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1.- RAFFRESCAMENTO

1.1.- Radiatori

Riepil	Riepilogo dei carichi di raffrescamento della zona: Radiatori Esterni													
			Esterni	i		In	terni	Ventila	zione	9		Т	otale	
	Α	Conduzione	Solare	Inf. Lat.	Inf. sens.	Lat.	Sens.	Portata d'aria	Lat.	Sens.	Lat.	Sens.	Totale	Totale
	(m^2)	(W)	(W)	(W)	(W)	(W)	(W)	(I/s)	(W)	(W)	(W)	(W)	(W/m^2)	(W)
Carico ma	ssimo	di raffresca	mento	per loca	ıle									
141	23.7	792	27	0	0	220	473	44	637	449	857	1741	110	2598
153	3.5	261	0	0	0	0	0	0	0	0	0	261	75	261
Carico ma	ssimo	simultaneo	di raff	rescame	nto della	zona	: 21 d	i Agosto a 16	h (1	5 ora s	solare	e appa	rente)	
Radiatori	291.1							44			857	1999	9.81	2857

1.2.- VPiano

Riep	ilog	o dei ca	arich	i di r	affres	car	men	to della	ZO	na:	VP	iano	1	
			Esterni			In	terni	Ventila	zione)		Т	otale	
	Α	Conduzione	Solare	Inf. Lat.	Inf. sens.	Lat.	Sens.	Portata d'aria	Lat.	Sens.	Lat.	Sens.	Totale	Totale
	(m^2)	(W)	(W)	(W)	(W)	(W)	(W)	(l/s)	(W)	(W)	(W)	(W)	(W/m^2)	(W)
Carico r	massim	no di raffres	scament	to per lo	cale									
3	243.9	4945	4812	0	0	0	0	0	0	0	0	9757	40	9757
4	7.5	492	537	0	0	0	0	0	0	0	0	1029	137	1029
5	3.1	136	202	0	0	0	0	0	0	0	0	338	109	338
6	2.6	199	212	0	0	0	0	0	0	0	0	411	160	411
7	11.5	353	441	0	0	0	0	0	0	0	0	794	69	794
8	13.5	394	582	0	0	0	0	0	0	0	0	975	72	975
9	4.0	210	303	0	0	0	0	0	0	0	0	513	128	513
10	19.4	421	752	0	0	0	0	0	0	0	0	1173	61	1173
11	3.7	36	0	0	0	0	0	0	0	0	0	36	10	36
12	3.7	35	0	0	0	0	0	0	0	0	0	35	10	35
13	19.6	419	758	0	0	0	0	0	0	0	0	1177	60	1177
14	23.7	454	749	0	0	0	0	0	0	0	0	1203	51	1203
15	50.0	993	1560	0	0	0	0	0	0	0	0	2553	51	2553
16	43.6	788	1247	0	0	0	0	0	0	Ο	0	2035	47	2035
17	50.1	1023	1563	0	0	0	0	0	0	Ο	0	2586	52	2586
18	23.7	708	727	0	0	0	0	0	0	0	0	1435	61	1435
19	28.1	811	997	0	0	0	0	0	0	Ο	0	1808	64	1808
20	14.0	407	500	0	0	0	0	0	0	0	0	907	65	907
21	3.5	34	0	0	0	0	0	0	0	0	0	34	10	34
22	2.9	149	224	0	0	0	0	0	0	Ο	0	373	128	373
23	3.1	135	192	0	0	0	0	0	0	0	0	327	105	327
24	20.1	1444	595	0	0	0	0	0	0	0	0	2039	101	2039
25	6.2	211	0	0	0	0	0	0	0	0	0	211	34	211
26	9.9	195	467	0	0	0	0	0	0	0	0	663	67	663
27	10.0	1027	106	0	0	0	0	0	0	0	0	1133	113	1133
28	28.2	1228	835	0	0	0	0	0	0	0	0	2063	73	2063
29	13.2	1026	172	0	0	0	0	0	0	0	0	1198	91	1198
30	3.9	328	60	0	0	0	0	0	0	0	0	387	100	387
31	10.1	831	370	0	0	0	0	0	0	0	0	1201	119	1201
32	3.2	33	0	0	0	0	0	0	0	0	0	33	10	33
38	2.6	194	211	0	0	0	0	0	0	0	0	405	158	405
39	6.8	240	288	0	0	0	0	0	0	0	0	529	78	529

40 7.6	388	0	0	0	0	0	0	0	0	0	388	51	388
Carico massimo	simultan	eo di raf	ffrescam	ento dell	a zor	na: 21	di Agosto a	14h (13 ora	sola	ire appa	arente)	
VPiano 696.7							0			0	34617	49.69	34617

1.3.- UTIC

Esterni														
			Esterni			Int	terni	Ventila	zione)		To	tale	
	Α	Conduzione	Solare	Inf. Lat.	Inf. sens.	Lat.	Sens.	Portata d'aria	Lat.	Sens.	Lat.	Sens.	Totale	Totale
	(m²)	(W)	(W)	(W)	(W)	(W)	(W)	(l/s)	(W)	(W)	(W)	(W)	(W/m^2)	(W)
Carico	o mass	Stern Stern												
39	21.2	597	27	0	0	297	801	47	753	529	1049	1953	142	3003
33	80.9	2063	0	0	0	0	0	0	0	0	0	2063	25	2063
34	15.2	164	0	0	0	0	0	0	0	0	0	164	11	164
36	28.5	620	72	0	0	0	0	0	0	0	0	692	24	692
Carico	o mass	simo simulta	neo di	raffreso	amento d	ella :	zona:	21 di Agosto	a 16	n (15 d	ora so	lare ap	parente	∍)
UTIC	145.7						•	47			1049	4845	40.45	5895

1.4.- Emodinamica

Esterni														
	Sterni													
	Α	Conduzione	Solare	Inf. Lat.	Inf. sens.	Lat.	Sens.	Portata d'aria	Lat.	Sens.	Lat.	Sens.	Totale	Totale
	(m^2)	(W)	(W)	(W)	(W)	(W)	(W)	(I/s)	(W)	(W)	(W)	(W)	(W/m^2)	(W)
Carico massim	o di ra	affrescamen	to per l	ocale										
50	6.8	302	16	0	0	220	328	44	637	449	857	1094	289	1951
51	Sterni													
52	13.5	357	28	0	0	220	392	44	637	449	857	1225	154	2082
58	11.3	250	16	0	0	0	0	0	0	0	0	266	24	266
59	35.1	668	46	0	0	0	0	0	0	0	0	714	20	714
60	12.3	179	12	0	0	0	0	0	0	0	0	191	16	191
64	23.7	416	27	0	0	0	0	0	0	0	0	443	19	443
Name														
Carico massim	Sterni													
Emodinamica	164.4							132			2572	6231	53.54	8802

