



NTNU
Calgary, Alberta
CANADA

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

Unit Set: SI

Date/Time: Mon Dec 01 11:09:58 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	6.277e+004	2.083e+004	2.515e+004	4.461e+004
Mass Flow (kg/h)	8.000e+005 *	2.763e+006	6.200e+005 *	5.500e+005 *	1.963e+006
Liquid Volume Flow (m3/h)	2588	3347	1711	1579	2379
Heat Flow (kJ/h)	-3.619e+009	-2.551e+010	-1.815e+009	-1.881e+009	-1.823e+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)	4.461e+004	1.816e+004	4.628e+004	2.515e+004	2.083e+004
Mass Flow (kg/h)	1.963e+006	7.992e+005	8.000e+005	5.500e+005	6.200e+005
Liquid Volume Flow (m3/h)	2379	968.4	2588	1579	1711
Heat Flow (kJ/h)	-1.813e+010	-7.379e+009	-3.663e+009	-1.908e+009	-1.838e+009
Name	8	9	11	12	13
Vapour Fraction	0.0000	0.1454	1.0000	1.0000	1.0000
Temperature (C)	-30.00	-31.00 *	-13.31	5.378	8.000
Pressure (kPa)	4830	1342	1342	2529	2529
Molar Flow (kgmole/h)	1.436e+004 *	3.025e+004	3.025e+004	1.816e+004	4.461e+004
Mass Flow (kg/h)	6.320e+005	1.331e+006	1.331e+006	7.992e+005	1.963e+006
Liquid Volume Flow (m3/h)	765.8	1613	1613	968.4	2379
Heat Flow (kJ/h)	-5.895e+009	-1.236e+010	-1.198e+010	-7.190e+009	-1.766e+010
Name	14	15	16	17	18
Vapour Fraction	1.0000	1.0000	1.0000	0.0458	0.8196
Temperature (C)	7.239	57.25	-30.00 *	-30.00	-30.00
Pressure (kPa)	2529	4830	7000	1640	5300
Molar Flow (kgmole/h)	6.277e+004	6.277e+004	4.628e+004	2.083e+004	2.515e+004
Mass Flow (kg/h)	2.763e+006	2.763e+006	8.000e+005	6.200e+005	5.500e+005
Liquid Volume Flow (m3/h)	3347	3347	2588	1711	1579
Heat Flow (kJ/h)	-2.485e+010	-2.476e+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)	1.816e+004 *	2.083e+004	2.515e+004	4.628e+004	3.025e+004 *
Mass Flow (kg/h)	7.992e+005	6.200e+005	5.500e+005	8.000e+005	1.331e+006
Liquid Volume Flow (m3/h)	968.4	1711	1579	2588	1613
Heat Flow (kJ/h)	-7.379e+009	-2.123e+009	-2.042e+009	-3.797e+009	-1.236e+010
Name	24	25	26	27	29
Vapour Fraction	0.1200	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-51.00 *	-33.17	-4.501	14.22	40.15
Pressure (kPa)	632.2	632.2	1342	1342	2529
Molar Flow (kgmole/h)	1.436e+004	1.436e+004	4.461e+004	1.436e+004	4.461e+004
Mass Flow (kg/h)	6.320e+005	6.320e+005	1.963e+006	6.320e+005	1.963e+006
Liquid Volume Flow (m3/h)	765.8	765.8	2379	765.8	2379
Heat Flow (kJ/h)	-5.895e+009	-5.692e+009	-1.765e+010	-5.670e+009	-1.759e+010
Name	30	22			
Vapour Fraction	0.0000	0.0000 *			
Temperature (C)	-10.00	13.00			
Pressure (kPa)	4830	4830			
Molar Flow (kgmole/h)	1.436e+004	6.277e+004			
Mass Flow (kg/h)	6.320e+005	2.763e+006			
Liquid Volume Flow (m3/h)	765.8	3347			
Heat Flow (kJ/h)	-5.867e+009	-2.546e+010			