

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.

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 <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>	 1/8/2020 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
Added	United States Stove Company	US1269e	Relisted following manufacturer contact
Removed	Several	All devices where DEC cannot confirm the certification test results and/or where the	Manufacturers have not addressed certification report deficiencies or did not provide DEC with a statement committing to



Change Type	Manufacturer	Models	Reason for Change
		manufacturer has not contacted DEC	correcting deficiencies found.

As of February 1, 2021, 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. The highlighted devices are either devices that were tested using a method that was not referenced in the federal rule or whose certification test report deficiencies may be uncorrectable without a retest that conforms to test method and rule requirements. DEC has not approved the alternative method used, ASTM 3053, in accordance with 18 AAC 50.077(c)(3)(iii). It is anticipated that these devices are expected to be removed from the approved list when their milestone date (a date given to address test report issues) expires unless the manufacturer addresses their report issues.

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
Fireplace Products International Limited	F1150, I1150	1.7	39101-12777
FPI/Regency Fireplace Products	F1500 and I1500	1	20386-14244
FPI/Regency Fireplace Products	F2500	1	50349-16746



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Manufacturer Name	Model Name	Annual Avg Emission Rate (grams/hr)	Heat Output (BTU/hr)
FPI/Regency Fireplace Products	F3500	0.9	36174-10704
FPI/Regency Fireplace Products	I2450M and HI2450M	1.4	34612-14169
FPI/Regency Fireplace Products	I2500	1	42995-17178
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)	1.1	31581-13876
Hearthstone Quality Home Heating Products Inc.	Green Mountain 60 8660	0.6	33576-12608
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
Hussong Manufacturing Company, Inc.	Kozy Heat Z42	1.2	36231-12850
Jotul North America (Jotul U.S.A., Inc.)	F45V2	1.8	58657-16748



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Manufacturer Name	Model Name	Annual Avg Emission Rate (grams/hr)	Heat Output (BTU/hr)
Jotul North America (Jotul U.S.A., Inc.)	F 500 V3	0.5	38804-14001
Jotul North America (Jotul U.S.A., Inc.)	F 55 V2	1.3	84311-18962
MF Fire	Catalyst	1.9	28675-27220
Morso Jernstoberi A/S	1410B, 1440B, and 1450B	1.8	24733-13250
Pacific Energy Fireplace Products Limited	FP25LE, FP25AR LE	1.4	11005-51530
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	True North TN20	1.6	13931-29208
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
Stove Builder International Inc.	2.5 Series, Solution 2.5 ZC II, Stratford II, FP10 Lafayette II, FP12 Mundo II, Monaco II,	1.1	14222-48185
Stove Builder International Inc.	3.3 Series Osburn 3300, Austral III, Myriad III, Legend III, Escape 1900, Black Stag II, Solution 3.3, Gateway 3300	0.95	15841-57041



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Manufacturer Name	Model Name	Annual Avg Emission Rate (grams/hr)	Heat Output (BTU/hr)
Stove Builders International	1.7 Series - Archway 1700, Gateway 1700, Columbia II, Savannah II, Deco II, HE1170, HES170, FW2800	1.3	15650-23300
Stove Builders International	1.7 Series - Blackcomb II, Harmony 1.7, Solution 1.7, Osburn 1700, Inspire 1700, Escape 1500, Escape 1500-I, Solution 1.7-I, Destination 1.7-I, Osburn 1700-I, Matrix 1700-I, Inspire 1700-I	1.3	15650-23300
STUV AMERICA Inc.	30 Compact, 30 Compact-H, 30 Compact-one	1.8	17049-12550
Travis Industries	Answer	2	12129-59527
United State Stove Company	US1269E	1.8	26300-29234
United State Stove Company	US1100E, VG1120, AW1120E, CH11, NM680, SW1.2, and AHWS1120	1.7	15196-40594
United State Stove Company	US2000E, VG2020, AW2020E, CH20, NM890, SW2.0, and AHWS2020	1	15261-63196
United State Stove Company	US2500E, AW2520E, VG2520, CH25, NM1190, SW2.5, and AHWS2520	0.88	20374-60065
United States Stove Company	TR007E, US3200E VG3200, AW3200E	1.3	19778-67992
Vermont Castings	Vermont Castings Encore 2040-CAT-C	1.1	37102-12879

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