



NTNU
Calgary, Alberta
CANADA

Case Name: M:\5kl\Projekt\Hysys\8_22\21 3P CO2 SC IC_part EXP_liq.hsc

Unit Set: SI

Date/Time: Mon Dec 01 11:24:59 2003

Workbook: Case (Main)

Material Streams

Name	Dry feed gas	PCR	LCR	SCR	1
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 *	4830	1640 *	5300 *	4830
Molar Flow (kgmole/h)	4.628e+004	6.225e+004	2.083e+004	2.515e+004	4.416e+004
Mass Flow (kg/h)	8.000e+005 *	2.739e+006	6.200e+005 *	5.500e+005 *	1.943e+006
Liquid Volume Flow (m3/h)	2588	3319	1711	1579	2355
Heat Flow (kJ/h)	-3.619e+009	-2.529e+010	-1.815e+009	-1.881e+009	-1.804e+010
Name	2	4	5	6	7
Vapour Fraction	0.0000	0.1861	1.0000	1.0000	1.0000
Temperature (C)	8.000	-11.00 *	-10.00 *	-10.00	-10.00
Pressure (kPa)	4830	2529	7000	5300	1640
Molar Flow (kgmole/h)	4.416e+004	1.809e+004	4.628e+004	2.515e+004	2.083e+004
Mass Flow (kg/h)	1.943e+006	7.961e+005	8.000e+005	5.500e+005	6.200e+005
Liquid Volume Flow (m3/h)	2355	964.5	2588	1579	1711
Heat Flow (kJ/h)	-1.794e+010	-7.350e+009	-3.663e+009	-1.908e+009	-1.838e+009
Name	8	9	11	12	13
Vapour Fraction	0.0000	0.1380	1.0000	1.0000	1.0000
Temperature (C)	-30.00	-31.00 *	-12.86	5.107	8.000
Pressure (kPa)	4830	1342	1342	2529	2529
Molar Flow (kgmole/h)	1.422e+004 *	2.994e+004	2.994e+004	1.809e+004	4.416e+004
Mass Flow (kg/h)	6.257e+005	1.318e+006	1.318e+006	7.961e+005	1.943e+006
Liquid Volume Flow (m3/h)	758.1	1597	1597	964.5	2355
Heat Flow (kJ/h)	-5.836e+009	-1.223e+010	-1.186e+010	-7.161e+009	-1.748e+010
Name	14	15	16	17	18
Vapour Fraction	1.0000	1.0000	1.0000	0.0458	0.8196
Temperature (C)	7.156	57.16	-30.00 *	-30.00	-30.00
Pressure (kPa)	2529	4830	7000	1640	5300
Molar Flow (kgmole/h)	6.225e+004	6.225e+004	4.628e+004	2.083e+004	2.515e+004
Mass Flow (kg/h)	2.739e+006	2.739e+006	8.000e+005	6.200e+005	5.500e+005
Liquid Volume Flow (m3/h)	3319	3319	2588	1711	1579
Heat Flow (kJ/h)	-2.464e+010	-2.456e+010	-3.718e+009	-2.079e+009	-1.963e+009
Name	19	3	10	20	21
Vapour Fraction	0.0000	0.0000	0.3986	1.0000	0.0000
Temperature (C)	8.000	-50.00	-50.00	-50.00 *	-10.00
Pressure (kPa)	4830	1640	5300	7000	4830
Molar Flow (kgmole/h)	1.809e+004 *	2.083e+004	2.515e+004	4.628e+004	2.994e+004 *
Mass Flow (kg/h)	7.961e+005	6.200e+005	5.500e+005	8.000e+005	1.318e+006
Liquid Volume Flow (m3/h)	964.5	1711	1579	2588	1597
Heat Flow (kJ/h)	-7.350e+009	-2.123e+009	-2.042e+009	-3.797e+009	-1.223e+010
Name	24	25	26	28	29
Vapour Fraction	0.1110	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-51.00 *	-33.03	-4.139	14.37	40.55
Pressure (kPa)	632.2	632.2	1342	1342	2529
Molar Flow (kgmole/h)	1.422e+004	1.422e+004	4.416e+004	1.422e+004	4.416e+004
Mass Flow (kg/h)	6.257e+005	6.257e+005	1.943e+006	6.257e+005	1.943e+006
Liquid Volume Flow (m3/h)	758.1	758.1	2355	758.1	2355
Heat Flow (kJ/h)	-5.837e+009	-5.635e+009	-1.747e+010	-5.613e+009	-1.741e+010
Name	30	22	23	27	
Vapour Fraction	0.0000	0.0000	0.0000	0.0000 *	
Temperature (C)	-10.00	-31.72	-11.77	13.00	
Pressure (kPa)	4830	1320 *	2502 *	4830	
Molar Flow (kgmole/h)	1.422e+004	1.422e+004	2.994e+004	6.225e+004	
Mass Flow (kg/h)	6.257e+005	6.257e+005	1.318e+006	2.739e+006	
Liquid Volume Flow (m3/h)	758.1	758.1	1597	3319	
Heat Flow (kJ/h)	-5.808e+009	-5.837e+009	-1.223e+010	-2.524e+010	