



NTNU
Calgary, Alberta
CANADA

Case Name: M:\5kl\Projekt\Hysys\8_22\15 3P CO2 SC IC cond20.hsc

Unit Set: SI

Date/Time: Mon Dec 01 11:18:28 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)	20.00	20.00 *	20.00	20.00	-10.00
Pressure (kPa)	7000 *	6438	1640 *	5300 *	6438
Molar Flow (kgmole/h)	4.628e+004	7.937e+004	2.083e+004	2.515e+004	4.440e+004
Mass Flow (kg/h)	8.000e+005 *	3.493e+006	6.200e+005 *	5.500e+005 *	1.954e+006
Liquid Volume Flow (m3/h)	2588	4232	1711	1579	2368
Heat Flow (kJ/h)	-3.592e+009	-3.212e+010	-1.800e+009	-1.864e+009	-1.814e+010
Name	2	4	5	6	7
Vapour Fraction	0.0000	0.3291	1.0000	1.0000	1.0000
Temperature (C)	20.00	-11.00 *	-10.00 *	-10.00	-10.00
Pressure (kPa)	6438	2529	7000	5300	1640
Molar Flow (kgmole/h)	4.440e+004	3.496e+004	4.628e+004	2.515e+004	2.083e+004
Mass Flow (kg/h)	1.954e+006	1.539e+006	8.000e+005	5.500e+005	6.200e+005
Liquid Volume Flow (m3/h)	2368	1864	2588	1579	1711
Heat Flow (kJ/h)	-1.797e+010	-1.415e+010	-3.663e+009	-1.908e+009	-1.838e+009
Name	8	9	11	12	13
Vapour Fraction	0.0000	0.1417	1.0000	1.0000	1.0000
Temperature (C)	-30.00	-31.00 *	-13.00	16.59	20.00
Pressure (kPa)	6438	1342	1342	2529	2529
Molar Flow (kgmole/h)	1.435e+004 *	3.005e+004	3.005e+004	3.496e+004	4.440e+004
Mass Flow (kg/h)	6.318e+005	1.322e+006	1.322e+006	1.539e+006	1.954e+006
Liquid Volume Flow (m3/h)	765.4	1602	1602	1864	2368
Heat Flow (kJ/h)	-5.892e+009	-1.228e+010	-1.190e+010	-1.382e+010	-1.755e+010
Name	14	15	16	17	18
Vapour Fraction	1.0000	1.0000	1.0000	0.0458	0.8196
Temperature (C)	18.49	93.87	-30.00 *	-30.00	-30.00
Pressure (kPa)	2529	6438	7000	1640	5300
Molar Flow (kgmole/h)	7.937e+004	7.937e+004	4.628e+004	2.083e+004	2.515e+004
Mass Flow (kg/h)	3.493e+006	3.493e+006	8.000e+005	6.200e+005	5.500e+005
Liquid Volume Flow (m3/h)	4232	4232	2588	1711	1579
Heat Flow (kJ/h)	-3.137e+010	-3.120e+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)	20.00	-50.00	-50.00	-50.00 *	-10.00
Pressure (kPa)	6438	1640	5300	7000	6438
Molar Flow (kgmole/h)	3.496e+004 *	2.083e+004	2.515e+004	4.628e+004	3.005e+004 *
Mass Flow (kg/h)	1.539e+006	6.200e+005	5.500e+005	8.000e+005	1.322e+006
Liquid Volume Flow (m3/h)	1864	1711	1579	2588	1602
Heat Flow (kJ/h)	-1.415e+010	-2.123e+009	-2.042e+009	-3.797e+009	-1.228e+010
Name	24	25	26	27	29
Vapour Fraction	0.1197	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-51.00 *	-33.14	-4.241	14.25	40.44
Pressure (kPa)	632.2	632.2	1342	1342	2529
Molar Flow (kgmole/h)	1.435e+004	1.435e+004	4.440e+004	1.435e+004	4.440e+004
Mass Flow (kg/h)	6.318e+005	6.318e+005	1.954e+006	6.318e+005	1.954e+006
Liquid Volume Flow (m3/h)	765.4	765.4	2368	765.4	2368
Heat Flow (kJ/h)	-5.892e+009	-5.689e+009	-1.757e+010	-5.668e+009	-1.751e+010
Name	30	22			
Vapour Fraction	0.0000	0.0000 *			
Temperature (C)	-10.00	25.00			
Pressure (kPa)	6438	6438			
Molar Flow (kgmole/h)	1.435e+004	7.937e+004			
Mass Flow (kg/h)	6.318e+005	3.493e+006			
Liquid Volume Flow (m3/h)	765.4	4232			
Heat Flow (kJ/h)	-5.865e+009	-3.201e+010			