



NTNU
Calgary, Alberta
CANADA

Case Name: M:\5KL\PROSJEKTHYSYS1_73 3P CO2 SC IC.HSC

Unit Set: SI

Date/Time: Mon Dec 01 11:02:27 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	6.272e+004	2.083e+004	2.515e+004	4.454e+004
Mass Flow (kg/h)	8.000e+005 *	2.760e+006	6.200e+005 *	5.500e+005 *	1.960e+006
Liquid Volume Flow (m3/h)	2588	3345	1711	1579	2375
Heat Flow (kJ/h)	-3.619e+009	-2.549e+010	-1.815e+009	-1.881e+009	-1.820e+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)	4.454e+004	1.818e+004	4.628e+004	2.515e+004	2.083e+004
Mass Flow (kg/h)	1.960e+006	8.002e+005	8.000e+005	5.500e+005	6.200e+005
Liquid Volume Flow (m3/h)	2375	969.5	2588	1579	1711
Heat Flow (kJ/h)	-1.810e+010	-7.388e+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 *	-12.60	4.950	8.000
Pressure (kPa)	4830	1342	1342	2529	2529
Molar Flow (kgmole/h)	1.436e+004 *	3.018e+004	3.018e+004	1.818e+004	4.454e+004
Mass Flow (kg/h)	6.320e+005	1.328e+006	1.328e+006	8.002e+005	1.960e+006
Liquid Volume Flow (m3/h)	765.7	1609	1609	969.5	2375
Heat Flow (kJ/h)	-5.894e+009	-1.233e+010	-1.195e+010	-7.198e+009	-1.763e+010
Name	14	15	16	17	18
Vapour Fraction	1.0000	1.0000	1.0000	0.0458	0.8196
Temperature (C)	7.113	57.11	-30.00 *	-30.00	-30.00
Pressure (kPa)	2529	4830	7000	1640	5300
Molar Flow (kgmole/h)	6.272e+004	6.272e+004	4.628e+004	2.083e+004	2.515e+004
Mass Flow (kg/h)	2.760e+006	2.760e+006	8.000e+005	6.200e+005	5.500e+005
Liquid Volume Flow (m3/h)	3345	3345	2588	1711	1579
Heat Flow (kJ/h)	-2.483e+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)	1.818e+004 *	2.083e+004	2.515e+004	4.628e+004	3.018e+004 *
Mass Flow (kg/h)	8.002e+005	6.200e+005	5.500e+005	8.000e+005	1.328e+006
Liquid Volume Flow (m3/h)	969.5	1711	1579	2588	1609
Heat Flow (kJ/h)	-7.388e+009	-2.123e+009	-2.042e+009	-3.797e+009	-1.233e+010
Name	24	25	26	27	28
Vapour Fraction	0.1200	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-51.00 *	-33.19	-5.988	8.000	14.20
Pressure (kPa)	632.2	632.2	1342	1342	1342
Molar Flow (kgmole/h)	1.436e+004	1.436e+004	4.454e+004	1.436e+004	1.436e+004
Mass Flow (kg/h)	6.320e+005	6.320e+005	1.960e+006	6.320e+005	6.320e+005
Liquid Volume Flow (m3/h)	765.7	765.7	2375	765.7	765.7
Heat Flow (kJ/h)	-5.894e+009	-5.692e+009	-1.762e+010	-5.674e+009	-5.670e+009
Name	29	30	22		
Vapour Fraction	1.0000	0.0000	0.0000 *		
Temperature (C)	38.55	-10.00	13.00		
Pressure (kPa)	2529	4830	4830		
Molar Flow (kgmole/h)	4.454e+004	1.436e+004	6.272e+004		
Mass Flow (kg/h)	1.960e+006	6.320e+005	2.760e+006		
Liquid Volume Flow (m3/h)	2375	765.7	3345		
Heat Flow (kJ/h)	-1.756e+010	-5.867e+009	-2.544e+010		