



P-K SONIC®

Competition Comparison Guide



PATTERSON-KELLEY

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LOW CAPACITY COMPETITIVE MATRIX SONIC® vs. COMPETITION

BOILER RATINGS	PATTERSON KELLEY				LOCHNIVAR			AERCO	
	PK SONIC SC650	PK SONIC SC 750	PK SONIC SC 850	PK SONIC SC 1000	CREST FB751	CREST FB1001	CREST FB1251	BENCH-MARK 750	BENCH-MARK 1000
EFFICIENCY	94.1%	94.1%	94.1%	92.3%	96%	96%	96%	95%	96%
BTU	650,000	750,000	850,000	1,000,000	750,000	999,000	1,250,000	750,000	1,000,000
MAX BTU/HR OUTPUT	611,650	705,750	799,850	923,000	722,000	961,000	1,203,000	720,000	960,000
TURNDOWN RATIO	5:1	6:1	6:1	7:1	25:1	25:1	20:1	15:1	20:1
STYLE	WATER TUBE	WATER TUBE	WATER TUBE	WATER TUBE	FIRETUBE	FIRE TUBE	FIRE TUBE	FIRE TUBE	FIRE TUBE
NATURAL GAS, PROPANE OR DUAL FUEL	NG,LP,DF	NG,LP,DF	NG,LP,DF	NG,LP,DF	NF, LP,DF	NG,LP,DF	NG,LP,DF	NG,LP	NG,LP
MIN FLOW RATE (GPM)	25	25	30	30	18	18	18	12	12
NOX LEVELS	<10 PPM	<10 PPM	<10PPM	<10 PPM	<20 PPM	<20 PPM	<20 PPM	<20 PPM	<20 PPM
HORSEPOWER	18	21	24	28	22	30	37	21	28
ELECTRICAL REQUIREMENTS	120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ
DIMENSIONS	PATTERSON KELLEY				LOCHNIVAR			AERCO	
DEPTH (IN)	54	54	54	54	57 5/8	57 5/8	57 3/4	24.5	25
WIDTH (IN)	25	25	25	25	30	30	30	28	28
HEIGHT (IN)	51	51	51	51	78	78	78	78	78
AIR INLET SIZE (IN)	6	6	6	6	6	6	8	6	6
AIR VENT SIZE (IN)	6	6	6	6	6	6	6	6	6
WEIGHT	PATTERSON KELLEY				LOCHNIVAR			AERCO	
DRY (LBS)	780	780	800	810	1,560	1,596	1,648	669	700
OPERATING (LBS)	780	780	800	810	1,768	1,838	1,975	862	900