1.5.- CorpoBasso

Riepilogo dei carichi di raffrescamento della zona: CorpoBasso														
			Estern	i		Int	terni	Ventila	zione			To	otale	
Carico massi	` /		· ,	, ,	(VV)	(VV)	(VV)	(1/8)	(VV)	(VV)	(VV)	(VV)	(W/m²)	(VV)
81	Esterni													
82	16.2	333	24	0	0	220	384	44	637	449	857	1190	126	2047
83	17.1	299	24	0	0	47	1739	87	1255	883	1302	2945	248	4247
84	16.7	300	24	0	0	46	1717	84	1222	860	1268	2902	250	4170
85	16.7	297	24	0	0	46	1717	84	1222	860	1267	2898	250	4166
86	16.7	300	24	0	0	46	1717	84	1222	860	1267	2901	250	4169
87	25.2	438	28	0	0	69	2131	128	1849	1302	1918	3899	231	5817
88	63.2	1136	96	0	0	174	3963	320	4636	3263	4809	8458	210	13268

89	25.2	438	28	0	0	69	2131	128	1849	1302	1918	3899	231	5817
90	16.7	300	24	0	0	220	390	44	637	449	857	1163	121	2020
91	16.6	300	24	0	0	46	1717	84	1221	860	1267	2901	250	4168
92	16.7	300	24	0	0	220	390	44	637	449	857	1163	121	2020
93	16.7	318	24	0	0	46	1717	84	1222	860	1267	2920	251	4187
94	16.6	286	24	0	0	46	1718	84	1221	860	1267	2888	250	4155
95	16.6	292	24	0	0	46	1717	84	1221	860	1267	2892	250	4159
96	25.2	457	44	0	0	220	452	44	637	449	857	1401	90	2259
97	16.2	292	24	0	0	45	1695	82	1189	837	1233	2849	252	4082
98	16.6	291	24	0	0	220	390	44	637	449	857	1154	121	2011
99	33.7	588	48	0	0	93	2533	171	2474	1741	2566	4910	222	7477
100	24.7	413	12	0	0	68	2104	125	1813	1277	1881	3805	230	5687
101	17.1	277	24	0	0	47	1739	87	1255	883	1302	2924	247	4226
102	16.6	269	24	0	0	46	1716	84	1221	859	1266	2870	249	4136
104	24.7	514	59	0	0	68	2074	125	1815	1278	1884	3925	235	5809
2	16.6	293	24	0	0	46	1717	84	1222	860	1267	2895	250	4162
120	25.2	439	28	0	0	69	2138	128	1848	1301	1917	3906	231	5823
<u> </u>			cc						4.5					

Carico massimo simultaneo di raffrescamento della zona: 21 di Agosto a 16h (15 ora solare apparente)

CorpoBasso 529.2 2438 37616 76906 216.41 114522

1.6.- CorpoAlto

Riepilo	ogo	dei car	rich	idir	affres	sca	me	nto dell	a z	ona	: Co	rpoA	Alto	
		E	sterni			Int	erni	Ventila	zione			To	tale	
	Α	Conduzione	Solare	Inf. Lat.	Inf. sens.	Lat.	Sens.	Portata d'aria	Lat.	Sens.	Lat.	Sens.	Totale	Totale
	(m²)	(W)	(W)	(W)	(W)	(W)	(W)	(I/s)	(W)	(W)	(W)	(W)	(W/m ²)	(W)
Carico mas	simo di	raffrescame	ento pe	er locale										
16	20.8	407	15	0	0	73	376	23	339	239	412	1036	70	1448
19	21.1	413	27	0	0	296	799	46	751	527	1047	1767	133	2814
20	32.8	805	38	0	0	460	1241	72	1167	819	1626	2904	138	4530
16	20.8	219	27	0	0	291	787	46	740	519	1031	1553	124	2584
17	21.5	222	27	0	0	300	811	47	763	535	1063	1596	124	2659
18	21.1	221	27	0	0	296	799	46	751	527	1047	1574	124	2621
19	21.1	220	27	0	0	296	799	46	751	527	1047	1574	124	2621
20	21.2	222	27	0	0	296	800	47	752	528	1048	1577	124	2625
39	21.1	232	27	0	0	220	448	44	637	449	857	1155	95	2013
100	20.8	300	27	0	0	291	787	46	740	519	1031	1633	128	2664
101	21.3	459	27	0	0	298	804	47	756	531	1054	1822	135	2876
102	20.6	297	23	0	0	289	780	45	733	515	1022	1616	128	2638
16	19.4	236	27	0	0	272	735	43	691	485	963	1484	126	2448
17	20.1	239	27	0	0	281	760	44	714	501	995	1527	126	2523
18	19.8	238	27	0	0	277	747	43	703	493	979	1506	126	2485
19	19.8	234	27	0	0	277	748	44	703	493	980	1502	126	2482
100	19.4	340	27	0	0	272	735	43	691	485	963	1588	131	2551
118	19.6	238	27	0	0	274	741	43	696	489	971	1495	126	2465
119	44.0	413	49	0	0	617	1665	97	1565	1099	2182	3226	123	5408
16	19.6	410	27	0	0	275	742	43	697	489	972	1668	135	2639
17	21.5	384	27	0	0	300	811	47	763	535	1063	1758	131	2821
18	21.1	380	27	0	0	296	799	46	751	527	1047	1734	132	2781
19	21.1	380	27	0	0	296	799	46	751	527	1047	1734	132	2781
20	30.5	554	38	0	0	427	1154	67	1085	761	1512	2507	132	4019
100	19.6	305	27	0	0	216	638	43	625	440	841	1409	115	2250
101	21.2	378	27	0	0	297	802	47	754	529	1051	1737	131	2788
102	33.4	581	38	0	0	467	1262	73	1186	833	1654	2714	131	4367
23	16.9	317	45	0	0	220	413	44	637	449	857	1224	123	2081
24	23.7	772	27	0	0	220	469	44	637	449	857	1716	109	2573
24	23.7	175	27	0	0	220	469	44	637	449	857	1120	84	1977
48	13.2	386	21	0	0	220	380	44	637	449	857	1235	159	2092
49	18.6	399	13	0	0	130	547	20	296	208	426	1167	86	1592
103	23.6	252	27	0	0	220	473	44	637	449	857	1200	87	2058

