



NTNU  
Calgary, Alberta  
CANADA

Case Name:	M:\5kl\Projekt\Hysys\8_22\11 3P CO2 IC.hsc
Unit Set:	SI
Date/Time:	Mon Dec 01 11:14:33 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	8.000
Pressure (kPa)	7000 *	4830	1640 *	5300 *	4830
Molar Flow (kgmole/h)	4.628e+004	6.302e+004	2.083e+004	2.515e+004	5.415e+004
Mass Flow (kg/h)	8.000e+005 *	2.774e+006	6.200e+005 *	5.500e+005 *	2.383e+006
Liquid Volume Flow (m3/h)	2588	3361	1711	1579	2887
Heat Flow (kJ/h)	-3.619e+009	-2.561e+010	-1.815e+009	-1.881e+009	-2.200e+010
Name	4	5	6	7	9
Vapour Fraction	0.1861	1.0000	1.0000	1.0000	0.3036
Temperature (C)	-11.00 *	-10.00 *	-10.00	-10.00	-31.00 *
Pressure (kPa)	2529	7000	5300	1640	1342
Molar Flow (kgmole/h)	8876	4.628e+004	2.515e+004	2.083e+004	3.390e+004
Mass Flow (kg/h)	3.906e+005	8.000e+005	5.500e+005	6.200e+005	1.492e+006
Liquid Volume Flow (m3/h)	473.3	2588	1579	1711	1807
Heat Flow (kJ/h)	-3.607e+009	-3.663e+009	-1.908e+009	-1.838e+009	-1.377e+010
Name	11	12	13	14	15
Vapour Fraction	1.0000	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-13.01	4.859	8.000	7.556	57.58
Pressure (kPa)	1342	2529	2529	2529	4830
Molar Flow (kgmole/h)	3.390e+004	8876	5.415e+004	6.302e+004	6.302e+004
Mass Flow (kg/h)	1.492e+006	3.906e+005	2.383e+006	2.774e+006	2.774e+006
Liquid Volume Flow (m3/h)	1807	473.3	2887	3361	3361
Heat Flow (kJ/h)	-1.342e+010	-3.514e+009	-2.143e+010	-2.495e+010	-2.486e+010
Name	16	17	18	19	3
Vapour Fraction	1.0000	0.0458	0.8196	0.0000	0.0000
Temperature (C)	-30.00 *	-30.00	-30.00	8.000	-50.00
Pressure (kPa)	7000	1640	5300	4830	1640
Molar Flow (kgmole/h)	4.628e+004	2.083e+004	2.515e+004	8876 *	2.083e+004
Mass Flow (kg/h)	8.000e+005	6.200e+005	5.500e+005	3.906e+005	6.200e+005
Liquid Volume Flow (m3/h)	2588	1711	1579	473.3	1711
Heat Flow (kJ/h)	-3.718e+009	-2.079e+009	-1.963e+009	-3.607e+009	-2.123e+009
Name	10	20	21	22	24
Vapour Fraction	0.3986	1.0000	0.0000	0.0000	0.3896
Temperature (C)	-50.00	-50.00 *	8.000	8.000	-51.00 *
Pressure (kPa)	5300	7000	4830	4830	632.2
Molar Flow (kgmole/h)	2.515e+004	4.628e+004	3.390e+004 *	2.025e+004 *	2.025e+004
Mass Flow (kg/h)	5.500e+005	8.000e+005	1.492e+006	8.913e+005	8.913e+005
Liquid Volume Flow (m3/h)	1579	2588	1807	1080	1080
Heat Flow (kJ/h)	-2.042e+009	-3.797e+009	-1.377e+010	-8.230e+009	-8.230e+009
Name	25	26	27	28	29
Vapour Fraction	1.0000	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-33.04	-5.190	8.000	14.37	39.41
Pressure (kPa)	632.2	1342	1342	1342	2529
Molar Flow (kgmole/h)	2.025e+004	5.415e+004	2.025e+004	2.025e+004	5.415e+004
Mass Flow (kg/h)	8.913e+005	2.383e+006	8.913e+005	8.913e+005	2.383e+006
Liquid Volume Flow (m3/h)	1080	2887	1080	1080	2887
Heat Flow (kJ/h)	-8.027e+009	-2.142e+010	-8.002e+009	-7.996e+009	-2.135e+010
Name	2				
Vapour Fraction	0.0000 *				
Temperature (C)	13.00				
Pressure (kPa)	4830				
Molar Flow (kgmole/h)	6.302e+004				
Mass Flow (kg/h)	2.774e+006				
Liquid Volume Flow (m3/h)	3361				
Heat Flow (kJ/h)	-2.556e+010				