

**Docket ID No. EPA-HQ-OAR-2018-0195**

**ATTACHMENT F TO HEARTH, PATIO & BARBECUE ASSOCIATION COMMENTS**

U.S. EPA, “Certified Hydronic Heater List” (June 2018), *available at*  
<https://www.epa.gov/compliance/list-epa-certified-hydronic-heaters> (last visited Jan. 10, 2019)

USEPA Certified Hydronic Heaters June 2018

Manufacturer	Model Name	Model Number	Recommended Fuel	Annual Avg. Emission Rate (lb/mmBtu)	Max Heat Output Rating (Btu/hr)	8-hour Output Rating (BTU/hr)	Annual Average Efficiency (%HHV)	Annual Avg. Emission Rate (gr/hr)*	Carbon Monoxide (required for certifications under the 2015 NSPS) g/hr	Thermal Storage Required
Advanced Climate Technologies, LLC		CP 500	Pellets	0.03	532,000	532,000	88	NAC		X
Advanced Climate Technologies, LLC		CP 850	Pellets	0.02	840,000	840,000	88	NAC		X
Advanced Climate Technologies, LLC		CP 1000	Pellets	0.03	1,030,000	1,030,000	87	NAC		X
Advanced Climate Technologies, LLC		CP 1700	Pellets	0.01	1,650,000	1,650,000	89	NAC		X
Alternate Heating Systems	Wood Gun	E155	cord wood	0.32	147,632		53	5.09		
Central Boiler	E-Classic	1450	cord wood	0.18	214,000	120,529	78	4.70		
Central Boiler	E-Classic	3250 IR	cord wood	0.18	245,000	244,174	69	3.81		
Central Boiler	Maxim	M255P/M255PE	Pellets	0.04	165,215	165,215	82	0.80		
Central Boiler	Classic Edge	350	cord wood	0.18	177,802	67,702	79	3.60		
Central Boiler	Classic Edge	550	cord wood	0.31	162,170	81,168	70	5.20		
Central Boiler	Classic Edge	750	cord wood	0.18	240,362	186,669	72	4.60		
DECTRA	GARN	WHS-2000H	cord wood	0.07	200,000	105,050	74	1.69		
DECTRA	GARN	WHS-2000V	cord wood	0.07	200,000	105,050	74	1.69		
DECTRA	GARN	WHS-1500H	cord wood	0.14	177,000	87,179	65	2.88		
DECTRA	GARN	WHS-1500V	cord wood	0.14	177,000	87,179	65	2.88		
DECTRA	GARN	WHS-1000H and WHS-1000V	cord wood	0.2	160,000	160,000	77	NAC	0.47	
Earth Manufacturing, LLC	Klear Sky	400	cord wood	0.3	70,770	45,786	47	5.10		
Econoburn Boilers	EBW	200-170	cord wood	0.16	171,638		60	NAC		x
Effecta Energy Solutions		Komplett III Light 20 kW	pellets	0.02	68,000	68,000	85	NAC		X
Effecta Energy Solutions		Komplett III Light 25 kW	pellets	0.02	85,000	85,000	86	NAC		X
Effecta Energy Solutions		Komplett III Light 35 kW	pellets	0.02	120,000	120,000	85	NAC		X
Effecta Energy Solutions		Smart 55	Cord wood	0.04	183,573	183,573	83	NAC	0.64	x
Effecta Energy Solutions		Smart 40	Cord wood	0.07	142,600	142,600	75	NAC	0.40	X

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ESIM	USV	100GS	cord wood	0.20	350,367		61	7.55		
Evoworld, Inc		HP 14	Pellets	0.01	47,800	47,800	88	NAC		X
Evoworld, Inc		P 28	Pellets	0.02	94,200	94,200	85	NAC		X
Evoworld, Inc		P 50	Pellets	0.01	163,000	163,000	90	NAC		X
Evoworld, Inc		P 100	Pellets	0.02	360,000	360,000	88	NAC		X
Evoworld, Inc		P 200	Pellets	0.02	699,000	699,000	86	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 8	Pellets	0.04	35,800	35,800	88	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 15	Pellets	0.03	50,800	50,800	87	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 20	Pellets	0.03	68,200	68,200	87	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 25	Pellets	0.03	85,300	85,300	87	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 32	Pellets	0.03	109,000	109,000	87	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 38	Pellets	0.02	130,000	130,000	86	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 48	Pellets	0.03	164,000	164,000	86	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 60	Pellets	0.03	200,000	200,000	86	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 80	Pellets	0.03	273,000	273,000	87	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		P4 Unit 100	Pellets	0.03	341,000	341,000	88	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		T4-130	Pellets	0.02	444,000	444,000	85	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H		PE1 Pellet 35	Pellets	0.05	121,300	121,300	80	0.68	0.074	
Fröling Heizkessel- und Behälterbau Ges.m.b.H		PE1 Pellet 20	Pellets	0.05	67,744	67,744	78	0.42	0.073	
Fröling Heizkessel- und Behälterbau Ges.m.b.H		S3 Turbo 50	cord wood	0.12	166,194	166,194	73	NAC		X
Fröling Heizkessel- und Behälterbau Ges.m.b.H	FHG	20/30	cord wood	0.18	70,000		69	NAC		x
Fröling Heizkessel- und Behälterbau Ges.m.b.H		T4-150	Pellets	0.02	512,000	512,000	85	NAC		X
Greentech Manufacturing Inc.	Crown Royal	RS7400E	cord wood	0.24	296,192	116,597	61	8.00		