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28 13.2 304 21 0 0 145 426 29 421 296 566 1047 122 1613 32 6.2 89 0 0 0 976 0 0 0 1057 171 1057 111 6.2 45 0 0 0 796 0 0 0 1057 171 1057 111 6.2 45 0 0 0 220 341 444 637 449 857 963 271 1820 132 6.6 150 16 0 0 220 335 444 637 449 857 963 271 1820 1336 6.6 150 16 0 0 220 394 44 637 449 857 1047 137 190 142 13.3 176 28 0 0 267 3															
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132 6.6 150 16 0 0 72 214 14 210 148 282 528 123 810 136 6.6 193 16 0 0 220 335 44 637 449 857 992 281 1850 137 13.7 -137 28 0 0 692 1701 226 1207 959 1898 2550 324 444 142 13.9 176 28 0 0 692 394 44 637 449 857 1047 137 1904 11 19.3 465 15 0 0 67 350 21 314 221 381 1050 74 1432 25 28.1 846 56 0 0 197 837 31 448 315 645 2054 96 2699 38 14.0 18															
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142 13.9 176 28 0 0 220 394 44 637 449 857 1047 137 1904 1 19.3 465 15 0 0 67 350 21 314 221 381 1050 74 1432 25 28.1 846 56 0 0 197 837 31 448 315 645 2054 96 2699 38 14.0 316 24 0 0 98 419 15 222 157 320 915 88 1235 38 14.0 181 28 0 0 28 1452 54 782 550 810 2313 309 3123 39 10.1 278 34 0 0 220 447 44 637 449 857 1511 113 2368 70 21.0 588 27 0 0 165 699 26 375 264 540 1581 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
1 19.3 465 15 0 0 67 350 21 314 221 381 1050 74 1432 25 28.1 846 56 0 0 197 837 31 448 315 645 2054 96 26999 38 14.0 316 24 0 0 98 419 15 222 157 320 915 88 1235 38 14.0 181 28 0 0 98 419 15 222 157 320 915 88 1235 38 14.0 181 28 0 0 28 155 550 810 2313 309 3123 70 21.0 588 27 0 0 165 699 26 375 264 540 1581 190 2121 74 23.3 689 27 0 0 163 696 26 371 261 534 1673 95 22															
25 28.1 846 56 0 0 197 837 31 448 315 645 2054 96 2699 38 14.0 316 24 0 0 98 419 15 222 157 320 795 79 1105 38 14.0 181 28 0 0 98 419 15 222 157 320 785 79 1105 39 10.1 278 34 0 0 28 1452 54 782 550 810 2313 309 3123 70 21.0 588 27 0 0 163 699 26 375 264 540 1581 90 2121 74 23.3 689 27 0 0 163 699 26 375 264 540 1581 90 2207 75 137 261 534															
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38 14.0 181 28 0 0 98 419 15 222 157 320 785 79 1105 39 10.1 278 34 0 0 28 1452 54 782 550 810 2313 309 3123 70 21.0 588 27 0 0 220 447 44 637 449 857 1511 1113 2368 73 23.5 591 27 0 0 163 696 26 375 264 540 1581 190 2121 74 23.3 689 27 0 0 96 407 15 218 154 534 1673 95 2207 75 13.7 439 26 0 0 290 391 44 637 449 857 1027 139 184 38 14.0 263 <td></td>															
39 10.1 278 34 0 0 28 1452 54 782 550 810 2313 309 3123 70 21.0 588 27 0 0 220 447 44 637 449 857 1511 113 2368 73 23.5 591 27 0 0 165 699 26 375 264 540 1581 90 2121 74 23.3 689 27 0 0 163 696 26 371 261 534 1673 95 2207 75 13.7 439 26 0 0 96 407 15 218 154 314 1026 98 1341 141 13.5 164 24 0 0 296 799 46 751 527 1047 1896 139 2943 143 13.9 17															
70 21.0 588 27 0 0 220 447 44 637 449 857 1511 113 2368 73 23.5 591 27 0 0 165 699 26 375 264 540 1581 90 2121 74 23.3 689 27 0 0 163 696 26 371 261 534 1673 95 2207 75 13.7 439 26 0 0 96 407 15 218 154 1026 98 1341 114 13.5 164 24 0 0 220 391 44 637 449 857 1027 139 1884 38 14.0 263 28 0 0 77 208 154 2224 1566 2301 2065 313 4365 140 21.1 542															
73 23.5 591 27 0 0 165 699 26 375 264 540 1581 90 2121 74 23.3 689 27 0 0 163 696 26 371 261 534 1673 95 2207 75 13.7 439 26 0 0 96 407 15 218 154 314 1026 98 1341 114 13.5 164 24 0 0 220 391 44 637 449 857 1027 139 1884 38 14.0 263 28 0 0 77 208 154 2224 1566 2301 2065 313 4365 140 21.1 542 27 0 0 296 799 46 751 527 1047 1896 139 2943 143 13.6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
74 23.3 689 27 0 0 163 696 26 371 261 534 1673 95 2207 75 13.7 439 26 0 0 96 407 15 218 154 314 1026 98 1341 114 13.5 164 24 0 0 220 391 44 637 449 857 1027 139 1884 38 14.0 263 28 0 0 77 208 154 2224 1566 2301 2065 313 4365 140 21.1 542 27 0 0 296 799 46 751 527 1047 1896 139 2943 143 13.9 175 28 0 0 270 389 44 637 449 857 1245 150 2102 144 12.6															
75 13.7 439 26 0 0 96 407 15 218 154 314 1026 98 1341 114 13.5 164 24 0 0 220 391 44 637 449 857 1027 139 1884 38 14.0 263 28 0 0 77 208 154 2224 1566 2301 2065 313 4365 140 21.1 542 27 0 0 296 799 46 751 527 1047 1896 139 2943 143 13.9 175 28 0 0 97 411 15 221 155 318 769 78 1087 144 14.1 368 39 0 0 220 389 44 637 449 857 1245 150 2102 144 22.6 <															
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38 14.0 263 28 0 0 77 208 154 2224 1566 2301 2065 313 4365 140 21.1 542 27 0 0 296 799 46 751 527 1047 1896 139 2943 143 13.9 175 28 0 0 97 411 15 221 155 318 769 78 1087 144 14.1 368 39 0 0 220 389 44 637 449 857 1245 150 2102 144 22.6 304 65 0 0 158 668 25 359 253 517 1289 80 1807 145 14.0 93 28 0 0 220 397 44 637 449 857 967 130 1824 1 11.7 8 0 0 0 82 350 13 186 131 268															
