Es 1	Rankine
Tmin °C	45
Pmax bar	150
Tmax °C	500
etaPpompa	92%
etaTurb	100%

	T °C	P kPa	x	h	s
1=LiqSat	45	9.593	0	188.5	0.6387
2	45	15000	nd (<0)	**203.5**	"
2re				204.8	
5	500	15000	nd (>1)	3264.5	6.3143
6	45	9.593	**0.754**	**1994.4**	6.3143
6re			**0.754**	1994.4	6.3
VapSat	45	9.593	1	2583.2	8.1648

	ideale	reale
Qin	3061.03	3059.72
L_nu_Tid	1255.10	1256.24
eta1	**41.0%**	**41.1%**
etaC	58.9%	58.9%
eta2	**69.7%**	**69.8%**

Esercizio 2	flusso	punti 4		in	out-isoS	politropica
R, Cp	286.69	1003.414	T °C	20	236.2	171.4
deltaT/delt	70%		T K	293	509.2	444.4
l, L' in	201582	1500	P_ass Pa	101325	701325	701325
delta h, H	151887	**1130**	ro kg/m3	1.206		**5.505**
m'	**0.0074**		v	0.829016		0.181651
q, Q' in	-49695	**-370**	n			1.274
delta _s, S	-136.7	**-1.02**				
amb	169.6	1.3				
tot	32.9	0.2				

es 3	condizionatore			
		K	°C	
Q'inf W	6000	Tsup	331	58
COPid	**5.49**	deltaTcond		24
COPre	**3.29**	T esterno		34
Lin	**1821**	deltaT	51	
Q'sup W	**7821**	T locali		25
euro/kWh	0.15	deltaTevap		18
		Tinf	280	7

Es 4	aria umida					
	1	delta 12	2	liq_ev	3	
T	6		50.0	10	**38.9**	
UR	75%				20%	
Psat	943.2				7005.3	
Pvap	707.4	=	707.4		1415	
x	0.0044	=	0.0044	0.0044	0.0088	
h	17.0	44.6	**61.6**	0.2	61.8	

Tsat°C	Psat_Pa
INTERPOLATORE DE	
5	872.1
6.0	943.2
10	1227.6
0.01	611.3
5	872.1

Es 5	cemento	5pt			
q	kCal/kg	200	Q'	W/m2	217.9
tempo	giorni	20	h		15.0
q'	W/kg	0.968519	deltaT_aria		**14.5**

ro_cemento		1800	lambda_legno		0.12
lambda_cemento		1.2	spessore legno		0.03
Cp cemento		880	delta_T_legno		**54.5**
q'	W/m3	1743.333	delta_T cemento		**11.35**
semi-spessorse		0.125	q_aTmax	kJ	71
A	m2	1	q_20gg	kJ	800

Es 6	Parete semi-infinita					
spessore	0.5	Bi	2.173913		sup	5cm
ro	2400	tempo s	3600	Prof L	0	0.05
Cp	800	Fo	0.0173	csi	0	0.380693
lambda	2.3			teta	0.6	0.12
alfa	1.2E-06	To	20	T(L)	158	47.6
h	10	Tinf	250			

es 7		Aletta					
Tfilm	75	w m/s	10	lambda_al	236	Tambiente	25
ro_aria	1	L_Re	0.300	perim	0.61	Tbase	120
Cp	1007	Spessore	0.005	Area	0.0015	Tsicura	35
lambda	0.0268	**Re**	**144231**	m	5.89	**Lsicura**	**0.382**
mu	2.08E-05	Nu	225.1	1/m	0.170	efficacia	69.1
Pr	0.711	**h**	**20.1**	L_inf	**0.849**	Q'_base>fi	**198.0**

Es 8	irragg					
hcam	0.8		T K		A m2	eps
Lcam	1.2	Fittizia			0.96	
Prof_cam	0.6	Cam	423		3.36	0.85
Tcam °C	150	Sta	293		99.04	0.85
L1_stanza	5					
L2_stanza	5					
H_stanza	2.5	**F_cs**		**0.286**	F_sc	0.009693
Area stanz	100	**Q'**		**1275**		
Tstanza_°(	20					

es 9	condotto		
Diam	0.24	T	12
P m	0.7536	ro	1.240
Area	0.045216	m'	0.2243
w	4	Cp	1005
h	8	NTUreq	0.288
		L	**10.76**