

**Calculator for open-flued (free area in cm2)**

Room			Compartment			
kW (net)	kW (gross)	Vent free area	free area	free area	free area	free area
			high level	low level	high level	low level
			DIRECT TO OUTSIDE AIR		TO AN INTERNAL SPACE	
1	1.08	0	5	10	10	20
2	2.16	0	10	20	20	40
3	3.24	0	15	30	30	60
4	4.32	0	20	40	40	80
5	5.4	0	25	50	50	100
6	6.48	0	30	60	60	120
7	7	0	35	70	70	140
8	8.64	5	40	80	80	160
9	9.72	10	45	90	90	180
10	10.8	15	50	100	100	200
11	11.88	20	55	110	110	220
12	12.96	25	60	120	120	240
13	14.04	30	65	130	130	260
14	15.12	35	70	140	140	280
15	16.2	40	75	150	150	300
16	17.28	45	80	160	160	320
17	18.36	50	85	170	170	340
18	19.44	55	90	180	180	360
19	20.52	60	95	190	190	380
20	21.6	65	100	200	200	400
21	22.68	70	105	210	210	420
22	23.76	75	110	220	220	440
23	24.84	80	115	230	230	460
24	25.92	85	120	240	240	480
25	27	90	125	250	250	500
26	28.08	95	130	260	260	520
27	29.16	100	135	270	270	540
28	30.24	105	140	280	280	560
29	31.32	110	145	290	290	580
30	32.4	115	150	300	300	600
31	33.48	120	155	310	310	620
32	34.56	125	160	320	320	640
33	35.64	130	165	330	330	660
34	36.72	135	170	340	340	680
35	37.8	140	175	350	350	700
36	38.88	145	180	360	360	720
37	39.96	150	185	370	370	740
38	41.04	155	190	380	380	760
39	42.12	160	195	390	390	780
40	43.2	165	200	400	400	800
41	44.28	170	205	410	410	820
42	45.36	175	210	420	420	840
43	46.44	180	215	430	430	860
44	47.52	185	220	440	440	880
45	48.6	190	225	450	450	900
46	49.68	195	230	460	460	920
47	50.76	200	235	470	470	940
48	51.84	205	240	480	480	960
49	52.92	210	245	490	490	980
50	54	215	250	500	500	1000
51	55.08	220	255	510	510	1020
52	56.16	225	260	520	520	1040
53	57.24	230	265	530	530	1060
54	58.32	235	270	540	540	1080
55	59.4	240	275	550	550	1100
56	60.48	245	280	560	560	1120
57	61.56	250	285	570	570	1140
58	62.64	255	290	580	580	1160
59	63.72	260	295	590	590	1180
60	64.8	265	300	600	600	1200
61	65.88	270	305	610	610	1220
62	66.96	275	310	620	620	1240
63	68.04	280	315	630	630	1260
64	69.12	285	320	640	640	1280
65	70.2	290	325	650	650	1300
66	71.28	295	330	660	660	1320
67	72.36	300	335	670	670	1340
68	73.44	305	340	680	680	1360
69	74.52	310	345	690	690	1380
70	75.6	315	350	700	700	1400

**Calculator for room sealed (free area in cm2)**

COMPARTMENT VENTILATION					
kW (net)	kW (gross)	free area	free area	free area	free area
		high level	low level	high level	low level
		DIRECT TO OUTSIDE AIR		TO AN INTERNAL SPACE	
1	1.08	5	5	10	10
2	2.16	10	10	20	20
3	3.24	15	15	30	30
4	4.32	20	20	40	40
5	5.4	25	25	50	50
6	6.48	30	30	60	60
7	7	35	35	70	70
8	8.64	40	40	80	80
9	9.72	45	45	90	90
10	10.8	50	50	100	100
11	11.88	55	55	110	110
12	12.96	60	60	120	120
13	14.04	65	65	130	130
14	15.12	70	70	140	140
15	16.2	75	75	150	150
16	17.28	80	80	160	160
17	18.36	85	85	170	170
18	19.44	90	90	180	180
19	20.52	95	95	190	190
20	21.6	100	100	200	200
21	22.68	105	105	210	210
22	23.76	110	110	220	220
23	24.84	115	115	230	230
24	25.92	120	120	240	240
25	27	125	125	250	250
26	28.08	130	130	260	260
27	29.16	135	135	270	270
28	30.24	140	140	280	280
29	31.32	145	145	290	290
30	32.4	150	150	300	300
31	33.48	155	155	310	310
32	34.56	160	160	320	320
33	35.64	165	165	330	330
34	36.72	170	170	340	340
35	37.8	175	175	350	350
36	38.88	180	180	360	360
37	39.96	185	185	370	370
38	41.04	190	190	380	380
39	42.12	195	195	390	390
40	43.2	200	200	400	400
41	44.28	205	205	410	410
42	45.36	210	210	420	420
43	46.44	215	215	430	430
44	47.52	220	220	440	440
45	48.6	225	225	450	450
46	49.68	230	230	460	460
47	50.76	235	235	470	470
48	51.84	240	240	480	480
49	52.92	245	245	490	490
50	54	250	250	500	500
51	55.08	255	255	510	510
52	56.16	260	260	520	520
53	57.24	265	265	530	530
54	58.32	270	270	540	540
55	59.4	275	275	550	550
56	60.48	280	280	560	560
57	61.56	285	285	570	570
58	62.64	290	290	580	580
59	63.72	295	295	590	590
60	64.8	300	300	600	600
61	65.88	305	305	610	610
62	66.96	310	310	620	620
63	68.04	315	315	630	630
64	69.12	320	320	640	640
65	70.2	325	325	650	650
66	71.28	330	330	660	660
67	72.36	335	335	670	670
68	73.44	340	340	680	680
69	74.52	345	345	690	690
70	75.6	350	350	700	700