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143 13.9 175 28 0 0 97 411 15 221 155 318 769 78 1087 144 14.1 368 39 0 0 220 389 44 637 449 857 1245 150 2102 144 22.6 304 65 0 0 158 668 25 359 253 517 1289 80 1807 145 14.0 93 28 0 0 220 397 44 637 449 857 967 130 1824 1 11.7 8 0 0 0 82 350 13 186 131 268 489 65 758 66 23.1 721 27 0 0 220 460 44 637 449 857 1657 109 2514 108 18.4 330 31 0 0 276 523 68 1091 766 1367	140				0	0	296 79	99				1047		139	
144 14.1 368 39 0 0 220 389 44 637 449 857 1245 150 2102 144 22.6 304 65 0 0 158 668 25 359 253 517 1289 80 1807 145 14.0 93 28 0 0 220 397 44 637 449 857 967 130 1824 1 11.7 8 0 0 0 82 350 13 186 131 268 489 65 758 66 23.1 721 27 0 0 220 460 44 637 449 857 1657 109 2514 108 18.4 330 31 0 0 276 523 68 1091 766 1367 1651 164 3018 131 13.9 91 28 0 0 97 409 15 221 156 318 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>															
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1 11.7 8 0 0 0 82 350 13 186 131 268 489 65 758 66 23.1 721 27 0 0 220 460 44 637 449 857 1657 109 2514 108 18.4 330 31 0 0 276 523 68 1091 766 1367 1651 164 3018 131 13.9 91 28 0 0 97 409 15 221 156 318 684 72 1002 121 21.2 608 27 0 0 220 448 44 637 449 857 1531 113 2388 121 21.4 382 27 0 0 300 810 47 761 534 1061 1753 131 2814 123 19.0 136 31 0 0 209 629 42 605 426 813 <	144	22.6	304	65	0	0	158 6	68	25	359	253	517	1289	80	1807
66 23.1 721 27 0 0 220 460 44 637 449 857 1657 109 2514 108 18.4 330 31 0 0 276 523 68 1091 766 1367 1651 164 3018 131 13.9 91 28 0 0 97 409 15 221 156 318 684 72 1002 121 21.2 608 27 0 0 220 448 44 637 449 857 1531 113 2388 121 21.4 382 27 0 0 300 810 47 761 534 1061 1753 131 2814 123 19.0 136 31 0 0 209 629 42 605 426 813 1221 107 2035 130 5.2 84 0 0 78 146 19 307 215 385 445	145	14.0	93	28	0	0	220 39	97	44	637	449	857	967	130	1824
108 18.4 330 31 0 0 276 523 68 1091 766 1367 1651 164 3018 131 13.9 91 28 0 0 97 409 15 221 156 318 684 72 1002 121 21.2 608 27 0 0 220 448 44 637 449 857 1531 113 2388 121 21.4 382 27 0 0 300 810 47 761 534 1061 1753 131 2814 123 19.0 136 31 0 0 209 629 42 605 426 813 1221 107 2035 130 5.2 84 0 0 0 78 146 19 307 215 385 445 160 830 137 19.8 280 28 0 0 277 747 43 703 493 979	1	11.7	8	0	0	0	82 3	50	13	186	131	268	489	65	758
131 13.9 91 28 0 0 97 409 15 221 156 318 684 72 1002 121 21.2 608 27 0 0 220 448 44 637 449 857 1531 113 2388 121 21.4 382 27 0 0 300 810 47 761 534 1061 1753 131 2814 123 19.0 136 31 0 0 209 629 42 605 426 813 1221 107 2035 130 5.2 84 0 0 0 78 146 19 307 215 385 445 160 830 137 19.8 280 28 0 0 277 747 43 703 493 979 1549 128 2528 139 19.8 288 31 0 0 277 747 43 702 493 979	66	23.1	721	27	0	0	220 4	60	44	637	449	857	1657	109	
121 21.2 608 27 0 0 220 448 44 637 449 857 1531 113 2388 121 21.4 382 27 0 0 300 810 47 761 534 1061 1753 131 2814 123 19.0 136 31 0 0 209 629 42 605 426 813 1221 107 2035 130 5.2 84 0 0 0 78 146 19 307 215 385 445 160 830 137 19.8 280 28 0 0 277 747 43 703 493 979 1549 128 2528 138 19.8 247 28 0 0 277 747 43 702 493 979 1559 128 2538	108	18.4	330	31	0	0	276 5	23	68	1091	766	1367	1651	164	3018
121 21.4 382 27 0 0 300 810 47 761 534 1061 1753 131 2814 123 19.0 136 31 0 0 209 629 42 605 426 813 1221 107 2035 130 5.2 84 0 0 0 78 146 19 307 215 385 445 160 830 137 19.8 280 28 0 0 277 747 43 703 493 979 1549 128 2528 139 19.8 288 31 0 0 277 747 43 702 493 979 1559 128 2538	131	13.9	91	28	0	0	97 40	09	15	221	156	318	684	72	1002
123 19.0 136 31 0 0 209 629 42 605 426 813 1221 107 2035 130 5.2 84 0 0 0 78 146 19 307 215 385 445 160 830 137 19.8 280 28 0 0 277 747 43 703 493 979 1549 128 2528 138 19.8 247 28 0 0 277 748 44 703 493 980 1516 126 2495 139 19.8 288 31 0 0 277 747 43 702 493 979 1559 128 2538	121	21.2	608	27	0	0	220 4	48	44	637	449	857	1531	113	2388
130 5.2 84 0 0 0 78 146 19 307 215 385 445 160 830 137 19.8 280 28 0 0 277 747 43 703 493 979 1549 128 2528 138 19.8 247 28 0 0 277 748 44 703 493 980 1516 126 2495 139 19.8 288 31 0 0 277 747 43 702 493 979 1559 128 2538	121	21.4	382	27	0	0	300 8	10	47	761	534	1061	1753	131	2814
137 19.8 280 28 0 0 277 747 43 703 493 979 1549 128 2528 138 19.8 247 28 0 0 277 748 44 703 493 980 1516 126 2495 139 19.8 288 31 0 0 277 747 43 702 493 979 1559 128 2538	123	19.0	136	31	0	0	209 6	29	42	605	426	813	1221	107	2035
138 19.8 247 28 0 0 277 748 44 703 493 980 1516 126 2495 139 19.8 288 31 0 0 277 747 43 702 493 979 1559 128 2538	130	5.2	84	0	0	0	78 1	46	19	307	215	385	445	160	830
139 19.8 288 31 0 0 277 747 43 702 493 979 1559 128 2538	137	19.8	280	28	0	0			43			979	1549	128	
		19.8				0			44			980	1516	126	
140 19.8 260 32 0 0 277 748 44 703 494 980 1534 127 2514															
	140	19.8	260	32	0	0	277 7	48	44	703	494	980	1534	127	2514