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Greentech Manufacturing Inc.	Crown Royal	RS7200E	cord wood	0.13	184,508	184,508	60	2.46		
Greentech Manufacturing Inc.	Crown Royal	RS7300E	cord wood	0.29	189,599	60,612	54	6.20		
Hardy Manufacturing Co., Inc.	KB	125	cord wood	0.3	119,457	60,261	61	4.10		
Hardy Manufacturing Co., Inc.	KB	165	cord wood	0.31	150,000	73,573	57	3.90		
Hawken Energy	GX Series	GX 10	cord wood	0.14	144,870	76,887	64	2.20		
Hawken Energy	GX Series	GX15	cord wood	0.18	176,116	73,234	70	3.70		
Hawken Energy	GX Series	GX30	cord wood	0.17	242,090	104,865	67	4.90		
Heatmor		400-4S	cord wood	0.28	400,000	160,599	76	10.70		
Heatmor	X Series	200X	cord wood	0.3	184,459	54,019	62	8.10		
Heatmor		350X	cord wood	0.31	255,582	89,753	58	9.20		
Heatmor	200 SSP	200 SSP	cord wood	0.32	180,000	162,793	69	NAC		
Heizomat Canada, Inc.		RHK AK 30	pellets	0.04	142,000	142,000	86	NAC		X
Hydronic Specialty Supply, Inc.	Drummer	Drummer 35	cord wood	0.32	115,000		60	NAC		x
LMF Manufacturing Ltd.		AHB-170P	pellets	0.99	77,771		54		0.47	
Mahoning Outdoor Furnace	Mahoning Skye	Series V	cord wood	0.18	110,000	82,594	54	2.40		
Maine Energy Systems, LLC		PE16	pellets	0.02	57,000	57,000	86	NAC		x
Maine Energy Systems, LLC		PE32	pellets	0.02	109,000	109,000	85	NAC		x
Maine Energy Systems, LLC		PE64	pellets	0.02	229,000	229,000	87	NAC		x
Maine Energy Systems, LLC	PE/PES	12-20	pellets	0.07	67,694		75	0.70		
Maine Energy Systems, LLC	PES	25-32	pellets	0.06	99,797		81	0.80		
Maine Energy Systems, LLC	PE/PES	36-56	pellets	0.07	199,408		86	1.70		
Maine Energy Systems, LLC	EasyPell	16-20kW	pellets	0.10	68,000		75			
Marway Welding	Phase	2-200	cord wood	0.26		139,576	65,336	39	3.75	

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Nature's Comfort LLC	GT Series	GT-6000	cord wood	0.22	250,000	100,959	73	5.70		
NBE Production	Kedel	RTB54	pellets	0.08	60,000		70	0.68		
NBE Production	Kedel	RTB102	pellets	0.07	87,379		73	0.87		
NBE Production	Kedel	RTB170	pellets	0.08	162,000		79	1.76		
NBE Production	Kedel	RTB54(TS)	pellets	0.03	58,000	58,000	85	NAC		x
NBE Production	Kedel	RTB102(TS)	pellets	0.04	86,000	86,000	85	NAC		x
NBE Production	Kedel	RTB170(TS)	pellets	0.04	156,000	156,000	86	NAC		x
Northwest Mfg Inc	Woodmaster	Ultra 30	pellets	0.09	102,716	102,716	59	1.60		
Northwest Mfg Inc	Woodmaster	CleanFire 400	cord wood	0.07	102,408	102,408	67	1.04		
Northwest Mfg Inc	Woodmaster	Mini Boiler	pellets	0.11	101,577	101,577	65	1.40		
LLC/Windhager Zentralheizung Technik GmbH		Alpha-60	pellets	0.02	51,900	51,900	86	NAC		x
LLC/Windhager Zentralheizung Technik GmbH		Alpha-100	pellets	0.01	88,400	88,400	86	NAC		x
Piney Manufacturing	Optimizer	350	cord wood	0.30	400,000	160,421	65	7.30		
Piney Manufacturing	Enviro Chip	500	wood chips	0.19	280,000		73	5.40		
Polar Furnace Manufacturing Inc.	G-Class	G3	cord wood	0.08	200,000	142,533	72	1.96		
Polar Furnace Manufacturing Inc.	G-Class	G-Class G2Plus	cord wood	0.07	183,307	108,982	73	1.34	1.70	
Polar Furnace Manufacturing Inc.	G-Class	G2	cord wood	0.19	200,000	66,897	67	3.53		