



NTNU
Calgary, Alberta
CANADA

Case Name: M:\5kl\Projekt\Hysys\8_22\10 3P CO2 SC IC EXP.HSC

Unit Set: SI

Date/Time: Mon Dec 01 11:13:04 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	6.148e+004	2.083e+004	2.515e+004	4.377e+004
Mass Flow (kg/h)	8.000e+005 *	2.706e+006	6.200e+005 *	5.500e+005 *	1.926e+006
Liquid Volume Flow (m3/h)	2588	3278	1711	1579	2334
Heat Flow (kJ/h)	-3.619e+009	-2.498e+010	-1.815e+009	-1.881e+009	-1.788e+010
Name	2	4	5	6	7
Vapour Fraction	0.0000	0.1705	1.0000	1.0000	1.0000
Temperature (C)	8.000	-11.00	-10.00 *	-10.00	-10.00
Pressure (kPa)	4830	2530 *	7000	5300	1640
Molar Flow (kgmole/h)	4.377e+004	1.771e+004	4.628e+004	2.515e+004	2.083e+004
Mass Flow (kg/h)	1.926e+006	7.794e+005	8.000e+005	5.500e+005	6.200e+005
Liquid Volume Flow (m3/h)	2334	944.3	2588	1579	1711
Heat Flow (kJ/h)	-1.779e+010	-7.199e+009	-3.663e+009	-1.908e+009	-1.838e+009
Name	8	9	11	12	13
Vapour Fraction	0.0000	0.1293	1.0000	1.0000	1.0000
Temperature (C)	-30.00	-31.00	-12.87	4.942	8.000
Pressure (kPa)	4830	1342 *	1342	2530	2530
Molar Flow (kgmole/h)	1.412e+004 *	2.965e+004	2.965e+004	1.771e+004	4.377e+004
Mass Flow (kg/h)	6.215e+005	1.305e+006	1.305e+006	7.794e+005	1.926e+006
Liquid Volume Flow (m3/h)	753.1	1581	1581	944.3	2334
Heat Flow (kJ/h)	-5.797e+009	-1.212e+010	-1.174e+010	-7.011e+009	-1.732e+010
Name	14	15	16	17	18
Vapour Fraction	1.0000	1.0000	1.0000	0.0458	0.8196
Temperature (C)	7.116	57.12	-30.00 *	-30.00	-30.00
Pressure (kPa)	2530	4830	7000	1640	5300
Molar Flow (kgmole/h)	6.148e+004	6.148e+004	4.628e+004	2.083e+004	2.515e+004
Mass Flow (kg/h)	2.706e+006	2.706e+006	8.000e+005	6.200e+005	5.500e+005
Liquid Volume Flow (m3/h)	3278	3278	2588	1711	1579
Heat Flow (kJ/h)	-2.433e+010	-2.425e+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)	1.771e+004 *	2.083e+004	2.515e+004	4.628e+004	2.965e+004 *
Mass Flow (kg/h)	7.794e+005	6.200e+005	5.500e+005	8.000e+005	1.305e+006
Liquid Volume Flow (m3/h)	944.3	1711	1579	2588	1581
Heat Flow (kJ/h)	-7.196e+009	-2.123e+009	-2.042e+009	-3.797e+009	-1.211e+010
Name	24	25	26	27	28
Vapour Fraction	0.1047	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-51.00	-33.03	-6.170	8.000	14.37
Pressure (kPa)	632.2 *	632.2	1342	1342	1342
Molar Flow (kgmole/h)	1.412e+004	1.412e+004	4.377e+004	1.412e+004	1.412e+004
Mass Flow (kg/h)	6.215e+005	6.215e+005	1.926e+006	6.215e+005	6.215e+005
Liquid Volume Flow (m3/h)	753.1	753.1	2334	753.1	753.1
Heat Flow (kJ/h)	-5.800e+009	-5.597e+009	-1.732e+010	-5.580e+009	-5.576e+009
Name	29	30	22		
Vapour Fraction	1.0000	0.0000	0.0000 *		
Temperature (C)	38.35	-10.00	13.00		
Pressure (kPa)	2530	4830	4830		
Molar Flow (kgmole/h)	4.377e+004	1.412e+004	6.148e+004		
Mass Flow (kg/h)	1.926e+006	6.215e+005	2.706e+006		
Liquid Volume Flow (m3/h)	2334	753.1	3278		
Heat Flow (kJ/h)	-1.726e+010	-5.769e+009	-2.493e+010		