151	10.3	231	19	0	0	36	184	11	168	118	204	552	73	755
153	37.9	568	59	0	0	569	1089	139	2245	1576	2814	3292	161	6106
Carico mass	simo simi	ultaneo d	i raffreso	cament	o della zo	na: 2	1 di Aç	gosto a 16h	(15 ora	solar	e appar	ente)		
CorpoAlto 2	2352.2							4237			76650	141474	92.73	218124
Abbrevia	zioni													
		A Area												
Cor	nduzion	e Carico	di riscalda	amento	da apporti į	oer co	nduzio	ne						
	Solar	e Carico	di riscalda	amento	da apporti s	solari								
	Inf. La	t. Infiltra	zione late	nte										

2.- RISCALDAMENTO

Inf. sens. Infiltrazione sensibile
Lat. Latente
Sens. Sensibile

2.1.- Radiatori

Riepilogo de	ei carichi (di riscalo	lamento (della zor	na: Radiato	ori
	А	$\Phi_{\scriptscriptstyle extsf{T}}$	Φ_{ee}	$\Phi_{ extsf{RH}}$	$\Phi_{\sf HL,S}$	$\Phi_{\scriptscriptstyle{HL}}$
	(m²)	(W)	(W)	(W)	(W)	(W)
Carico termico di	progetto di ri	iscaldamento	o per locale			-
109	10.1	480	0	5	485	485
110	10.0	368	0	5	373	373
109	10.1	480	0	5	485	485
110	10.0	357	0	5	362	362
141	23.7	676	1053	12	1741	1741
2	3.7	145	0	2	147	147
3	2.2	100	0	1	102	102
4	2.2	89	0	1	90	90
5	2.2	91	0	1	92	92
6	2.2	100	0	1	102	102
7	2.2	100	0	1	102	102
11	3.5	123	0	2	125	125
12	2.9	153	0	1	154	154
13	2.6	158	0	1	160	160
14	13.7	417	0	7	424	424
15	3.9	193	0	2	195	195
2	2.2	88	0	1	89	89
3	2.2	88	0	1	89	89
4	2.2	88	0	1	89	89
5	2.2	88	Ο	1	89	89
6	2.2	88	0	1	89	89
7	2.2	88	0	1	89	89
8	2.2	97	0	1	98	98
9	2.2	97	Ο	1	98	98
10	2.2	87	0	1	88	88
11	3.5	80	0	2	82	82

	_				_	_
12	2.9	132	0	1	134	134
13	2.6	128	0	1	129	129
15	3.9	193	0	2	195	195
30	6.6	199	0	3	202	202
40	3.9	300	0	2	302	302
42	2.4	169	0	1	170	170
44	2.6	206	0	1	207	207
79	3.1	240	0	2	242	242
112	13.7	373	0	7	380	380
115	3.1	153	0	2	155	155
116	2.6	132	0	1	133	133
117	3.1	117	0	2	119	119
2	3.5	111	0	2	112	112
3	3.5	110	0	2	112	112
4	3.5	115	0	2	116	116
5	3.5	115	0	2	116	116
6	3.5	112	0	2	114	114
7	3.5	146	0	2	148	148
8	3.5	115	0	2	116	116
10	3.5	128	0	2	130	130
13	2.6	162	0	1	163	163
15	3.9	193	0	2	195	195
30	6.6	281	0	3	284	284
116	4.3	198	0	2	200	200
2	3.3	126	0	2	128	128
3	3.3	115	0	2	116	116
4	2.2	96	0	1	97	97
5	2.2	96	0	1	97	97
6	2.2	96	0	1	97	97
7	2.2	96	0	1	97	97
8	2.2	96	0	1	97	97
9	2.2	96	0	1	97	97
10	2.2	96	0	1	97	97
11	3.5	88	0	2	90	90
12	2.9	139	0	1	140	140
13	5.8	301	0	3	304	304
15	3.9	211	0	2	213	213
116	2.6	127	0	1	129	129
117	3.1	112	0	2	113	113
43	2.3	183	0	1	184	184
56	2.2	159	0	1	160	160
122	2.2	111	0	1	112	112
141	3.5	140	0	2	142	142
146	3.5	136	0	2	138	138
147	3.5	118	0	2	120	120
152	2.1	107	0	1	108	108
153	3.5	216	0	2	218	218

Carico termico di progetto di riscaldamento per la zona

Radiatori 291.1 13306 13306

2.2.- VPiano

Riepilogo d	ei carichi	di riscalo	lamento	della zo	na: VPiano	
	А	$oldsymbol{\Phi}_{ extsf{T}}$	Φ_{ee}	$\Phi_{ extsf{RH}}$	$\Phi_{\sf HL,S}$	$\Phi_{\sf HL}$
	(m^2)	(W)	(W)	(W)	(W)	(W)
Carico termico d	i progetto di	riscaldament	o per locale			
3	243.9	9640	0	122	9762	9762
4	7.5	960	0	4	964	964
5	3.1	242	0	2	243	243
6	2.6	439	0	1	440	440
7	11.5	707	0	6	713	713
8	13.5	837	0	7	843	843
9	4.0	419	0	2	421	421
10	19.4	825	0	10	834	834
11	3.7	32	0	2	34	34
12	3.7	32	0	2	34	34
13	19.6	822	0	10	832	832
14	23.7	861	0	12	873	873
15	50.0	1860	О	25	1885	1885
16	43.6	1470	0	22	1492	1492
17	50.1	1820	0	25	1845	1845
18	23.7	1474	0	12	1486	1486
19	28.1	1546	0	14	1560	1560
20	14.0	763	0	7	770	770
21	3.5	28	0	2	29	29
22	2.9	324	0	1	325	325
23	3.1	242	0	2	244	244
24	20.1	2531	0	10	2541	2541
25	6.2	326	0	3	329	329
26	9.9	756	0	5	761	761
27	10.0	1517	0	5	1522	1522
28	28.2	1909	0	14	1923	1923
29	13.2	1873	0	7	1880	1880
30	3.9	630	0	2	632	632
31	10.1	1658	0	5	1663	1663
32	3.2	28	0	2	29	29
38	2.6	438	0	1	440	440
39	6.8	442	0	3	446	446
40	7.6	560	0	4	563	563
Carico termico d	i progetto di	riscaldament	o per la zon	а		
VPiano	696.7				38358	38358

2.3.- UTIC

Riepilogo dei	carich	ni di riscalo	damento	della zona	a: UTIC	
	А	$\Phi_{\scriptscriptstyle extsf{T}}$	Φ_{ee}	$\Phi_{ extsf{RH}}$	$\Phi_{\sf HL,S}$	$\Phi_{\sf HL}$

	(m²)	(W)	(W)	(W)	(W)	(W)		
Carico termico	Carico termico di progetto di riscaldamento per locale							
39	21.2	334	1056	11	1401	1401		
33	80.9	1160	0	40	1200	1200		
34	15.2	7	0	8	15	15		
36	28.5	715	0	14	729	729		
Carico termico	o di progetto d	i riscaldament	o per la zona					
UTIC	145.7				3346	3346		

