PATTERSON-KELLEY

P-K SOLIS™

Patterson-Kelley's First Firetube Boiler

INTRODUCING THE P-K SOLIS™

The P-K SOLIS™ vertical firetube boiler leads Patterson-Kelley into the condensing firetube market.This top of the line, highly efficient, condensing boiler is designed to maximize comfort without sacrificing savings. Every P-K SOLIS™ model features a unique geometric design that optimizes heat transfer, resulting in efficienices up to 97%, 10:1 mechanical turndown, and ultra-low NOx emissions.

The stainless-steel heat exchanger in the P-K SOLIS™ is designed to maximize heat and overall efficiency. This 316 stainless steel tube and tube sheet provides extended corrosion resistance to the unit with a 304 SS heat exchanger shell for additional thermal resistance.

The heat exchanger is designed to provide ease of access for simplified and quick maintenance. The heat exchanger top panel door swings open for full access to the tubes and burner inside the unit. Our removable integrated condensate tray allows for quick and cost-effective maintenance.

AVAILABLE MODELS

SL-725   (725 MBTU)
SL-850   (850 MBTU)
SL-1000 (1000 MBTU)
SL-1500 (1500 MBTU)
SL-2000 (2000 MBTU)

SL-2500 (2500 MBTU)
SL-3000 (3000 MBTU)

FEATURES

✓ 725-3000 MBTU

✓ Up to 97% Thermal Efficiency

✓ 10:1 Mechanical Turndown

✓ Removable and Hinged Door Panels Allow Quick Access to the Firetubes and Burner for Easy Maintenance

✓ Zero-Clearance Capable for Side-by-Side Installation or Close Boiler Room Application

✓ Ultra-Low NOx Emissions

STAINLESS STEEL DESIGN PROVIDES A LONGER LIFE AND GREATER RELIABILITY

INTEGRATES SEAMLESSLY WITH YOUR EXISTING HYDRONIC SYSTEM

PERFECT FOR NEW INSTALLATION AND RETROFIT PROJECTS

SMALL ENOUGH TO FIT THROUGH A STANDARD 36" DOORWAY

Easy to Set-up:
Setup Wizard provides guided setup for virtually all applications.

Easy to Use:
Simple touch-screen technology adjusts boiler controls with a swipe of the finger.

Easy to Connect:
NURO Connect® gives access to data anywhere with an internet connection.

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Patterson-Kelley's Big New Star

BOILER RATINGS	SL-725	SL-850	SL-1000	SL-1500	SL-2000	SL-2500	SL-3000
EFFICIENCY	97.7%	97.5%	96%	96%	96%	96%	96%
MAX BTU/HR INPUT	725,000	850,000	1,000,000	1,500,000	2,000,000	2,500,000	3,000,000
MAX KW INPUT	212	249	293	400	586	733	879
MAX BTU/HR OUTPUT	708,000	829,000	960,000	1,440,000	1,920,000	2,400,000	2,880,000
MAX KW OUTPUT	203.98	239.15	281.35	422.0223	562.6965	703.3706	844.0447
MIN FLOW @ IGNITION (GPM)	17.4	20.4	24	33	43	46	46
MIN FLOW RATE (GPM)	1.102	1.292	10	20	20	25	25
MIN BTU/HR INPUT	72,500	85,000	100,000	150,000	200,000	250,000	300,000
MIN KW INPUT	21	25	29	44	59	73	88
MIN BTU/HR OUTPUT	69,600	81,600	96,000	144,000	192,000	240,000	300,000
MIN KW OUTPUT	20.40	23.91	28.13	42.2022	56.2696	70.3371	84.4045
MECHANICAL TURNDOWN	10:1	10:1	10:1	10:1	10:1	10:1	10:1
FUEL TYPE (NG, LP, DF)	NG	NG	NG	NG	NG	NG	NG

DIMENSIONS	SL-725	SL-850	SL-1000	SL-1500	SL-2000	SL-2500	SL-3000
DEPTH (IN)	38.2	38.2	57	77.3	77.3	80	80
WIDTH (IN)	24.9	24.9	30.2	35	35	35	35
HEIGHT (IN)	49.8	49.8	78.5	80	80	80	80

OPERATING PARAMETERS	SL-725	SL-850	SL-1000	SL-1500	SL-2000	SL-2500	SL-3000
BOILER HP	21.7	25.4	29.9	44.8	59.7	74.7	89.6
MAX INLET GAS PRESSURE	14	14	14	14	14	14	14
MIN INLET GAS PRESSURE	3.5	3.5	3.5	3.5	3.5	3.5	3.5
SHIPPING WEIGHT (LBS/KILOS)	635	635	1750/795	2445/1111	2445/1111	2650/1204	2650/1204
ELECTRICAL REQUIREMENTS	120V 1PH 60hz 10 amps	120V 1PH 60hz 10 amps	120V 1PH 60hz 10 amps	208/240V 1PH 60hz 15 amps	208/240V 1PH 60hz 10 amps	220/480V 3PH 60hz 30 amps	220/480V 3PH 60hz 30 amps
OPERATING WEIGHT (LBS/KILOS)	665	665	2150/977	3000/1363	3000/1363	3470/1577	3470/1577
FLOW RATE 20°F ΔT GPM	69.6	81.6	96	144	192	240	288
FLOW RATE 20°F ΔT LPS	4.408	5.168	6.08	9.12	12.16	15.2	18.24
ACCEPTABLE VENT MATERIALS	AL29-4C, 316L SS, CPVC, POLYPROPYLENE, CAT II, CAT IV						
NON-ACCEPTABLE VENT MATERIALS	PVC						

10:1 Mechanical Turndown

10:1 mechanical turndown is the standard on all P-K SOLIS™ units. Patterson-Kelley has achieved higher turndown with a unique process that allows the gas valves to reliably turn down without adding excess air. This allows designers the ability to match input to building loads without sacrificing reliability or efficiency.

NURO® Touchscreen Control System

Every SOLIS™ comes standard with our proprietary NURO® Control System. Designed to maximize overall boiler efficiency, the NURO utilizes the most advanced technology available in an easy-to-use package. This ensures efficient and reliable boiler performance year round.