**Section 219.APPENDIX D Coefficients for the Total Resource Effectiveness Index (TRE) Equation**

The Appendix contains values for the total resource effectiveness index (TRE) equation in Subpart V.

If a flow rate falls exactly on the boundary between the indicated ranges, the operator shall use the row in which the flow rate is maximum.

COEFFICIENTS FOR TRE EQUATION

FOR CHLORINATED PROCESS VENT STREAMS WITH

NET HEATING VALUE LESS THAN

OR EQUAL TO 3.5 MJ/scm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FLOW RATE | |  |  |  |  |  |  |
| (scm/min) | |  |  |  |  |  |  |
| Min. | Max. | a | b | c | d | e | f |
| 0.0 | 13.5 | 48.73 | 0. | 0.404 | -0.1632 | 0. | 0. |
| 13.5 | 700. | 42.35 | 0.624 | 0.404 | -0.1632 | 0. | 0.0245 |
| 700. | 1400. | 84.38 | 0.678 | 0.404 | -0.1632 | 0. | 0.0346 |
| 1400. | 2100. | 126.41 | 0.712 | 0.404 | -0.1632 | 0. | 0.0424 |
| 2100. | 2800. | 168.44 | 0.747 | 0.404 | -0.1632 | 0. | 0.0490 |
| 2800. | 3500. | 210.47 | 0.758 | 0.404 | -0.1632 | 0. | 0.0548 |

COEFFICIENTS FOR TRE EQUATION

FOR CHLORINATED PROCESS VENT STREAMS WITH

NET HEATING VALUE GREATER THAN

3.5 MJ/scm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FLOW RATE | |  |  |  |  |  |  |
| (scm/min) | |  |  |  |  |  |  |
| Min. | Max. | a | b | c | d | e | f |
| 0. | 13.5 | 47.76 | 0. | -0.292 | 0. | 0. | 0. |
| 13.5 | 700. | 41.58 | 0.605 | -0.292 | 0. | 0. | 0.0245 |
| 700. | 1400. | 82.84 | 0.658 | -0.292 | 0. | 0. | 0.0346 |
| 1400. | 2100. | 123.10 | 0.691 | -0.292 | 0. | 0. | 0.0424 |
| 2100. | 2800. | 165.36 | 0.715 | -0.292 | 0. | 0. | 0.0490 |
| 2800. | 3500. | 206.62 | 0.734 | -0.292 | 0. | 0. | 0.0548 |

COEFFICIENTS FOR TRE EQUATION

FOR NONCHLORINATED PROCESS VENT STREAMS WiTH

NET HEATING VALUE LESS THAN

OR EQUAL TO 0.48 MJ/scm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FLOW RATE | |  |  |  |  |  |  |
| (scm/min) | |  |  |  |  |  |  |
| Min. | Max. | a | b | c | d | e | f |
| 0. | 13.5 | 19.05 | 0. | 0.113 | -0.214 | 0. | 0. |
| 13.5 | 1350. | 16.61 | 0.239 | 0.113 | -0.214 | 0. | 0.0245 |
| 1350. | 2700. | 32.91 | 0.260 | 0.113 | -0.214 | 0. | 0.0346 |
| 2700. | 4050. | 49.21 | 0.273 | 0.113 | -0.214 | 0. | 0.0424 |

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED

PROCESS VENT STREAMS WITH NET HEATING VALUE

GREATER THAN 0.48 AND LESS THAN OR

EQUAL TO 1.9 MJ/scm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FLOW RATE | |  |  |  |  |  |  |
| (scm/min) | |  |  |  |  |  |  |
| Min. | Max. | a | b | c | d | e | f |
| 0. | 13.5 | 19.74 | 0. | 0.400 | -0.202 | 0. | 0. |
| 13.5 | 1350. | 18.30 | 0.138 | 0.400 | -0.202 | 0. | 0.0245 |
| 1350. | 2700. | 36.28 | 0.150 | 0.400 | -0.202 | 0. | 0.0346 |
| 2700. | 4050. | 54.26 | 0.158 | 0.400 | -0.202 | 0. | 0.0424 |

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED

PROCESS VENT STREAMS WITH NET HEATING VALUE

GREATER THAN 1.9 AND LESS THAN OR

EQUAL TO 3.6 MJ/scm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FLOW RATE | |  |  |  |  |  |  |
| (scm/min) | |  |  |  |  |  |  |
| Min. | Max. | a | b | c | d | e | f |
| .0 | 13.5 | 15.24 | 0. | 0.033 | 0. | 0. | 0. |
| 13.5 | 1190. | 13.63 | 0.157 | 0.033 | 0. | 0. | 0.0245 |
| 1190. | 2380. | 26.95 | 0.171 | 0.033 | 0. | 0. | 0.0346 |
| 2380. | 3570. | 40.27 | 0.179 | 0.003 | 0. | 0. | 0.0424 |

COEFFICIENTS FOR THE EQUATION

FOR NONCHLORINATED PROCESS VENT STREAMS WITH

NET HEATING VALUE GREATER THAN 3.6 MG/scm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FLOW RATE | |  |  |  |  |  |  |
| (scm/min) | |  |  |  |  |  |  |
| Min. | Max. | a | b | c | d | e | f |
| 0. | 13.5 | 15.24 | 0. | 0. | 0.0090 | 0. | 0. |
| 13.5 | 1190. | 13.63 | 0. | 0. | 0.0090 | 0.0503 | 0.0245 |
| 1190. | 2380. | 26.95 | 0. | 0. | 0.0090 | 0.0546 | 0.0346 |
| 2380. | 3570. | 40.27 | 0. | 0. | 0.0090 | 0.0573 | 0.0424 |

(Source: Amended at 17 Ill. Reg. 16918, effective September 27, 1993)