

## 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 Steven Hoke by phone (907) 451-5172 or by email [steven.hoke@alaska.gov](mailto:steven.hoke@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 <u>AND</u> 2.0 g/hr particulate matter annual average emission level	1/8/2020
	<u>AND</u> <u>Not exceed 6.0 grams per hour on any valid 1-hr filter pull from the device's certification test</u> <u>AND</u> <u>DEC acceptance of underlying certification test results</u>	9/1/2020

[More information and a map of the FNSB PM2.5 Nonattainment Area](#) 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.
Added	Energy Distribution	Gaya Ardoise, Itaya, Onyx, Gaya Feuille, Symphonia, Antaya, Theia, Akan	EPA certified and manufacturer requested DEC review. Device has passed DEC's initial review and has therefore been added to the approved list.

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 (approximately 6/7/2022) 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.	King KE40	1.1	34985-11690
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
Blaze King Industries, Inc.	Sirocco SC25, Ashford AF25, Boxer 24 (BX24)	0.9	26290-10097
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, Theia, Akan	1.9	33282-36774
FPI/Regency Fireplace Products	F2500	1	50349-16746
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
HHT/Hearth and Home Technologies	QuadraFire 31M-ACC-C and QuadraFire Discovery-II-C	1.9	13951-29078
Hearth and Home Technologies	Quadra Fire 43M-ACC-C, 43ST-ACC-C, Discovery-III-C	1.6	36757-13239
Hearth and Home Technologies	Intrepid FlexBurn 2115-CAT	0.3	15906-10665
Hearth and Home Technologies	Quadra Fire Expedition II and Vermont Castings Montpelier II	1.8	26785-24689
Hearthstone Quality Home Heating Products Inc.	Bari, Bari Plus 8171 Hybrid	0.94	14065-26036
Hearthstone Quality Home Heating Products Inc.	Castleton 8031	0.7	24292-13781
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	0.6	33576-12608



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Manufacturer Name	Model Name	Annual Avg Emission Rate (grams/hr)	Heat Output (BTU/hr)
Hearthstone Quality Home Heating Products Inc.	Green Mountain 80 8680	0.67	33396-15069
Hearthstone Quality Home Heating Products Inc.	Heritage 8024	0.54	35845-12317
Hearthstone Quality Home Heating Products Inc.	Manchester 8362	0.65	33038-14111
Jotul North America (Jotul U.S.A., Inc.)	F 500 V3	0.5	38804-14001
MF Fire	Catalyst	1.9	28675-27220
Morso Jernstoberi A/S	1410B, 1440B, and 1450B	1.8	24733-13250
Pacific Energy Fireplace Products Limited	Summit LE, Summit Classic LE, Alderlea T6 LE, and Summit Insert LE	1.8	41275-16102
Pacific Energy Fireplace Products Limited	True North TN10	1.4	17623-13084
Pacific Energy Fireplace Products Limited	Vista LE, Vista Classic LE, NEO 1.6 LE, Neostone 1.6 LE, Alderlea T4 LE (Freestanding), NEO 1.6 LE	1.9	23186-13494
RSF / Industrial Chimney Company, Incorporated	Delta Fusion	1.3	34057-33721
RSF / Industrial Chimney Company, Incorporated	Focus 320 SBR and Onyx SBR	1.4	22563-21131
RSF / Industrial Chimney Company, Incorporated	OPEL PLUS Series: Opel+ 2C, Open+ 3C, Opel+ 4C, Opel+ Keystone	0.7	27034-11723
STUV AMERICA Inc.	30 Compact, 30 Compact-H, 30 Compact-one	1.8	17049-12550
United State Stove Company	US1269E	1.8	26300-29234
Vermont Castings	Vermont Castings Encore 2040-CAT-C	1.1	37102-12879



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