



**FLEXIHEAT UK LTD**  
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## CATALOGUE CARD LEO S3 NP | L3 NP | XL3 NP

### GENERAL INFORMATION



- Fan heaters LEO NP are used for heating large volume buildings: general, industrial and public buildings etc. The devices are designed for indoor use where maximum air dustiness does not exceed 0.3 g/m<sup>3</sup>.
- EPP housing, color grey (near to RAL 9007).
- 3-speed, energy saving fan in standard.
- Easy to mount thanks to small size and weight.

### CONTROL SYSTEM



**T-box / T-box Zone**  
 LEO S3 NP BMS | L3 NP BMS | XL3 NP BMS

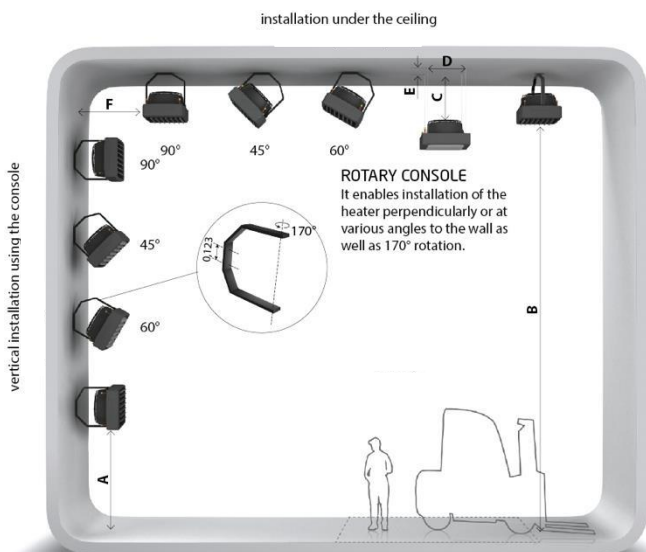
- 3-speed, auto fan regulation
- working modes: heating/ventilation
- antifreeze
- BMS
- integration with FLOWAIR SYSTEM



**TS**  
 LEO S3 NP | L3 NP | XL3 NP

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

### INSTALLATION



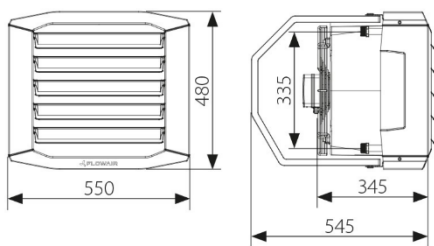
	A	B	C	D	E	F
S3 NP	<3,0	2,5-6,0	>0,2	0,415	0,415	>0,5
L3 NP	2,5-8,0	2,5-8,0	>0,25	0,515	0,515	>0,5
XL3 NP	2,5-8,0	2,5-9,0	>0,25	0,66	0,58	>0,5



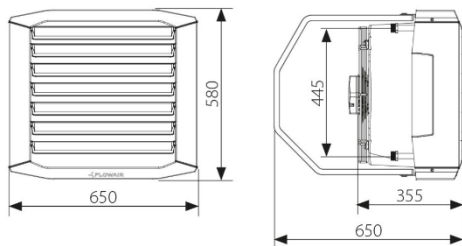
Corner holders, ensure easy installation and leveling of the heater.

## TECHNICAL DATA

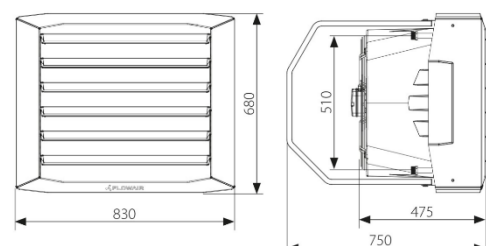
**LEO S3 NP**



**LEO L3 NP**



**LEO XL3 NP**



	LEO S3 NP			LEO L3 NP			LEO XL3 NP		
Gear   Bieg	III	II	I	III	II	I	III	II	I
Max airflow [m <sup>3</sup> /h ]	1800	1400	1000	3400	2100	1200	5300	4100	2500
Heating power range [kW]*	12,0 – 3,3			23,9 – 5,0			45,1 – 11,2		
Nominal heating power (60/30/18°C, III-speed)	6,3			13,2			25,4		
Power supply [V/Hz]	230 / 50								
Max current consumption [A]	0,6	0,4	0,3	1,5	1,2	0,6	2,4	1,8	1,4
Max power consumption [W]	130	90	70	340	240	120	550	370	270
IP/ Insulation class	54 / F								
Acoustic pressure level [dB(A)]**	56,3	50,7	43,9	64,1	54,5	42,1	67,5	61,1	52,3
Acoustic power level [dB(A)]***	71,4	65,8	59,0	79,2	69,6	57,2	82,6	76,2	67,8
Horizontal range [m]	12,5	9,5	7,0	19,0	11,5	6,5	23,5	18,0	11,0
Vertical range [m] ****	4,9	3,9	2,9	6,8	4,4	2,8	7,7	6,2	4,1
Max heating water temperature [°C]	70								
Max. temp. [°C]	1,6								
Max operating pressure [MPa]	½"			¾"			¾"		
Connection	EPP								
Type of casing	grey (similar to RAL 9007)								
Color	indoors								
Usage	60								
Max working temperature [°C]	10,5			16,3			25,8		
Device mass [kg]	11,5			18,6			29,6		
Mass of device filled with water [kg]	550 x 480 x 345			650 x 580 x 355			830 x 680 x 475		
Device dimensions [mm]									

