**Woodstoves Meeting Emission Standards for**

**the Fairbanks North Star Borough PM2.5 Nonattainment Area**

These standards only apply to **NEW** heating devices being **sold or installed** in the FNSB PM2.5 Nonattainment Area**.** Only **NEW** woodstoves that appear on this list and meet the emission standards may be sold or installed inside the nonattainment area. For woodstoves currently installed at a location, please refer to the following link to see if they need to be removed or if they may stay during a real estate transaction: <http://dec.alaska.gov/air/anpms/communities/fbks-pm2-5-real-estate/#lists>.

If a wood-fired heating device <350,000 Btu/hr meets the emission standards in 18 AAC 50.077 but does not appear on this list, contact DEC staff for guidance. In addition, if it appears a device has been listed incorrectly, contact Cory McDonald by phone (907) 451-5172 or by email [cory.mcdonald@alaska.gov](mailto:cory.mcdonald@alaska.gov).

DEC develops these lists by reviewing devices that have received EPA certification and where DEC has received a request by their manufacturer to review the underlying certification test report. DEC applies the standards found in 18 AAC 50.077.

|  |  |  |
| --- | --- | --- |
| **DEC Standards (INSIDE FNSB PM2.5 NONATTAINMENT AREA ONLY) – 18 AAC 50.077** | | |
| **Wood-Fired Heating Device Type** | **Particulate Matter Emission Standard** | **Effective Date** |
| Woodstoves  & Pellet Stoves  <350,000 Btu/hr | EPA Certification  AND  2.0 g/hr particulate matter annual average emission level  AND  Not exceed 6.0 grams per hour on any valid 1-hr filter pull from the device’s certification test  AND  DEC acceptance of underlying certification test results | 1/8/2020  9/1/2020 |

[More information and a map of the FNSB PM2.5 Nonattainment Area](https://dec.alaska.gov/air/burnwise/regulations/) is available online

**Summary of Changes:**

| **Change Type** | **Manufacturer** | **Models** | **Reason for Change** |
| --- | --- | --- | --- |
| Proposed Removal | Several | All devices where DEC cannot confirm the certification test results and/or where the manufacturer has not contacted DEC, these devices are highlighted in yellow. | Manufacturers have not adequately addressed certification report deficiencies, did not provide DEC with a statement committing to correcting deficiencies found, or devices whose certification report has expired or will possibly expire within the next 4 months. |

**As of February 1, 2022, all devices have been removed if DEC has not accepted or has insufficient data to make a determination based on review of the underlying certification test results as required under 18 AAC 50.077(c)(2). This is in addition to the removal of devices that do not meet the DEC standards summarized in the table above.**

**Highlighted devices (in yellow) are those devices that are due to be removed at the expiration of their milestone date (see transition list for more detail) if their report issues are not resolved by that time.**

**18 AAC 50.077(C)(3)(ii) states that alternative test methods (ATM), including broadly applicable test methods may be used in meeting the state standards if approved by both EPA and DEC. DEC continues to allow devices on the approved list that have been tested with alternative methods unless the device’s certification test report review indicates report issues. At this time ATMs may continue to be used until such time as either EPA or DEC formally disapproves their use.**

| **Approved Device List** | | | |
| --- | --- | --- | --- |
| **Manufacturer Name** | **Model Name** | **Annual Avg Emission Rate (grams/hr)** | **Heat Output**  **(BTU/hr)** |
| Blaze King Industries, Inc. | Ashford AF20.2, Chinook CK20.2, and Sirocco SC20.2 | 0.73 | 29785-8900 |
| Blaze King Industries, Inc. | Princess PE32 | 0.4 | 31478-10200 |
| Energy Distribution | Invicta Group: Kazan, Kazan GA, Kiara, and Kiara GA | 1.8 | 23830-23070 |
| Energy Distribution | Gaya Ardoise, Itaya, Onyx, Gaya Feuille, Symphonia, Antaya, Theïa, Akan | 1.9 | 33282-36774 |
| Hearth and Home Technologies | Vermont Castings Defiant 1975-CAT-C | 1.3 | 25471-11974 |
| HHT/Hearth and Home Tech | 21M-ACC-C, Discovery-1- | 1.7 | 13585-29322 |
| Hearth and Home Technologies | Quadra Fire Expedition II and Vermont Castings Montpelier II | 1.8 | 26785-24689 |
| Hearthstone Quality Home Heating Products Inc. | Green Mountain 40 (8640), Craftsbury 2 (8392), Hipster 14 | 1.1 | 31581-13876 |
| Hearthstone Quality Home Heating Products Inc. | Green Mountain 60 8660, Hipster 20 8260, and Shelburne 8372 | 0.6 | 33576-12608 |
| Hearthstone Quality Home Heating Products Inc. | Green Mountain 80 8680 | 0.67 | 33396-15069 |
| Hearthstone Quality Home Heating Products Inc. | Manchester 8362 | 0.65 | 33038-14111 |
| RSF / Industrial Chimney Company, Incorporated | OPEL PLUS Series: Opel+ 2C, Open+ 3C, Opel+ 4C, Opel+ Keystone | 0.7 | 27034-11723 |
| United States Stove Company | TH-100, US500E, AW520E, VG520, SW500 | 1.7 | 26028-10652 |
| Travis Industries | Medium Flush Wood NexGen-Hybrid | 1.2 | 39456-11076 |

Staff Contact:

Cory McDonald

[cory.mcdonald@alaska.gov](mailto:cory.mcdonald@alaska.gov)

907-451-5172