



HX-01	
LMTD	3.897 K
UA (Calculated)	77266 W/C
Cold Pinch Temperature	296.9 K
Minimum Approach	3.075 K
Heat Leak	62.00 W*

HX-02	
LMTD	2.807 K
UA (Calculated)	15302 W/C
Cold Pinch Temperature	142.4 K
Minimum Approach	1.4301 K
Heat Leak	10.00 W*

HX-03	
LMTD	1.871 K
UA (Calculated)	88889 W/C
Cold Pinch Temperature	142.4 K
Minimum Approach	1.4301 K
Heat Leak	51.00 W*

HX-04	
LMTD	1.302 K
UA (Calculated)	24288 W/C
Cold Pinch Temperature	49.59 K
Minimum Approach	0.4935 K
Heat Leak	20.00 W*

HX-05	
LMTD	0.7907 K
UA (Calculated)	11 W/C
Cold Pinch Temperature	49.59 K
Minimum Approach	0.5009 K
Heat Leak	5.000 W*

HX-06	
LMTD	0.5709 K
UA (Calculated)	47043 W/C
Cold Pinch Temperature	49.58 K
Minimum Approach	0.5045 K
Heat Leak	38.00 W*

HX-07	
LMTD	0.4971 K
UA (Calculated)	6549 W/C
Cold Pinch Temperature	33.46 K
Minimum Approach	0.3390 K
Heat Leak	7.000 W*

HX-08	
LMTD	0.5294 K
UA (Calculated)	19557 W/C
Cold Pinch Temperature	33.46 K
Minimum Approach	0.3390 K
Heat Leak	16.00 W*

HX-09	
LMTD	0.3613 K
UA (Calculated)	36254 W/C
Cold Pinch Temperature	18.65 K
Minimum Approach	0.1900 K
Heat Leak	37.00 W*

HX-10	
LMTD	0.8182 K
UA (Calculated)	15824 W/C
Cold Pinch Temperature	18.65 K
Minimum Approach	0.1900 K
Heat Leak	16.00 W*

HX-12	
LMTD	0.4943 K
UA (Calculated)	10460 W/C
Cold Pinch Temperature	8.098 K
Minimum Approach	0.1000 K
Heat Leak	10.00 W*

HX-13	
LMTD	0.1577 K
UA (Calculated)	1736 W/C
Cold Pinch Temperature	4.486 K
Minimum Approach	0.1006 K
Heat Leak	5.000 W*

T-1	
Power	8.500 kW
Feed Pressure	19.54 bar
Product Pressure	12.00 bar
Molar Flow	1431 Nm ³ /h(gas)
Mass Flow	71.00 g/s
Feed Temperature	166.6 K
Product Temperature	143.9 K
Adiabatic Efficiency	77.5
Adiabatic Fluid Head	155.6 kJ/kg
ALAT Type	C4-500
Bearing demand	3.564 g/s
Gas Losses	0.1717 g/s

T-2	
Power	6.366 kW
Feed Temperature	66.53 K
Product Temperature	49.59 K
Feed Pressure	11.83 bar
Product Pressure	4.312 bar
Mass Flow	70.80 g/s
Molar Flow	1427 Nm ³ /h(gas)
Adiabatic Efficiency	77.0
Adiabatic Fluid Head	116.8 kJ/kg
ALAT Type	C4-500
Bearing demand	3.560 g/s
Gas Losses	0.1654 g/s

T-3	
Power	7.225 kW
Feed Temperature	50.10 K
Product Temperature	33.46 K
Feed Pressure	19.00 bar
Product Pressure	4.372 bar
Mass Flow	81.07 g/s
Molar Flow	1634 Nm ³ /h(gas)
Adiabatic Efficiency	75.0
Adiabatic Fluid Head	118.9 kJ/kg
ALAT Type	C4-500
Bearing demand	3.617 g/s
Gas Losses	0.2110 g/s

T-4	
Power	2.505 kW
Feed Temperature	10.46 K
Product Temperature	28.44 K
Feed Pressure	19.27 bar
Product Pressure	4.389 bar
Mass Flow	49.70 g/s
Molar Flow	1002 Nm ³ /h(gas)
Adiabatic Efficiency	75.5
Adiabatic Fluid Head	66.74 kJ/kg
ALAT Type	C3-400
Bearing demand	1.524 g/s
Gas Losses	0.1503 g/s

T-5	
Power	2.250 kW
Feed Temperature	10.46 K
Product Temperature	8.198 K
Feed Pressure	19.23 bar
Product Pressure	3.000 bar
Mass Flow	232.7 g/s
Molar Flow	4691 Nm ³ /h(gas)
Adiabatic Efficiency	78.0
Adiabatic Fluid Head	12.39 kJ/kg
ALAT Type	C3-400
Bearing demand	4.977 g/s
Gas Losses	0.3145 g/s

T-6	
Power	0.6208 kW
Feed Temperature	5.108 K
Product Temperature	4.810 K
Feed Pressure	7.840 bar
Product Pressure	3.000 bar
Mass Flow	232.4 g/s
Molar Flow	4685 Nm ³ /h(gas)
Adiabatic Efficiency	73.0
Adiabatic Fluid Head	3.659 kJ/kg
ALAT Type	C3-400
Bearing demand	g/s
Gas Losses	g/s