

Appendix C

Table C1. Equipment list and sizing parameter

Compressor							
Number	Equipment	Type	Material	Pressure	Unit	Heat Duty	Unit
C-101	Compressor	Compressor-Motor	CarbonSteel	38	bar	723.28	kW
Direct Fired Heater							
Number	Equipment	Type	Material	Pressure	Unit	Heat Duty	Unit
H-101	Heater	Direct-fired Heater	Chrome/Moly	6895	kPa	16.02	kW
Mixer							
Number	Equipment	Type	Material	Capacity	Unit		
M-101	Mixer	Mixer	Carbon Steel	0.600000024	cubic meters		
Pump							
Number	Equipment	Type	Material	Pressure	Unit	Capacity	Unit
P-1	Pump	Centrifugal Pump	Cast Iron	1035	kPa	0	cubic meter/s
Tray							
Number	Equipment	Type	Material	Diameter	Unit	No. of Trays	
Tt-101		Valve tray	Carbon Steel	2.2	meters	8	
Tt-102		Valve tray	Carbon Steel	1.77	meters	35	
Tt-103		Valve tray	Carbon Steel	1.96	meters	12	

Table C2. Equipment list and sizing parameter (cont'd)

Tower Unit									
Number	Equipment	Type	Material	Pressure	Unit	Height	Unit	Diameter	
T-101	Tower Unit	Vertical Column	Carbon Steel	5000	kPa	10.27	meters	2	meter
T-102	Tower Unit	Vertical Column	Carbon Steel	1035	kPa	26.74	meters	2	meter
T-103	Tower Unit	Vertical Column	Carbon Steel	1035	kPa	12.71	meters	2	meter
T-F101	Tower Unit	Vertical Column	Carbon Steel	40000	kPa	4.728	meters	1	meter
Heat Exchanger									
Number	Equipment	Type	Material	Pressure	Unit	Area	Unit	Diameter of tube	Length of tube
E-101	Heat Exchanger	Fixed tube shell & tube Heat exchanger	304 Stainless Steel	1035		34.151	sq.meter	0meter	0meter
E-103	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	5000		270.816	sq.meter	0meter	0meter
E-R101	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	5000		300	sq.meter	.0723meter	4meter
Tr-101	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	5000		184.92	sq.meter	.0723meter	4meter
Tc-101	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	5000		12.39	sq.meter	.0723meter	4meter
Tr-102	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	1035		312.87	sq.meter	.0723meter	4meter
Tc-102	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	1035		273.54	sq.meter	.0723meter	4meter
Tr-103	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	1035		261.71	sq.meter	.0723meter	4meter
Tc-103	Heat Exchanger	Fixed tube shell & tube Heat exchanger	Carbon Steel	1035		207.23	sq.meter	.0723meter	4meter