Workbook: Case (Main)

Material Streams

Name	Dry feed gas	PCR	LCR	SCR	4
Vapour Fraction	1.0000	0.0000	1.0000	1.0000	0.0000
Temperature (C)	8.000	8.000 *	8.000	8.000	-11.75
Pressure (kPa)	7000 *	4830	1640 *	5300 *	2530 *
Molar Flow (kgmole/h)	4.628e+004	6.186e+004	2.083e+004	2.515e+004	1.780e+004
Mass Flow (kg/h)	8.000e+005 *	2.722e+006	6.200e+005 *	5.500e+005 *	7.833e+005
Liquid Volume Flow (m3/h)	2588	3299	1711	1579	949.1
Heat Flow (kJ/h)	-3.619e+009	-2.514e+010	-1.815e+009	-1.881e+009	-7.273e+009
Name	5	6	7	8	9
Vapour Fraction	1.0000	1.0000	1.0000	0.0000	0.0000
Temperature (C)	-10.00 *	-10.00	-10.00	-10.00	-31.71
Pressure (kPa)	7000	5300	1640	4830	1342 *
Molar Flow (kgmole/h)	4.628e+004	2.515e+004	2.083e+004	4.406e+004	2.986e+004
Mass Flow (kg/h)	8.000e+005	5.500e+005	6.200e+005	1.939e+006	1.314e+006
Liquid Volume Flow (m3/h)	2588	1579	1711	2349	1592
Heat Flow (kJ/h)	-3.663e+009	-1.908e+009	-1.838e+009	-1.800e+010	-1.226e+010
Name	11	13	14	16	17
Vapour Fraction	1.0000	1.0000	1.0000	1.0000	0.0458
Temperature (C)	-12.87	8.000	7.505	-30.00 *	-30.00
Pressure (kPa)	1342	2530	2530	7000	1640
Molar Flow (kgmole/h)	2.986e+004	4.406e+004	6.186e+004	4.628e+004	2.083e+004
Mass Flow (kg/h)	1.314e+006	1.939e+006	2.722e+006	8.000e+005	6.200e+005
Liquid Volume Flow (m3/h)	1592	2349	3299	2588	1711
Heat Flow (kJ/h)	-1.182e+010	-1.744e+010	-2.448e+010	-3.718e+009	-2.079e+009
Name	18	19	3	10	20
Vapour Fraction	0.8196	0.0000	0.0000	0.3986	1.0000
Temperature (C)	-30.00	-10.00	-50.00	-50.00	-50.00 *
Pressure (kPa)	5300	4830	1640	5300	7000
Molar Flow (kgmole/h)	2.515e+004	1.780e+004 *	2.083e+004	2.515e+004	4.628e+004
Mass Flow (kg/h)	5.500e+005	7.833e+005	6.200e+005	5.500e+005	8.000e+005
Liquid Volume Flow (m3/h)	1579	949.1	1711	1579	2588
Heat Flow (kJ/h)	-1.963e+009	-7.271e+009	-2.123e+009	-2.042e+009	-3.797e+009
Name	21	24	25	26	27
Vapour Fraction	0.0000	0.0000	1.0000	1.0000	1.0000
Temperature (C)	-30.00	-51.41	-33.03	-6.175	8.000
Pressure (kPa)	4830	632.2 *	632.2	1342	1342
Molar Flow (kgmole/h)	2.986e+004 *	1.420e+004	1.420e+004	4.406e+004	1.420e+004
Mass Flow (kg/h)	1.314e+006	6.250e+005	6.250e+005	1.939e+006	6.250e+005
Liquid Volume Flow (m3/h)	1592	757.3	757.3	2349	757.3
Heat Flow (kJ/h)	-1.226e+010	-5.856e+009	-5.629e+009	-1.743e+010	-5.611e+009
Name	30	12	15	1	2
Vapour Fraction	0.0000	1.0000	1.0000	1.0000	1.0000
Temperature (C)	-50.00	6.283	57.51	38.36	14.37
Pressure (kPa)	4830	2530	4830	2530	1342
Molar Flow (kgmole/h)	1.420e+004	1.780e+004	6.186e+004	4.406e+004	1.420e+004
Mass Flow (kg/h)	6.250e+005	7.833e+005	2.722e+006	1.939e+006	6.250e+005
Liquid Volume Flow (m3/h)	757.3	949.1	3299	2349	757.3
Heat Flow (kJ/h)	-5.854e+009	-7.046e+009	-2.440e+010	-1.738e+010	-5.607e+009
Name	22	23	28	29	
Vapour Fraction	0.0000	0.0000	0.0000	0.0000 *	
Temperature (C)	-10.00	-30.00	-30.00	13.00	
Pressure (kPa)	4830	4830	4830	4830	
Molar Flow (kgmole/h)	6.186e+004	4.406e+004	1.420e+004 *	6.186e+004	
Mass Flow (kg/h)	2.722e+006	1.939e+006	6.250e+005	2.722e+006	
Liquid Volume Flow (m3/h)	3299	2349	757.3	3299	
Heat Flow (kJ/h)	-2.527e+010	-1.809e+010	-5.830e+009	-2.509e+010	

Licensed to: NTNU
* Specified by user.