

L-TYPE

Gas-fired vertical air heater

Vertical or horizontal air heater with burner.
Output from 30 to 600 kW.



For more information,
downloads and
videos, visit the L-TYPE
page on our website



A wide variety of uses



The Mark L-TYPE is a vertical or horizontal gas-fired air heater with a capacity of 30 to 600 kW. In combination with a 2-stage Low-Nox gas burner (< 70 mg/kWh), ERP 2021 Step 2 is fulfilled.

The device can be blown into the room with an optional exhaust hood or can be connected to a duct system (increased external pressure optional).

The Mark L-TYPE can be used in the following rooms: sports halls, churches, warehouses, offices and shops.

Accessories/options:

- 2-stage duct thermostat
- Room thermostat PinTherm Connect
- Outside installation
- Air filter with filter monitoring
- Servo or manually-operated slatted valves
- Flexible connection
- Downflow hood
- Increased external pressure 300 Pa
- Siphon for condensate connection

Fan

- A dual blast centrifugal ventilator with bent blades
- V-belt drive

Housing

- Pre-painted steel plating
- Frame: aluminium profiles

Standard equipment

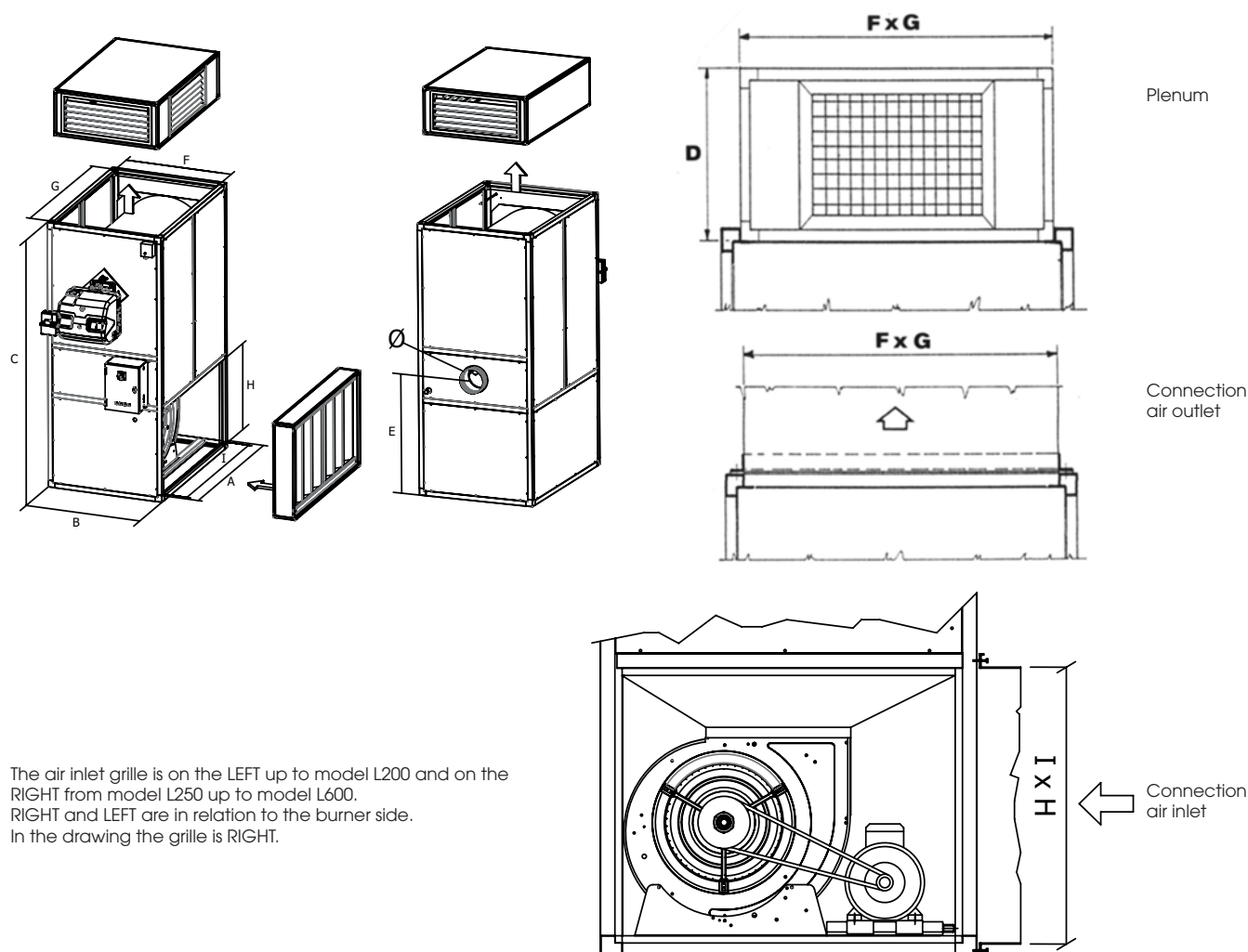
- AISI 430 (1.4016) blast chamber
- AISI 409 (1.4512) heat exchanger
- Electrical switch box
- Three-way thermostat
- Motor cut-out
- Condensate connection