2.4.- Emodinamica

Riepilogo dei c	arichi di	riscaldan	nento del	la zona:	Emodina	amica
	А	$\Phi_{\scriptscriptstyle extsf{T}}$	Φ_{\lor}	$\Phi_{ extsf{RH}}$	$\Phi_{\sf HL,S}$	$\Phi_{\scriptscriptstyle{HL}}$
	(m^2)	(W)	(W)	(W)	(W)	(W)
Carico termico di pro	getto di risca	Idamento pe	r locale			
50	6.8	450	1053	3	1507	1507
51	13.5	733	1053	7	1793	1793
52	13.5	686	1053	7	1747	1747
58	11.3	531	0	6	537	537
59	35.1	1219	0	18	1237	1237
60	12.3	356	0	6	362	362
64	23.7	784	0	12	796	796
65	48.2	1644	0	24	1668	1668
Carico termico di pro	getto di risca	Idamento pe	r la zona			-
Emodinamica	164.4		_	_	9645	9645

2.5.- CorpoBasso

Riepilogo dei	carichi d	i riscalda	mento d	ella zon	a: CorpoB	asso
	A (m²)	$\Phi_{\scriptscriptstyle op}$ (W)	Φ_{ee} (W)	$\Phi_{ extsf{RH}}$ (W)	$\Phi_{HL,S}$ (W)	$\Phi_{\scriptscriptstyle{HL}} \ (W)$
Carico termico di pr	ogetto di risc	caldamento p				<u> </u>
81	15.7	1366	1800	8	3174	3174
82	16.2	871	1053	8	1932	1932
83	17.1	729	1964	9	2701	2701
84	16.7	684	1913	8	2605	2605
85	16.7	722	1912	8	2642	2642
86	16.7	712	1912	8	2633	2633
87	25.2	1039	2894	13	3946	3946
88	63.2	2760	7256	32	10047	10047
89	25.2	1011	2894	13	3917	3917
90	16.7	832	1053	8	1894	1894
91	16.6	655	1912	8	2575	2575
92	16.7	832	1053	8	1894	1894
93	16.7	756	1912	8	2676	2676
94	16.6	720	1912	8	2640	2640

95	16.6	683	1911	8	2603	2603
96	25.2	1239	1053	13	2305	2305
97	16.2	696	1860	8	2565	2565
98	16.6	803	1053	8	1864	1864
99	33.7	1411	3872	17	5300	5300
100	24.7	1026	2838	12	3877	3877
101	17.1	729	1964	9	2701	2701
102	16.6	712	1911	8	2631	2631
104	24.7	1251	2842	12	4105	4105
2	16.6	712	1912	8	2633	2633
120	25.2	1039	2892	13	3944	3944
Carico termico di pr	ogetto di ris	caldamento p	er la zona			
CorpoBasso	529.2				79803	79803

2.6.- CorpoAlto

Riepilogo dei	carichi d	di riscald	amento	della zo	na: CorpoA	Alto
	А	$\Phi_{\scriptscriptstyle au}$	Φ_{ee}	$\Phi_{ extsf{RH}}$	$\Phi_{\sf HL,S}$	$\Phi_{ ext{ t HL}}$
	(m^2)	(W)	(W)	(W)	(W)	(W)
Carico termico di p	rogetto di ri	scaldamento	per locale			
16	20.8	250	519	10	779	779
17	21.5	437	0	11	448	448
18	21.1	427	0	11	438	438
19	21.1	247	1054	11	1311	1311
20	32.8	513	1637	16	2166	2166
16	20.8	209	1038	10	1257	1257
17	21.5	174	1070	11	1254	1254
18	21.1	173	1054	11	1238	1238
19	21.1	210	1054	11	1274	1274
20	21.2	213	1055	11	1278	1278
39	21.1	427	1053	11	1491	1491
100	20.8	381	1038	10	1429	1429
101	21.3	276	1061	11	1347	1347
102	20.6	228	1029	10	1268	1268
16	19.4	213	970	10	1193	1193
17	20.1	215	1002	10	1227	1227
18	19.8	214	986	10	1210	1210
19	19.8	213	986	10	1209	1209
100	19.4	416	970	10	1395	1395
118	19.6	217	977	10	1203	1203
119	44.0	395	2196	22	2613	2613
16	19.6	298	978	10	1286	1286
17	21.5	274	1070	11	1354	1354
18	21.1	272	1054	11	1336	1336
19	21.1	272	1054	11	1336	1336
20	30.5	397	1522	15	1935	1935
100	19.6	289	923	10	1222	1222

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101	21.2	271	1058	11	1340	1340
102	33.4	401	1664	17	2083	2083
23	16.9	439	1053	8	1501	1501
24	23.7	1212	1053	12	2277	2277
24	23.7	403	1053	12	1468	1468
48	13.2	845	1053	7	1905	1905
49	18.6	764	463	9	1236	1236
103	23.6	384	1053	12	1449	1449
104	23.7	337	1053	12	1402	1402
105	13.9	314	1053	7	1374	1374
106	13.9	157	346	7	509	509
125	16.9	121	793	8	923	923
24	23.7	509	1053	12	1574	1574
104	23.7	435	1053	12	1500	1500
studiomed	14.1	728	351	7	1086	1086
27	10.1	410	1224	5	1639	1639
109	10.1	431	1186	5	1622	1622
110	10.0	191	471	5	668	668
21	138.1	2775	0	69	2844	2844
22	22.7	267	0	11	279	279
21	127.5	1720	0	64	1784	1784
22	22.7	200	0	11	211	211
55	84.4	3481	0	42	3524	3524
71	2.6	102	0	1	104	104
107	20.9	29	0	10	40	40
21	85.3	1181	0	43	1224	1224
22	22.7	200	0	43 11	211	211
133	53.9	608	0	27	635	635
			0	62	2078	2078
21 22	123.8	2016				
	22.7	263	0	11	274	274
107	24.9	122	0	12	134	134
28	13.2	346	621	7	973	973
111	6.2	28	154	3	186	186
82	6.7	185	1053	3	1241	1241
132	6.6	122	310	3	435	435
136	6.6	241	1053	3	1297	1297
142	13.9	327	1053	7	1388	1388
1	19.3	458	480	10	947	947
25	28.1	1416	701	14	2131	2131
38	14.0	422	348	7	777	777
38	14.0	165	348	7	520	520
39	10.1	644	1224	5	1873	1873
70	21.0	1017	1053	10	2080	2080
73	23.5	955	587	12	1554	1554
74	23.3	1113	581	12	1706	1706
75	13.7	736	342	7	1084	1084
114	13.5	321	1053	7	1381	1381
38	14.0	334	3676	7	4017	4017
140	21.1	313	1054	11	1378	1378

