



NTNU
Calgary, Alberta
CANADA

Case Name: M:\5KL\PROSJEKT\HYSYS\1_71 3P HC SC.HSC

Unit Set: SI

Date/Time: Mon Dec 01 10:57:15 2003

Workbook: Case (Main)

Material Streams

Name	28NG	1	20LCR	24SCR	6
Vapour Fraction	1.0000	0.0000 *	1.0000	1.0000	0.0000
Temperature (C)	8.000	8.000 *	8.000	8.000	-10.00
Pressure (kPa)	7000 *	2101	1640 *	5300 *	2101
Molar Flow (kgmole/h)	4.628e+004	6.016e+004 *	2.083e+004	2.515e+004	4.435e+004 *
Mass Flow (kg/h)	8.000e+005 *	2.054e+006	6.200e+005 *	5.500e+005 *	1.514e+006
Liquid Volume Flow (m3/h)	2588	5129	1711	1579	3781
Heat Flow (kJ/h)	-3.619e+009	-6.252e+009	-1.815e+009	-1.881e+009	-4.695e+009
Name	2	4	29	25	21
Vapour Fraction	0.0000	0.0216	1.0000	1.0000	1.0000
Temperature (C)	-10.00	-12.60 *	-10.00 *	-10.00	-10.00
Pressure (kPa)	2101	1268	7000	5300	1640
Molar Flow (kgmole/h)	6.016e+004	1.581e+004	4.628e+004	2.515e+004	2.083e+004
Mass Flow (kg/h)	2.054e+006	5.396e+005	8.000e+005	5.500e+005	6.200e+005
Liquid Volume Flow (m3/h)	5129	1348	2588	1579	1711
Heat Flow (kJ/h)	-6.369e+009	-1.673e+009	-3.663e+009	-1.908e+009	-1.838e+009
Name	7	9	10	5	17
Vapour Fraction	0.0000	0.0223	1.0000	1.0000	1.0000
Temperature (C)	-30.00	-33.00 *	-13.05	5.000	17.65
Pressure (kPa)	2101	709.6	709.6	1268	1268
Molar Flow (kgmole/h)	4.435e+004	2.976e+004	2.976e+004	1.581e+004	4.435e+004
Mass Flow (kg/h)	1.514e+006	1.016e+006	1.016e+006	5.396e+005	1.514e+006
Liquid Volume Flow (m3/h)	3781	2538	2538	1348	3781
Heat Flow (kJ/h)	-4.779e+009	-3.207e+009	-2.772e+009	-1.464e+009	-4.071e+009
Name	18	19	30	22	26
Vapour Fraction	1.0000	1.0000	1.0000	0.0458	0.8196
Temperature (C)	14.33	40.95	-30.00 *	-30.00	-30.00
Pressure (kPa)	1268	2101	7000	1640	5300
Molar Flow (kgmole/h)	6.016e+004	6.016e+004	4.628e+004	2.083e+004	2.515e+004
Mass Flow (kg/h)	2.054e+006	2.054e+006	8.000e+005	6.200e+005	5.500e+005
Liquid Volume Flow (m3/h)	5129	5129	2588	1711	1579
Heat Flow (kJ/h)	-5.535e+009	-5.473e+009	-3.718e+009	-2.079e+009	-1.963e+009
Name	3	23	27	31	8
Vapour Fraction	0.0000	0.0000	0.3986	1.0000	0.0000
Temperature (C)	-10.00	-50.00	-50.00	-50.00 *	-30.00
Pressure (kPa)	2101	1640	5300	7000	2101
Molar Flow (kgmole/h)	1.581e+004	2.083e+004	2.515e+004	4.628e+004	2.976e+004
Mass Flow (kg/h)	5.396e+005	6.200e+005	5.500e+005	8.000e+005	1.016e+006
Liquid Volume Flow (m3/h)	1348	1711	1579	2588	2538
Heat Flow (kJ/h)	-1.673e+009	-2.123e+009	-2.042e+009	-3.797e+009	-3.207e+009
Name	11	12	13	14	16
Vapour Fraction	0.0000	0.0000	0.0194	1.0000	1.0000
Temperature (C)	-30.00	-50.00	-52.70 *	-32.83	-10.03
Pressure (kPa)	2101	2101	365.3	365.3	709.6
Molar Flow (kgmole/h)	1.459e+004 *	1.459e+004	1.459e+004	1.459e+004	4.435e+004
Mass Flow (kg/h)	4.980e+005	4.980e+005	4.980e+005	4.980e+005	1.514e+006
Liquid Volume Flow (m3/h)	1244	1244	1244	1244	3781
Heat Flow (kJ/h)	-1.572e+009	-1.597e+009	-1.597e+009	-1.369e+009	-4.122e+009
Name	15				
Vapour Fraction	1.0000				
Temperature (C)	-3.895				
Pressure (kPa)	709.6				
Molar Flow (kgmole/h)	1.459e+004				
Mass Flow (kg/h)	4.980e+005				
Liquid Volume Flow (m3/h)	1244				
Heat Flow (kJ/h)	-1.351e+009				