

1 3p

2		3p	
L1	0.2 T1		293
L2	0.1 T3		373
L3	0.3 eps1		0.8
L23	0.4 eps3		0.9
D12	0.223607 Q' 13		-24.45
D1-23	0.447214		
F1-2	0.190983		
F1-23	0.381966		
F1-3	0.190983		

4 6p

Lpar	0.5	
Lperp	1	
aree	1	
spessore	0.02	
Tlastra	200	
Tamb	20	
Tfilm	383	
ro	0.92	
Cp	1010	
lambda	0.031	
mi	2.19E-05	
Pr	0.704	
w m/s	10	
Re	210046	
Nu	270.7	
h	16.8	
Biot	0.00146	
tau	2895.2	48.25326
tempo s	5187	
tempo min	86.5	

5 4p

	IS1	IS2
h_int	2000	2000
r_int	0.03	0.03
r_est	0.035	0.035
r_max	0.055	0.075
RconvInt	0.002654	0.0026539
Rtubo	0.000409	0.0004091
Ris	19.45	16.40
Rconv	0.362	0.265
Rtot	19.8	16.7
Q'	3.53	4.20
deltaTconv	0.009	0.011
deltaTtubo	0.001	0.002
deltaTis	68.71	68.88
deltaTconv	1.28	1.11
deltaTtot	70.00	70.00

7 5p

	T°C	T K	P
1	30	303	1.01
2id	341.5	614.5	12
diffT12id/re	311.5	366.5	
2re	396.5	669.5	12
3	1200	1473	12
4id	453.3	726.3	1.01
diffT34id/re	746.7	634.7	
4re	565.3	838.3	1.01
eta comp	0.85	0.85	1
ln out	269.5		
P	150000		
m'	556.5		

3 6p

A	m2	0.12
w	m/s	4
T	1	2
Psat	3599.8	1705
Pvap	2339.87	1705
UR	65%	100%
Pair		99619
ro as		1.207
x	0.0147	0.0106
h	64.6	42.0
m'	kg/s	0.579134
Q'	kW	-12.96
condensa	kg/s	0.00235
	kg/h	8.46

6 3p

m_birra	0.5	0.5
Cp_birra	4184	4184
T1 birra	5	278
H1 birra	10460	581576
m vetro	0.3	0.3
Cp vetro	840	840
T1 vetro	25	298
H1 vetro	6300	75096
Htot	16760	656672
Tfin	7.150	280.2
deltaSbirra		16.118
deltaSvetro		-15.565
deltaStot		0.553

8 3p

Qin_inf	3000
Tloc	25
deltaTev	15
Test	33
deltaTcond	24
Tmax	57
Tmin	10
deltaT	47
COPid	6.02
COP re	3.61
Qout_sup	3830
Lin	830

Es R2 tutto

1	3	
2	3	
3	6	6
4	6	6
5	4	4
6		3
7		5
8		3
tot	22	27
	11	13.5
corretto	18.0	18.0