143	13.9	176	346	7	528	528
144	14.1	648	1053	7	1708	1708
144	22.6	590	563	11	1164	1164
145	14.0	265	1053	7	1325	1325
1	11.7	29	292	6	326	326
66	23.1	1146	1053	12	2211	2211
108	18.4	294	1531	9	1835	1835
131	13.9	111	346	7	464	464
121	21.2	1002	1053	11	2066	2066
121	21.4	281	1068	11	1359	1359
123	19.0	89	893	9	991	991
130	5.2	-14	431	3	419	419
137	19.8	182	986	10	1178	1178
138	19.8	216	986	10	1212	1212
139	19.8	260	985	10	1255	1255
140	19.8	231	987	10	1227	1227
149	2.9	144	0	1	146	146
151	10.3	152	256	5	413	413
153	37.9	513	3150	19	3682	3682
Carico termico di	progetto di ri	scaldamento	per la zona			

Carico termico di	progetto di riscaldamento per la zona	

CorpoAlto	2352.2	122876	122876

Abbreviazioni

A Area

 F_T Dispersione termica di progetto per trasmissione

 F_v Dispersione termica di progetto per ventilazione e infiltrazione

F_{RH} Capacità termica di ripresa riscaldamento

F_{HL,S} Carico termico simultaneo di porgetto

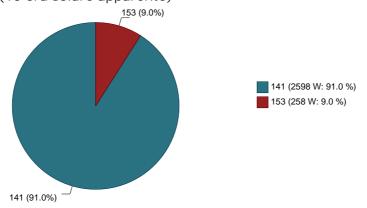
F_{HL} Carico termico di progetto

3.- GRAFICI

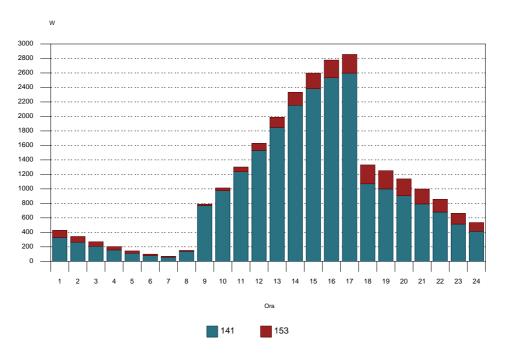
3.1.- Radiatori

Carico massimo simultaneo di raffrescamento (2857 W)

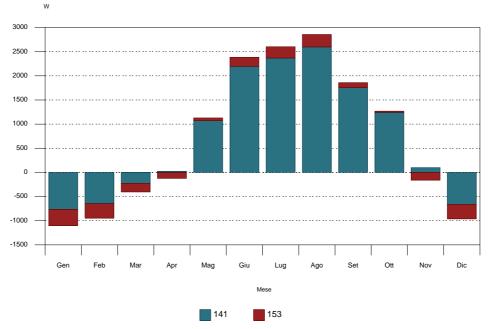
21 di Agosto a 16h (15 ora solare apparente)



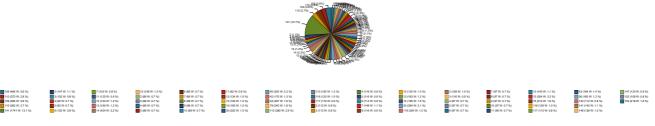
Evoluzione oraria del carico massimo simultaneo di raffrescamento (21 de Agosto)



Evoluzione annuale del carico massimo di raffrescamento



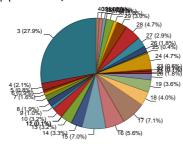
Carico massimo di riscaldamento (13306 W)



3.2.- VPiano

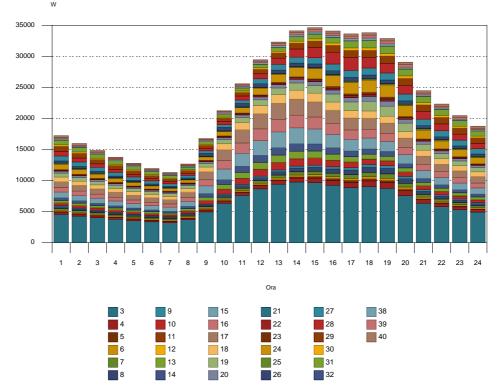
Carico massimo simultaneo di raffrescamento (34617 W)

21 di Agosto a 14h (13 ora solare apparente)

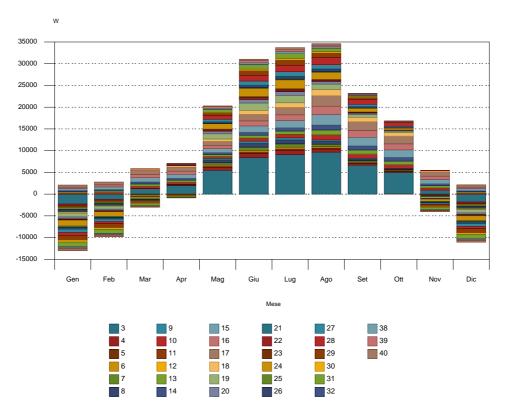




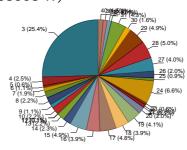
Evoluzione oraria del carico massimo simultaneo di raffrescamento (21 de Agosto)



Evoluzione annuale del carico massimo di raffrescamento



Carico massimo di riscaldamento (38358 W)











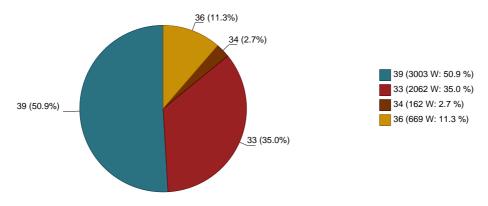




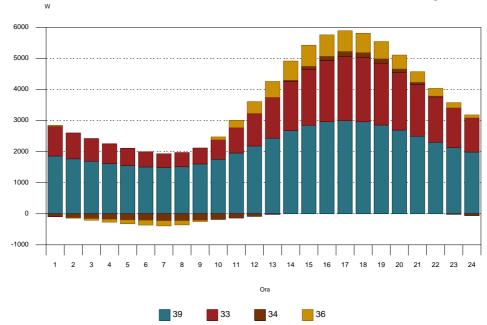


3.3.- UTIC

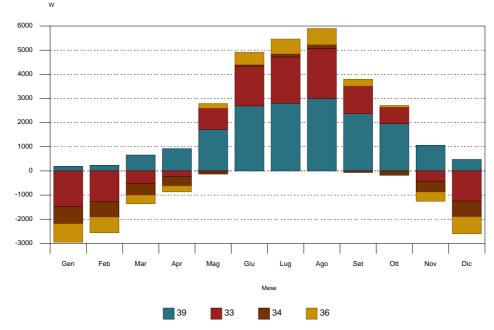
Carico massimo simultaneo di raffrescamento (5895 W) 21 di Agosto a 16h (15 ora solare apparente)



