



NTNU  
Calgary, Alberta  
CANADA

Case Name: M:\5kl\Projekt\Hysys\8\_22\20 3P CO2 SC IC 75.hsc

Unit Set: SI

Date/Time: Mon Dec 01 11:24:08 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	4.458e+004
Mass Flow (kg/h)	8.000e+005 *	2.763e+006	6.200e+005 *	5.500e+005 *	1.962e+006
Liquid Volume Flow (m3/h)	2588	3347	1711	1579	2377
Heat Flow (kJ/h)	-3.619e+009	-2.551e+010	-1.815e+009	-1.881e+009	-1.821e+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)	4.458e+004	1.819e+004	4.628e+004	2.515e+004	2.083e+004
Mass Flow (kg/h)	1.962e+006	8.005e+005	8.000e+005	5.500e+005	6.200e+005
Liquid Volume Flow (m3/h)	2377	970.0	2588	1579	1711
Heat Flow (kJ/h)	-1.812e+010	-7.392e+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 *	-13.00	4.953	8.000
Pressure (kPa)	4830	1342	1342	2529	2529
Molar Flow (kgmole/h)	1.436e+004 *	3.022e+004	3.022e+004	1.819e+004	4.458e+004
Mass Flow (kg/h)	6.320e+005	1.330e+006	1.330e+006	8.005e+005	1.962e+006
Liquid Volume Flow (m3/h)	765.8	1612	1612	970.0	2377
Heat Flow (kJ/h)	-5.895e+009	-1.235e+010	-1.197e+010	-7.202e+009	-1.765e+010
Name	14	15	16	17	18
Vapour Fraction	1.0000	1.0000	1.0000	0.0458	0.8196
Temperature (C)	7.114	65.26	-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	-2.474e+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)	1.819e+004 *	2.083e+004	2.515e+004	4.628e+004	3.022e+004 *
Mass Flow (kg/h)	8.005e+005	6.200e+005	5.500e+005	8.000e+005	1.330e+006
Liquid Volume Flow (m3/h)	970.0	1711	1579	2588	1612
Heat Flow (kJ/h)	-7.392e+009	-2.123e+009	-2.042e+009	-3.797e+009	-1.235e+010
Name	24	25	26	27	28
Vapour Fraction	0.1200	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-51.00 *	-33.18	-6.269	8.000	26.28
Pressure (kPa)	632.2	632.2	1342	1342	1342
Molar Flow (kgmole/h)	1.436e+004	1.436e+004	4.458e+004	1.436e+004	1.436e+004
Mass Flow (kg/h)	6.320e+005	6.320e+005	1.962e+006	6.320e+005	6.320e+005
Liquid Volume Flow (m3/h)	765.8	765.8	2377	765.8	765.8
Heat Flow (kJ/h)	-5.895e+009	-5.692e+009	-1.764e+010	-5.674e+009	-5.663e+009
Name	29	30	22		
Vapour Fraction	1.0000	0.0000	0.0000 *		
Temperature (C)	48.04	-10.00	13.00		
Pressure (kPa)	2529	4830	4830		
Molar Flow (kgmole/h)	4.458e+004	1.436e+004	6.277e+004		
Mass Flow (kg/h)	1.962e+006	6.320e+005	2.763e+006		
Liquid Volume Flow (m3/h)	2377	765.8	3347		
Heat Flow (kJ/h)	-1.756e+010	-5.867e+009	-2.546e+010		