Remote connection possible with the PinTherm Connect!

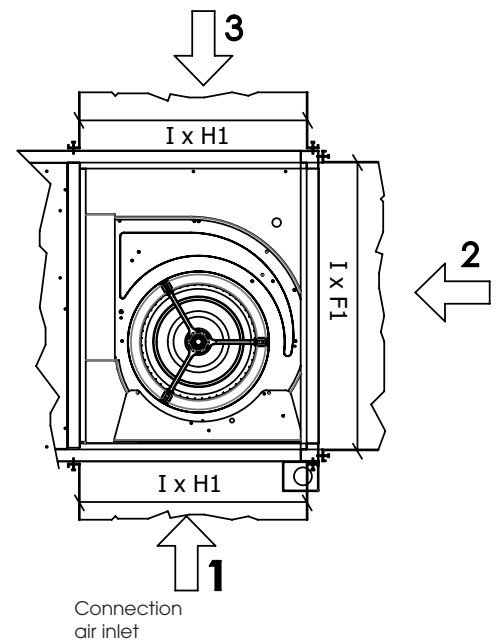
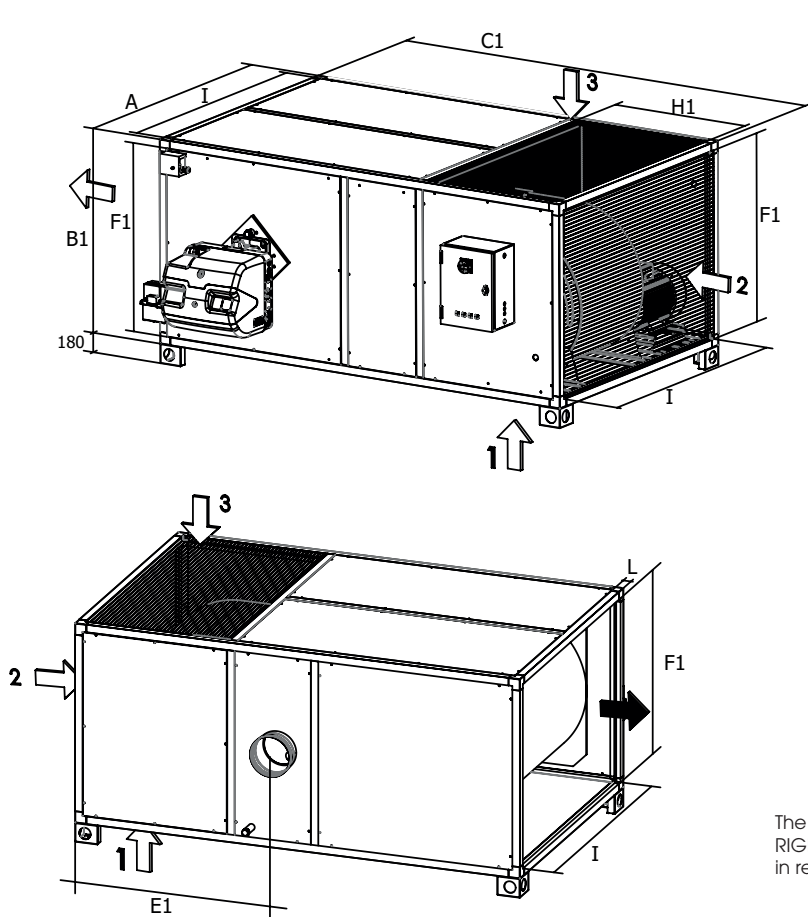
Dimensions

