

# HOW TO CHOOSE YOUR HEATER



ΔT 30 °C

## INFRARED HEATING SUGGESTED HEATED AREA



Oil

Electric



kW			m <sup>2</sup>
1,5 kW	–	HALL 1500	4
2,4 kW	–	TS 3A	6
3,3 kW	–	HALL 3000	8
20 kW	XL 61	–	16
43 kW	XL 91	–	25

This chart will help you choosing the best heater for your needs. The selection can be made in two ways: you can either refer to the power required (kW column) and choose the relevant heaters or refer to the room dimension (m<sup>3</sup> column) and choose the correct heater according to level of insulation.

This calculation is intended for a temperature increase of 30 degrees: for lower or higher increases, the result will change in proportion. Example: for a temperature increase of 10 degrees it is required only 1/3 of the power indicated in the chart.

- K=0,5** Well insulated buildings (houses and offices)
- K=1,5** Moderately insulated buildings (garages)
- K=2,5** Poorly insulated buildings (old houses and cellars)
- K=3,5** Not insulated buildings (wood or corrugated metal buildings, greenhouses)

For a finer calculation you can refer to the following formula:

$$V \times \Delta T \times K / 860 = kW$$

- V** is the volume to be heated in m<sup>3</sup>
- ΔT** is the difference between the existing and desired temperature in °C
- K** is the dispersion coefficient (from 0,5 to 3,5)

- 1 kW = 860 kcal/h**
- 1 kcal/h = 3,97 Btu/h**
- 1 kW = 3412 Btu/h**
- 1 Btu/h = 0,252 kcal/h**

## AIRFLOW HEATING SUGGESTED HEATED VOLUME



Electric

Gas

Direct Oil

Indirect Oil



kW					m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>
2 kW	B 2	–	–	–	82	38	23	16
3,3 kW	B 3	–	–	–	135	63	38	27
5 kW	B 5	–	–	–	205	96	57	41
9 kW	B 9	–	–	–	369	172	103	74
10 kW	–	–	B 35	–	410	191	115	82
15 kW	B 15	–	–	–	614	287	172	123
16 kW	–	BLP 17	–	–	655	306	183	131
18 kW	B 18	–	–	–	737	344	206	147
20 kW	–	–	B 70	BV 77	819	382	229	164
22 kW	B 22	–	–	–	901	420	252	180
29 kW	–	–	B 100	–	1188	554	333	238
30 kW	RS 30	–	–	–	1229	573	344	246
33 kW	–	BLP 33	–	BV 110 BF 35	1351	631	378	270
40 kW	RS 40	–	–	–	2393	764	458	327
44 kW	–	–	B 150	–	1802	841	505	360
47 kW	–	–	–	BV 170	1925	898	539	385
48 kW	–	–	B 180	–	1966	917	550	393
53 kW	–	BLP 53	–	–	2170	1013	608	434
65 kW	–	–	B 230	–	2662	1242	745	532
73 kW	–	BLP 73	–	BF 75	2990	1395	837	598
75 kW	–	–	–	BV 310	3071	1433	860	614
81 kW	–	–	–	BV 290	3317	1548	929	663
90 kW	–	–	B 300	–	5160	1720	1032	737
103 kW	–	BLP 103	–	–	4218	1968	1181	844
111 kW	–	–	B 360	BV 400	4546	2121	1273	909
134 kW	–	–	–	BV 471 BV 500	5488	2561	1537	1098
220 kW	–	–	–	BV 691	9010	4204	2523	1802