SONIC® INNOVATIONS



SMARTER STAINLESS STEEL DESIGN FOR A LONGER LIFE AND GREATER DURABILITY



60% SMALLER THAN THE LEADING COMPETITION



FRONT DOOR ACCESSIBILITY REDUCES REPAIR AND MAINTENANCE COSTS



PERFECT FOR NEW INSTALLATION AND RETROFIT PROJECTS



ENERGY EFFICIENCY CAN SIGNIFICANTLY LOWER THE TOTAL COST OF OWNERSHIP OVER THE LIFE OF THE EQUIPMENT

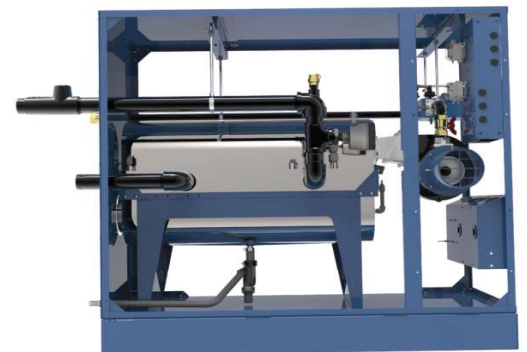


INTEGRATES SEAMLESSLY WITH YOUR EXISTING HYDRONIC SYSTEM



PATTERSON-KELLEY

LAARS			CLEAVERBROOKS		
NEOTHERM 600	NEOTHERM 750	NEOTHERM 850	CLEARFIRE CFCE 500	CLEARFIRE CFCE 750	CLEARFIRE CFCE 1000
95%	96%	95%	94%	94%	94%
600,000	750,000	850,000	500,000	750,000	1,000,000
572,000	724,000	813,000	470,000	705,000	940,000
5:1	5:1	5:1	5:1	5:1	10:1
WATER TUBE	WATER TUBE	WATER TUBE	FIRE TUBE	FIRE TUBE	FIRE TUBE
NG,LP	NG,LP	NG,LP	NG,LP	NG,LP	NG,LP
29	36	41	24	36	47
<10 PPM	<10 PPM	<10 PPM	<20 PPM	<20 PPM	<20 PPM
17	21	24	14	21	28
120V 1PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	115V 1PH 60HZ	115V 1PH 60HZ	115V 1PH 60HZ
LAARS			CLEAVERBROOKS		
37 3/4	51	55 1/4	49.4	49.4	49.4
25	25	25	34.9	34.9	34.9
38 1/4	38 1/4	38 1/4	78	78	78
6	6	6	6	6	6
6	6	6	6	6	8
LAARS			CLEAVERBROOKS		
626	681	703	1298	N/A	1396
780	804	857	2065	N/A	2113



NURO® TOUCH-SCREEN CONTROL SYSTEM

The NURO® Touch-Screen Control System with NURO® Connect provides the most intuitive interface in the industry, coming **standard on all SONIC® models**. It monitors and modulates the combustion and ignition of the boiler to maintain the desired outlet temperature. The lead/lag setup and boiler start rotation ensures run times are equally distributed across each unit in the system, extending the life of the boilers. Whether using a desktop or mobile device, NURO® Connect allows for quick, easy modification of system parameters and optimal efficiency.



HIGH CAPACITY COMPETITIVE MATRIX SONIC® vs. COMPETITION

BOILER RATINGS	PATTERSON KELLEY				LOCHNIVAR				
	PK SONIC SC1500	PK SONIC SC2000	PK SONIC SC3000	PK SONIC SC4000	CREST FB1501	CREST FB2001	CREST FB3001	CREST FB4001	BENCH-MARK 1500
EFFICIENCY	97.1%	96.4%	96.9%	96%	96%	96%	96%	96%	94.6%
BTU	1,500,000	2,000,000	3,000,000	4,000,000	1,500,000	2,000,000	3,000,000	4,000,000	1,500,000
MAX BTU/HR OUTPUT	1,456,000	1,928,000	2,907,000	3,840,000	1,443,000	1,923,000	2,883,000	3,843,000	1,425,000
TURNDOWN RATIO	5:1	5:1	5:1	5:1	25:1	25:1	20:1	12:1	20:1
STYLE	WATER TUBE	WATER TUBE	WATER TUBE	WATER TUBE	FIRETUBE	FIRE TUBE	FIRE TUBE	FIRE TUBE	FIRE TUBE
NATURAL GAS, PROPANE OR DUAL FUEL	NG,LP,DF	NG,LP,DF	NG,LP,DF	NG,LP,DF	NF, LP,DF	NG,LP,DF	NG,LP,DF	NG,LP,DF	NG,LP,DF
MIN FLOW RATE (GPM)	48	48	72	96	25	25	25	45	25
NOX LEVELS	<10 PPM	<10 PPM	<10 PPM	<10PPM	<20 PPM	<20 PPM	<20 PPM	<20 PPM	<9 PPM
HORSEPOWER	43	57	86	115	45	58	90	119	42
ELECTRICAL REQUIREMENTS	208/240V 1PH 60HZ	208/240V 1PH 60HZ	440/480V 3PH 60HZ	440/480V 3PH 60HZ	120V 1PH 60HZ	120V 1PH 60HZ	208V 3PH 60HZ	480V 3PH 60 HZ	120V 1PH 60HZ
DIMENSIONS	PATTERSON KELLEY				LOCHNIVAR				
DEPTH (IN)	65	65	66	66	67 3/4	66 1/2	83 3/4	103 1/2	43.6
WIDTH (IN)	31	31	32	32	30	30	35	45 1/2	28
HEIGHT (IN)	69	69	69	69	78	78	77 3/4	77 3/4	78
AIR INLET SIZE (IN)	12	12	12	12	8	8	10	12	6
AIR EXHAUST SIZE (IN)	10	10	10	10	8	8	10	12	6
WEIGHT	PATTERSON KELLEY				LOCHNIVAR				
DRY (LBS)	1400	1400	1900	1900	1,961	2,087	2,881	3,805	1406
WET (LBS)	1650	1650	2141	2191	2,307	2,570	3,900	5,200	1606

