**Section 218.APPENDIX D Coefficients for the Total Resource Effectiveness Index (TRE) Equation**

This 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. | 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 |

FOR TRE EQUATION

FOR NON-CHLORINATED 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

1.98 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 | 0.033 | 0. | 0. | 0.0424 |

FOR TRE EQUATION

FOR NONCHLORINATED PROCESS VENT STREAMS WITH

NET HEATING VALUE GREATER THAN 3.6 MJ/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 |