

Es 1 cemento 5pt					
q	kCal/kg	300	V	m3	0.3
	kJ/kg	1255.2	Q'	W/m2	130.8
tempo	giorni	30	h		15.0
q'	W/kg	0.484	deltaT_aria		8.7
ro_cemento		1800	lambda_legno		0.12
lambda_cemento		1.2	spessore legno		0.03
Cp cemento		880	delta_T_legno		32.7
q'	W/m3	871.7	delta_T cemento		8.17
semi-spessore		0.150	q_aTmax	kJ/kg	44
A	m2	1	q_30gg	kJ/kg	1255.2

Es 2 irraggiamento					
	forno	pietra			
area	1.26	0.1413	F12		1.000
T	240	20	Q'		392.7471
	5.13	2.93			
eps	0.9	0.8			

Es 3 Q, L					
Mm	29		1	2	3
R	286.69	v	1	1	0.33 ?
Cp	1003.41	P bar	1	1.587	7.39
Cv	716.72	T °C	25	200	461
m [kg]	1.0000	T K	298	473	734
	1.16	w [m/s]	0	0	0
	1.2	deltaU J	125426.7	187081.5	
		deltaH J	175597.4		
		Lin [J]	0.0	187081.5	
		Qin [J]	125426.7		

Es 4 Rankine									
			T °C	P kPa	x	h	s		
Tmin °C	40	1=LiqSat	40	7.384	0	167.6	0.5725	Qin	3253.78
Pmax bar	160	2	40	16000	nd (<0)	183.6	"	L_nu_Tid	1404.00
Tmax °C	550	2re				183.6		eta1	43.1%
etaPpompa	1	5	550	16000	nd (>1)	3437.4	6.4787	etaC	62.0%
etaTurb	1	6	40	7.384	0.769	2017.3	6.4787	eta2	69.6%
		6re			0.769	2017.3			69.8%
		VapSat	40	7.384	1	2574.3	8.257		

Es 5 Ciclo Otto									
				P bar	T °C	T K			
P1 rel	-0.4	R	286.7	1	0.6	60	333	eta1	0.62
rapp_comp	11	Cv	716.7241	2	17.2	596	869	etaC	0.88
Q kJ/kg	1400	Cp	1003.4	3	55.9	2549	2822	eta2	0.70
		gamma	1.4	4	1.95	809	1082		

Es 6 condizionatore					
		K	°C		
Q'inf W	12000	Tsup	329	56	
COPid	5.58	deltaTcond		22	
COPre	3.35	T esterno		34	
Lin W	3584	deltaT	50		

Q'sup W	15584	T locali	23
euro/kWh	0.20	deltaTevap	17
Costo 12h	8.60	Tinf	279 6

Es 7	aria umida evapora				
	1	delta 12	2	evapora	3
T °C	5		50.0	15.0	39.2
UR	80%				20%
Psat	872.1				7090.6
Pvap	697.7		697.7		1395
x	0.0043		0.0043	0.0044	0.0087
h kJ/kg_as	15.9	45.6	61.4	0.3	61.7

Es 8	NTU+Moody				
L1 m	0.2	T *C	12	w	3 L m 34.56
L2 m	0.4	ro kg/m3	1.240	h	5 Re 55.1
P m	1.2	Cp	1005	m'	0.2976 ro w^2/2 5.6
Area m2	0.08	mi	0.018	Q' W	1795 lambda 1.161
Diam m	0.267	Tamb °C	24	NTUreq	0.693 deltaP Pa 840