

Appendix B

Coefficients for the Total Resource Effectiveness Equations

FOR CHLORINATED PROCESS VENT STREAMS, IF $0 \leq$ NET HEATING VALUE (MJ/scm) ≤ 3.5 :

W = Vent Stream Flowrate (scm/min)	a	b	c	d	e	f
W < 13.5	48.73	0	0.404	-0.1632	0	0
13.5 < W ≤ 700	42.35	0.624	0.404	-0.1632	0	0.0245
700 < W ≤ 1400	84.38	0.678	0.404	-0.1632	0	0.0346
1400 < W ≤ 2100	126.41	0.712	0.404	-0.1632	0	0.0424
2100 < W ≤ 2800	168.44	0.747	0.404	-0.1632	0	0.0490
2800 < W ≤ 3500	210.47	0.758	0.404	-0.1632	0	0.0548

FOR CHLORINATED PROCESS VENT STREAMS, IF $3.5 <$ NET HEATING VALUE (MJ/scm) :

W = Vent Stream Flowrate (scm/min)	a	b	c	d	e	f
W < 13.5	47.76	0	-0.292	0	0	0
13.5 < W ≤ 700	41.58	0.605	-0.292	0	0	0.0245
700 < W ≤ 1400	82.84	0.658	-0.292	0	0	0.0346
1400 < W ≤ 2100	123.10	0.691	-0.292	0	0	0.0424
2100 < W ≤ 2800	165.36	0.715	-0.292	0	0	0.0490
2800 < W ≤ 3500	206.62	0.734	-0.292	0	0	0.0548

FOR NONCHLORINATED PROCESS VENT STREAMS, IF $0 \leq$ NET HEATING VALUE (MJ/scm) ≤ 0.48 :

W = Vent Stream Flowrate (scm/min)	a	b	c	d	e	f
W < 13.5	19.05	0	0.113	-0.214	0	0
13.5 < W ≤ 1350	16.61	0.239	0.113	-0.214	0	0.0245
1350 < W ≤ 2700	32.91	0.260	0.113	-0.214	0	0.0346
2700 < W ≤ 4050	49.21	0.273	0.113	-0.214	0	0.0424

FOR NONCHLORINATED PROCESS VENT STREAMS, IF $0.48 < \text{NET HEATING VALUE (MJ/scm)} \leq 1.9$:

W = Vent Stream Flowrate (scm/min)	a	b	c	d	e	f
W < 13.5	19.74	0	0.400	-0.202	0	0
13.5 < W ≤ 1350	18.30	0.138	0.400	-0.202	0	0.0245
1350 < W ≤ 2700	36.28	0.150	0.400	-0.202	0	0.0346
2700 < W ≤ 4050	54.26	0.158	0.400	-0.202	0	0.0424

FOR NONCHLORINATED PROCESS VENT STREAMS, IF $1.9 < \text{NET HEATING VALUE (MJ/scm)} \leq 3.6$:

W = Vent Stream Flowrate (scm/min)	a	b	c	d	e	f
W < 13.5	15.24	0	0.033	0	0	0
13.5 < W ≤ 1190	13.63	0.157	0.033	0	0	0.0245
1190 < W ≤ 2380	26.95	0.171	0.033	0	0	0.0346
2380 < W ≤ 3570	40.27	0.179	0.033	0	0	0.0424

FOR NONCHLORINATED PROCESS VENT STREAMS, IF $3.6 < \text{NET HEATING VALUE (MJ/scm)}$:

W' = Vent Stream Flowrate (scm/min) HT/3.6	a	b	c	d	e	f
W' < 13.5	15.24	0	0	0.0090	0	0
13.5 < W' ≤ 1190	13.63	0	0	0.0090	0.0503	0.0245
1190 < W' ≤ 2380	26.95	0	0	0.0090	0.0546	0.0346
2380 < W' ≤ 3570	40.27	0	0	0.0090	0.0573	0.0424