\* max. 60/40/10°C III-speed, min. 45/30/20°C I-step  
max. 60/40/10°C III-bieg, min. 45/30/20°C I-bieg

\*\* Acoustic pressure level has been measured 5m from the unit in a 1500m<sup>3</sup> space with a medium sound absorption coefficient.

\*\*\* Acoustic power level according to EN ISO 3744:2011.

\*\*\*\* Horizontal isothermal range for 0,5 m/s border air stream speed.

\*\*\*\*\* Vertical nonisothermal range for ΔT = 5°C and for 0,5 m/s border air stream speed.

## HEATING CAPACITY

Tw1/Tw2 = 60/40°C					Tw1/Tw2 = 60/30°C					Tw1/Tw2 = 50/30°C					Tw1/Tw2 = 45/30°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
<b>LEO S3 NP</b>																			
III step: V = 1800 m <sup>3</sup> /h III biege: V = 1800 m <sup>3</sup> /h																			
10,0	12,0	522	21,9	29,5	10,0	9,2	268	6,7	25,0	10,0	8,4	365	11,9	23,5	10,0	8,0	460	18,3	23,0
12,0	11,3	492	19,7	30,5	12,0	8,5	248	5,8	26,0	12,0	7,7	335	10,2	24,5	12,0	7,3	422	15,6	24,0
15,0	10,3	449	16,6	31,5	15,0	7,4	216	4,5	27,0	15,0	6,7	290	7,9	26,0	15,0	6,3	363	11,9	25,0
18,0	9,3	404	13,8	33,0	18,0	6,3	182	3,3	28,0	18,0	5,6	243	5,7	27,0	18,0	5,2	303	8,6	26,5
20,0	8,6	374	12,0	34,0	20,0	5,5	159	2,6	29,0	20,0	4,9	211	4,4	28,0	20,0	4,5	261	6,6	27,5
<b>LEO L3 NP</b>																			
III step: V = 3400 m <sup>3</sup> /h III biege: V = 3400 m <sup>3</sup> /h																			
10,0	23,9	1043	27,1	30,5	10,0	18,9	550	8,6	26,5	10,0	17,0	739	15	24,5	10,0	16,0	926	22,8	24,0
12,0	22,6	986	24,5	31,5	12,0	17,6	510	7,5	27,0	12,0	15,7	681	12,9	25,5	12,0	14,7	851	19,5	24,5
15,0	20,6	900	20,7	32,5	15,0	15,4	447	5,9	28,5	15,0	13,6	593	10,0	26,5	15,0	12,7	736	15,0	26,0
18,0	18,6	813	17,2	34,0	18,0	13,2	382	4,4	29,5	18,0	11,5	501	7,4	28,0	18,0	10,7	618	10,9	27,0
20,0	17,3	755	15,0	35,0	20,0	11,6	337	3,5	30,0	20,0	10,1	439	5,8	28,5	20,0	9,3	538	8,5	28,0
<b>LEO XL3 NP</b>																			
III step: V = 5300 m <sup>3</sup> /h III biege: V = 5300 m <sup>3</sup> /h																			
10,0	45,1	1966	37,5	35,0	10,0	36,2	1050	12,1	30	10,0	32,3	1403	20,9	28,0	10,0	30,3	1751	31,7	26,5
12,0	42,6	1860	33,9	35,5	12,0	33,5	974	10,5	30,5	12,0	29,8	1295	18,1	28,5	12,0	27,8	1611	27,2	27,5
15,0	39,0	1699	28,7	36,5	15,0	29,5	857	8,4	31,5	15,0	26,0	1129	14,1	29,5	15,0	24,1	1396	20,9	28,5
18,0	35,5	1539	23,9	37,5	18,0	25,4	736	6,3	32,0	18,0	22,1	959	10,4	30,0	18,0	20,3	1176	15,3	29,0
20,0	32,8	1429	20,9	38,0	20,0	22,4	651	5,1	32,5	20,0	19,4	842	8,2	30,5	20,0	17,7	1027	11,9	30,0

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