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INTEGRATES SEAMLESSLY WITH YOUR EXISTING HYDRONIC SYSTEM

AERCO			LAARS			CLEAVERBROOKS			
BENCH-MARK 2000	BENCH-MARK 3000	BENCH-MARK 4000	MAGNA-THERM 2000	MAGNA-THERM 3000	MAGNA-THERM 4000	CLEARFIRE CFCE 1500	CLEARFIRE CFCE 2000	CLEARFIRE CFCE 3500	CLEARFIRE CFCE 4000
94.6%	93.5%	95%	95%	95%	95%	95%	95%	95%	92%
2,000,000	3,000,000	4,000,000	2,000,000	3,000,000	4,000,000	1,500,000	2,000,000	3,500,000	4,000,000
1,900,000	2,880,000	3,920,000	1,895,000	2,814,000	3,800,000	1,410,000	1,880,000	3,290,000	3,760,000
20:1	15:1	15:1	20:1	20:1	20:1	5:1	5:1	10:1	10:1
FIRE TUBE	FIRE TUBE	FIRE TUBE	WATER TUBE	WATER TUBE	WATER TUBE	FIRE TUBE	FIRE TUBE	FIRE TUBE	FIRE TUBE
NG,LP,DF	NG,LP,DF	NG	NG,LP	NG,LP	NG,LP	NG,LP	NG,LP	NG,LP	NG,LP
25	25	35	11	16	21	24	31	55	63
<9 PPM	<13 PPM	<9 PPM	<10 PPM	<10 PPM	<10 PPM	<20 PPM	<20 PPM	<20 PPM	<20 PPM
56	90	N/A	55	79	113	42	56	98	112
120V 1PH 60HZ	208V/460V 3PH 60HZ	460V 3PH 60HZ	120V 1PH 60HZ	208V 3PH 60 HZ	208V 3PH 60HZ	115V 1PH 60HZ	115V 1PH 60HZ	460V 3PH 60HZ	460V 3PH 60HZ
AERCO			LAARS			CLEAVERBROOKS			
43.6	56	63.5	57.5	60.5	70	33	33	45.7	45.7
28	28	34	29.3	30.8	34.5	35.8	35.8	48.4	48.4
78	78	78.2	79.8	87	97	79.9	79.9	91.2	91.2
8	8	12	8	10	12	8	8	12	12
8	8	12	8	10	12	8	8	12	12
AERCO			LAARS			CLEAVERBROOKS			
1500	2170	2200	1390	1785	2278	1862	2041	3575	3760
1700	2300	2350	1562	2039	2742	1986	2166	3725	3915

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HOW DO WE COMPARE?

	PATTERSON KELLEY	LOCHNIVAR	AERCO	LAARS	CLEAVER BROOKS
NATURAL GAS, PROPANE AND DUAL FUEL AT ALL SIZES	✓	✓	X	X	X
EFFICIENCY UP TO 97%	✓	X	X	X	X
TOUCHSCREEN CONTROL SYSTEM STANDARD ON ALL ABOVE LISTED MODELS	✓	✓	X	✓	✓
FITS THROUGH EXISTING 36" DOORWAY AT ALL LISTED SIZES	✓	X	✓	✓	X
EASY REMOVABLE PANELS ON MULTIPLE SIDES FOR QUICK REPAIR ACCESS	✓	✓	✓	X	✓
ULTRA LOW NOX (BELOW 10 PPM)	✓	X	X	✓	X

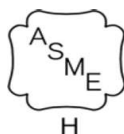
BASED ON MODEL NUMBERS ABOVE. ABOVE SPECS MAY CHANGE WITHOUT NOTICE.

SONIC® CERTIFICATIONS

COMPLIANT WITH ALL MAJOR REBATE PROGRAMS

GE GAP (IRI) GAP.4.1.0 AND GAP.4.1.3

FM GLOBAL 6-4/12-69



ASME Code Section IV
Applies to Heating Boilers



ANSI 721.13
CSA 4.9



Canada (Gas Appliances)
U.S. (Gas Appliance)

PLEASE REVIEW OUR SONIC DOCUMENTS FOR ANSWERS TO SPECIFIC PRODUCT QUESTIONS

Patterson-Kelley, a division of SPX Corporation, is the leading provider and producer of commercial hot water heating solutions. With over 135 years of experience and an innovative R&D pipeline, we provide a full line of condensing and non-condensing boilers, semi-instantaneous water heaters, and an array of commercial boiler and water heating products including gas fired, dual fuel and outdoor boilers.

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