Type	L-TYPE			Head height	Flue height	Air Outlet connection		Air Inlet connection		Frame profile	Flue system	Weight		Net head weight
	Length	Width	Height									Net	Packed	
	A	B	C	D	E	F	G	H	I	L	Ø	kg	kg	kg
L30	660	530	1430	305	705	490	620	480	620	20	150	110	115	10
L60	870	636	1750	305	860	596	830	630	830	20	150	176	183	12
L80	1020	750	1950	405	935	670	940	690	940	40	130	236	245	37
L100	1020	750	1950	405	935	670	940	690	940	40	130	250	260	37
L150	1440	1020	2340	405	1070	940	1360	760	1360	40	150	390	400	40
L175	1440	1020	2340	405	1070	940	1360	760	1360	40	150	400	410	40
L200	1440	1020	2340	405	1070	940	1360	760	1360	40	150	415	425	40
L250	1790	1020	2340	405	1130	940	1710	760	1710	40	200	520	535	46
L300	1790	1020	2340	405	1130	940	1710	760	1710	40	200	550	565	46
L425	2300	1340	2660	405	1220	1260	2220	930	2220	40	250	790	810	67
L500	2300	1340	2660	405	1220	1260	2220	930	2220	40	250	815	830	67
L600	2300	1500	2840	445	1400	1420	2220	1070	2220	40	250	965	985	70





Type	L-TYPE			Head height	Flue height	Air Outlet and Inlet connection		Air Inlet connection		Frame profile	Flue system	Weight	Net head weight
	Length	Width	Height										
	A	B1	C1	D	E1	F1	I	H1	I	L	Ø	Kg	Kg
LO30	660	530	1430	305	705	490	620	480	620	20	150	114	10
LO60	870	636	1750	305	860	596	830	630	830	20	150	180	12
LO80	1020	850	2200	405	1185	770	940	880	940	40	130	300	37
LO100	1020	850	2200	405	1185	770	940	880	940	40	130	314	37
LO150	1440	1020	2340	405	1070	940	1360	760	1360	40	150	395	40
LO175	1440	1020	2340	405	1070	940	1360	760	1360	40	150	405	40
LO200	1440	1020	2340	405	1070	940	1360	760	1360	40	150	420	40
LO250	1790	1020	2660	405	1450	940	1710	1100	1710	40	200	615	46
LO300	1790	1020	2660	405	1450	940	1710	1100	1710	40	200	645	46
LO425	2300	1340	2960	405	1750	1260	2220	1190	2220	40	250	910	67
LO500	2300	1340	2960	405	1750	1260	2220	1190	2220	40	250	935	67
LO600	2300	1500	3290	445	2080	1420	2220	1520	2220	40	250	1100	70



The air inlet grille is on the LEFT up to model LO200 and on the RIGHT from model LO250 up to model LO600. RIGHT and LEFT are in relation to the burner side. In the drawing the grille is RIGHT.