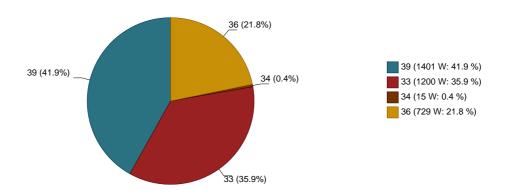
Evoluzione oraria del carico massimo simultaneo di raffrescamento (21 de Agosto)



Evoluzione annuale del carico massimo di raffrescamento



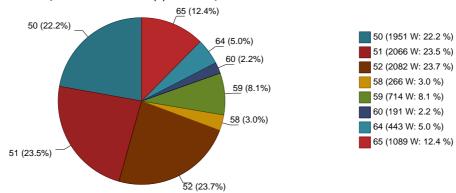
Carico massimo di riscaldamento (3346 W)



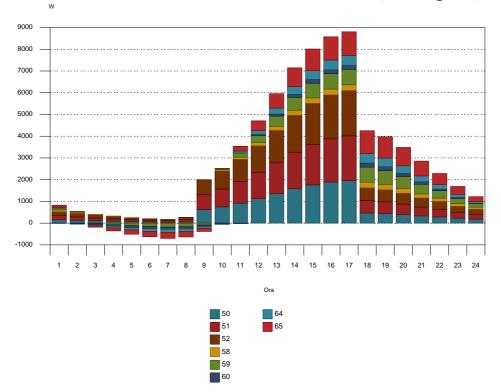
3.4.- Emodinamica

Carico massimo simultaneo di raffrescamento (8802 W)

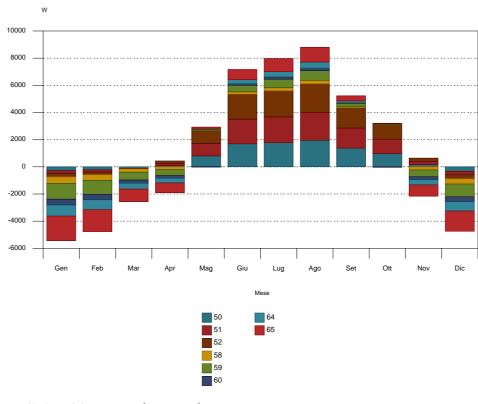
21 di Agosto a 16h (15 ora solare apparente)



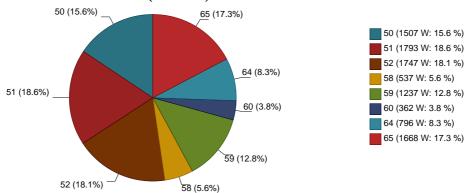
Evoluzione oraria del carico massimo simultaneo di raffrescamento (21 de Agosto)



Evoluzione annuale del carico massimo di raffrescamento

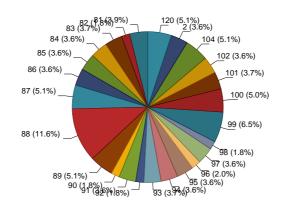






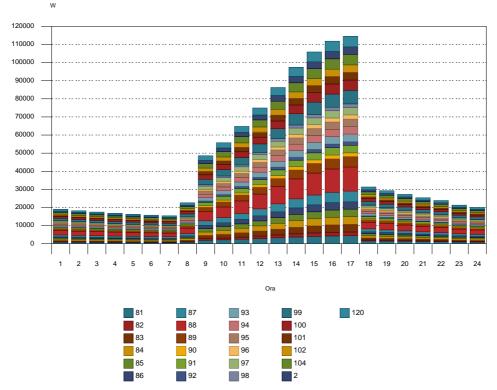
3.5.- CorpoBasso

Carico massimo simultaneo di raffrescamento (114522 W) 21 di Agosto a 16h (15 ora solare apparente)

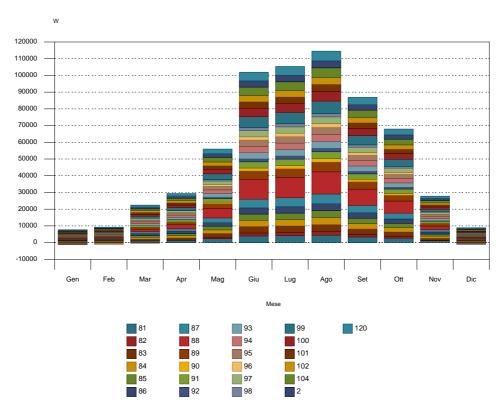




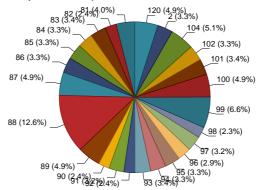
Evoluzione oraria del carico massimo simultaneo di raffrescamento (21 de Agosto)



Evoluzione annuale del carico massimo di raffrescamento



Carico massimo di riscaldamento (79803 W)





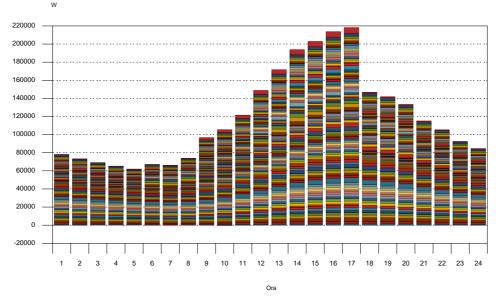
3.6.- CorpoAlto

Carico massimo simultaneo di raffrescamento (218124 W) 21 di Agosto a 16h (15 ora solare apparente)



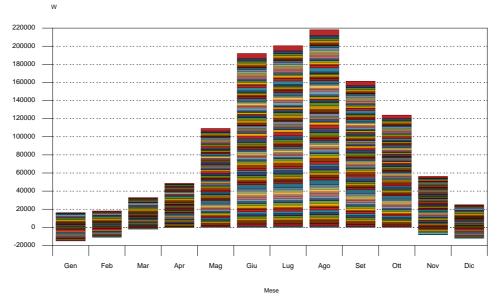


Evoluzione oraria del carico massimo simultaneo di raffrescamento (21 de Agosto)





Evoluzione annuale del carico massimo di raffrescamento





Carico massimo di riscaldamento (122876 W)



