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: <u>http://dec.alaska.gov/air/anpms/communities/fbks-pm2-5-real-estate/#lists</u>.

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 <u>cory.mcdonald@alaska.gov</u>.

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.

Table 1. 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 | 1/8/2020 |
| | Not exceed 6.0 grams per hour on any valid 1-hr filter pull | |
| | from the device's certification test | 9/1/2020 |
| | AND | |
| | DEC acceptance of underlying certification test results | |
| | | |

More information and a map of the FNSB PM2.5 Nonattainment Area is available online



Table 2. Summary of Changes:

| Change Type | Manufacturer | Models | Reason for Change |
|----------------------|---|---|----------------------|
| Addition | Hearthstone Quality Home Heating Products Inc. | Green Mountain 80-1 (8681), Okemo (8380), Hipster 30 (8280) | Review |
| Provisional Addition | Travis Industries, Inc. | Liberty NexGen-Hybrid | Review |

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 ≤ 6 months from now at the expiration of their milestone date (see transition list for more detail) if their report issues are not resolved by that time.

Devices with an (*) next to their model name are approved provisionally until their certification expires or is renewed.

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.



Alaska Department of Environmental Conservation Division of Air Quality

Woodstove List Updated: 6-2025

Table 3. Approved Device List

| Manufacturer Name | Model Name | Annual Avg Emission Rate (g/hr) | Firebox Volume (cubic feet) | Heat Output (BTU/hr) |
|---|--|---|--------------------------------------|----------------------------|
| Blaze King Industries, Inc. | Princess PE32 | 0.55 | 2.86 | 11358- 34435 |
| Energy Distribution | Gaya Ardoise, Itaya, Onyx, Gaya Feuille, Symphonia, Antaya, Theïa, Akan | 1.9 | 2.31 | 33282- 36774 |
| Hearthstone Quality Home Heating Products Inc. | (*) Green Mountain 40 (8640), Craftsbury 2 (8392), Hipster 14 (AMB8240) | 1.1 | 1.32 | 13876- 31581 |
| Hearthstone Quality Home Heating Products Inc. | (*) Green Mountain 60 (8660), Hipster 20 (AMB8260), Shelburne (8372) | 0.6 | 2.03 | 12608- 33576 |
| Hearthstone Quality Home Heating Products Inc. | (*) Green Mountain 80 (8680) | 0.67 | 3.16 | 15069- 33396 |
| Hearthstone Quality Home Heating Products Inc. | Green Mountain 80-1 (8681), Okemo (8380), Hipster 30 (8280) | 0.53 | 3.16 | 14846- 33424 |
| Hearthstone Quality Home Heating Products Inc. | (*) Manchester (8362) | 0.65 | 2.45 | 14111- 33038 |
| Hearthstone Quality Home Heating Products Inc. | Lincoln (8060) | 1.1 | 1.00 | 14545- 20507 |
| Hearthstone Quality Home Heating Products Inc. | Castleton (8031) | 0.98 | 1.9 | 12501- 24540 |
| Hearth and Home Technologies | Quadra-Fire 21M-ACC-C, Discovery-1-C, FF-WP-100 | 1.7 | 1.48 | 13585- 29322 |
| Jotul U.S.A., Inc. | (*) F445 | 0.49 | 2.03 | 13212- 35722 |
| Kuma Stove And Iron Works | (*) K-181 Series: Aspen LE-1, Tamarack LE-1, Aberdeen LE- 1, and Alpine LE-1 | 1.1 | 1.82 | 12764- 29153 |
| RSF / Industrial Chimney Company, Inc. | (*) Opel+ Keystone-AK | 0.7 | 2.32 | 11723- 27034 |
| Travis Industries, Inc. | (*) Evergreen NexGen-Hybrid Free-Standing, Evergreen NexGen-Hybrid Insert | 1.2 | 2.180 | 10768- 31641 |
| Travis Industries, Inc. | (*) Rockport NexGen-Hybrid | 0.73 | 2.04 | 12594- 42722 |



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| Manufacturer Name | Model Name | Annual Avg Emission Rate (g/hr) | Firebox Volume (cubic feet) | Heat Output (BTU/hr) |
|-----------------------------|---|---|--------------------------------------|----------------------------|
| Travis Industries, Inc. | (*) Liberty NexGen-Hybrid | 0.9 | 4.14 | 11598- 47138 |
| Travis Industries, Inc. | 44 Elite NexGen-Hybrid | 1.1 | 4.2 | 12016- 54510 |
| Travis Industries, Inc. | 36 Elite NexGen-Hybrid | 0.6 | 3.14 | 10733- 47514 |
| Travis Industries, Inc. | Medium Flush Wood NexGen- Hybrid | 1.2 | 2.23 | 11076- 39456 |
| United States Stove Company | TH-100, US500E, AW520E, VG520, SW500, CH500, KW500, CGWS750 | 1.7 | 0.59 | 10652- 26028 |

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