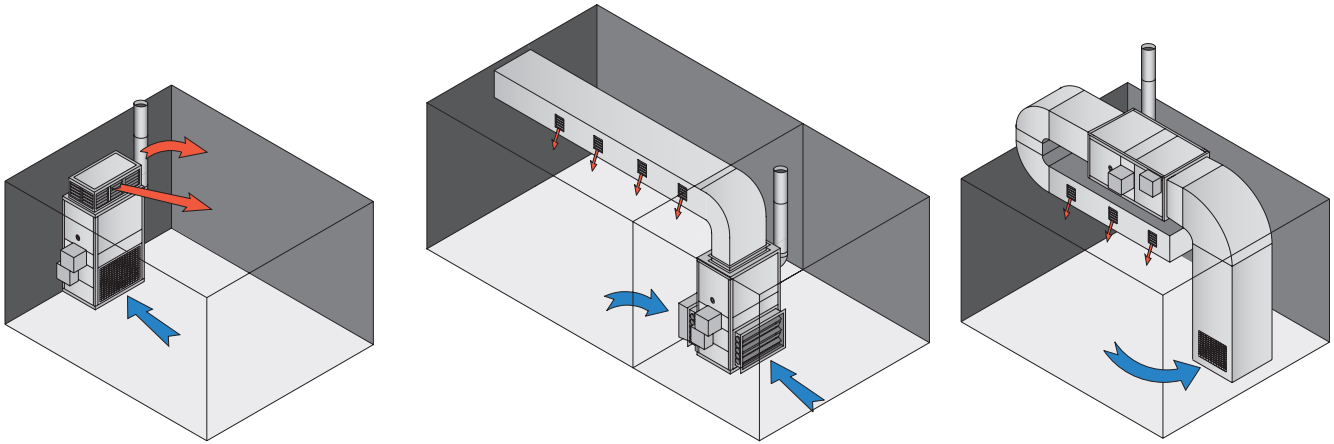


Technical information

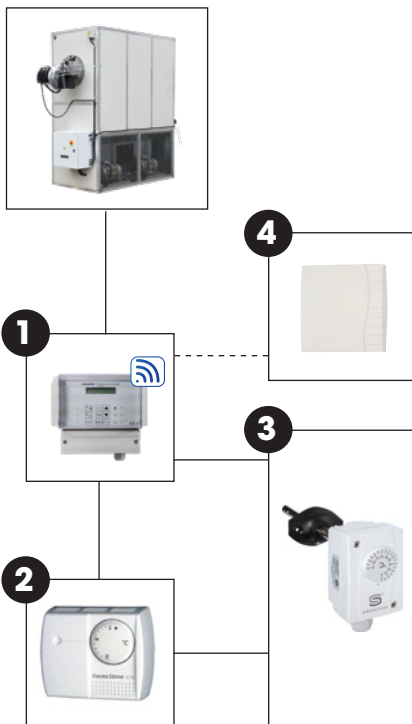
Type		30	60	80	100	150	175	200	250	300	425	500	600
Rated heat input (Hi)	kW	32,6	58	98,5	115,8	179	203	238	270	313	425	500	600
Rated heat input	kW	30,6	56	94,7	110,2	172,4	198,3	229,2	260,8	300,8	420,7	487,5	585
Thermal efficiency at rated heat input	%	94	96,5	96,1	95,2	96,3	97,7	96,3	96,6	96,1	98,6	97,5	97,5
Thermal efficiency at 50% of the rated heat input	%	99,8	103,8	99,3	97,9	100,4	101,8	100,3	101,6	100,5	101,4	102,1	102,1
Back pressure in the combustion chamber with G20	mbar	0,5	0,2	2,3	3,5	2,5	3,4	4	2,6	3,3	3	3,6	5,2
G20: NOx (ERP 20 step ≤ 70Mg/kWh)	mg/kWh	63	69,1	62	57,6	67,4	67,8	67,1	59,5	67,4	63	59,5	58,4
Air flow rate at 18°C	m³/h	2.750	5.100	7.560	9.200	13.000	15.800	18.000	20.800	24.000	32.500	38.300	41.000
Useful static pressure	Pa	50	90	150	150	200	200	200	200	200	200	200	160
Delta T air at max. power	°C	30	30,5	37,2	37,2	40,4	37,6	38,3	37,1	37	37,2	36,7	41
Methane G20 (20 mbar)	m³/h	3,45	5,82	10,42	12,91	18,94	21,48	25,19	28,57	33,12	44,97	52,9	63,5
Natural gas G25 (25 mbar)	m³/h	4	6,76	12,1	15	22	25	29,3	33,24	38,53	52,3	61,5	73,8
Propane G31 (37 mbar)	kg/h	2,48	4,27	7,65	9,48	13,91	15,77	18,49	20,98	24,32	32,8	38,6	46,3
Butane G30 (28 mbar)	kg/h	2,52	4,34	7,77	9,62	14,12	16,01	18,77	21,29	24,68	33,5	39,4	47,3
Sound pressure (at 5 m)	dB(A)	62	72	72	73	71	73	74	74	75	74	75	75
Supply voltage	V-Ph-Hz	230V-1-50	230V-1-50	400V-3+N-50									
Fan motor absorption	A	3,1	6,7	3,5	4,9	6,3	8,3	11,3	2 x 6,3	2 x 8,3	2 x 8,3	2 x 11,3	2 x 11,3
Fan motor capacity	kW	0,2	0,75	1,5	2,2	3	4	5,5	2 x 3	2x4	2 x 4	2 x 5,5	2 x 5,5
ELECTRICAL DATA, WITH EXTERNAL PRESSURE = 300 PA													
Supply voltage	V-Ph-Hz	230V-1-50	400V-3+N-50										
Fan motor absorption	A	4,6	3,5	4,9	6,3	8,3	11,3	15	2 x 6,3	2 x 11,3	2 x 11,3	2 x 15	2 x 15
Fan motor capacity	kW	0,5	1,5	2,2	3	4	5,5	7,5	2 x 3	2 x 5,5	2 x 5,5	2 x 7,5	2 x 7,5



Assembly/location suggestions



Controls



Control combination options

L-TYPE + **1** + **3**

L-TYPE + **2** + **3**

L-TYPE + **1** + **3** + **4**

- 1 = Pintherm Connect (0629108)
- 2 = Room thermostat (0629013)
- 3 = Outlet temperature control KTR-090 U for automatic burner step control (0701050)
- 4 = Room sensor (0629086)