (AC)		Heat exchanger	Cu-Al, one-row	Cu-Al, two-row
Maximum airflow	4300 m <sup>3</sup> /h	3800 m <sup>3</sup> /h	Heating capacity**	25,5 kW	44,9 kW
Supply Y	3 x 400V / 50Hz		Air temperature rise (ΔT)**	17°C	35°C
Current consumption Δ/Y	0,51A		Connection	3/4"	
Power consumption	290W		Maximum working pressure	1,6 MPa	
IP / Insulation class	44/F		Maximum working temperature	130 °C	
	LEO EX 25	LEO EX 45	Special features	LEO EX 25 / LEO EX 45	
Casing	Powder coated steel		Anti-explosive fan with IP44 and F insulation class.		
Color	Gray		Solid casing made of powder coated steel sheet, durable to any kinds of mechanical damage and dirt.		
Weight	33,1 kg	34,5 kg	Fully adjustable air blades.		
Weight (unit filled with water)	34,2 kg	36,6 kg	Specially designed nozzle which directs the air stream and reduces the noise level.		
Working environment	Indoors				
Positioning	Vertical (on wall), Horizontal (under the ceiling)				
Air stream range***	24 m	22 m			

\* Acoustic pressure level measured in the room of average sound absorption, capacity 1500 m<sup>3</sup>, at distance of 5 m from the unit.

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

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

## HEAT CAPACITY SHEET FOR LEO EX 25 / LEO EX 45

### LEO EX 25

**V = 4300m<sup>3</sup>/h**

**Tw1/Tw2 = 90/70°C**

TP1 °C	PT kW	Qw l/h	Δpw kPa	TP2 °C
0	25,5	1090	7,6	17
5	23,7	1018	6,7	21
10	22,0	946	5,9	25
15	20,2	874	5,1	29
20	18,4	805	4,3	33

**Tw1/Tw2 = 80/60°C**

0	21,7	946	5,9	15
5	20,0	5874	5,1	19
10	18,2	802	4,4	23
15	16,5	730	3,7	26
20	14,8	658	3,0	30

**Tw1/Tw2 = 70/50°C**

0	18,0	802	4,4	12
5	16,3	694	3,7	16
10	14,5	622	3,0	20
15	12,8	550	2,4	24
20	11,1	478	1,9	28

**Tw1/Tw2 = 60/40°C**

0	14,7	642	4,9	10
5	12,8	558	3,8	13
10	10,9	475	2,8	17
15	9,0	392	2,0	21
20	7,0	308	1,3	25

### LEO EX 45

**V = 3800m<sup>3</sup>/h**

**Tw1/Tw2 = 90/70°C**

TP1 °C	PT kW	Qw l/h	Δpw kPa	TP2 °C
0	44,9	1882	12,5	35
5	41,0	1738	11,0	37
10	37,3	1630	9,7	39
15	34,6	1476	8,3	42
20	31,8	1368	7,1	45

**Tw1/Tw2 = 80/60°C**

0	37,2	1584	9,8	29
5	34,4	1476	8,4	32
10	31,5	1368	5,2	35
15	28,6	1224	6,1	37
20	25,7	1116	5,0	40

**Tw1/Tw2 = 70/50°C**

0	31,2	1340	7,4	24
5	28,4	1225	6,3	27
10	25,5	1080	5,2	30
15	22,6	975	4,2	33
20	19,7	865	3,3	35

**Tw1/Tw2 = 60/40°C**

0	26,8	1167	7,3	20
5	23,4	1020	5,7	22
10	20,1	876	4,4	25
15	16,8	732	3,2	28
20	13,5	589	2,2	31

**V** - airflow

**PT** - heat capacity

**TP1** - inlet air temperature

**TP2** - outlet air temperature

**Tw1** - inlet water temperature

**Tw2** - outlet water temperature

**Qw** - water flow rate

**Δpw** - water pressure drop

## AUTOMATICS ELEMENTS

Please ask the FLOWAIR company about the suggested automatics elements. All components are individually selected concerning the specific needs and conditions of each building. Fan motor requires special external protective system, for example U-EK 230E or other similar.

## RECOMMENDED MOUNTING DISTANCE

