

# P-K STORM<sup>®</sup>

## Stainless Steel Condensing Boiler

### Introducing the P-K STORM<sup>®</sup>

Built to transform the commercial boiler market, highly efficient condensing boiler is designed to provide long-term savings in energy cost. The P-K STORM<sup>®</sup> water-tube boiler is considered the greatest alternative to fire-tube technology by industry experts. It operates at up to 97% thermal efficiency with 10:1 mechanical turndown capabilities.



### EQUIP OUTDOOR TECHNOLOGY

*Factory assembled and tested for outdoor installations with efficiencies up to 97% and 10:1 mechanical turndown rate.*



### FEATURES

- ✓ 650-8000 MBTU
- ✓ Up to 97% thermal efficiency
- ✓ 316L Stainless steel coil ensures maximum corrosive resistance and durability
- ✓ Full modulation burner with up to 10:1 mechanical turndown
- ✓ Cabinet and heat exchanger design reduce repair and maintenance costs
- ✓ Low pressure drops across the unit



#### **SIMPLIFIED SERVICEABILITY:**

HEAT EXCHANGER DOOR SWIVELS OPEN TO PROVIDE FULL ACCESS TO THE TUBES AND BURNER INSIDE THE UNIT



#### **SIGNIFICANTLY LOWER WATER PRESSURE DROPS:**

REDUCES COST BY REQUIRING SMALLER PUMPS AND LESS ELECTRICAL ENERGY



#### **10:1 MECHANICAL TURNDOWN:**

ALLOWS FLEXIBILITY TO MATCH INPUT TO BUILDING LOADS, AND DOES NOT INTRODUCE EXCESS AIR ALLOWING MAXIMUM THERMAL EFFICIENCY

### IS THERE A STORM IN YOUR FORECAST?

*Get access to the most innovative and efficient water tube technology on the market.*





# P-K STORM®

Taking the commercial boiler industry by *STORM*

BOILER RATINGS	ST650	ST800	ST1000	ST1250	ST1500	ST1750	ST2000	ST2500	ST3000	ST3500	ST4000	ST5000	ST6000	ST8000
<b>EFFICIENCY</b>	96%	96%	96%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	95.5%
<b>MAX BTU/HR INPUT</b>	650,000	800,000	1,000,000	1,250,000	1,500,000	1,750,000	2,000,000	2,500,000	3,000,000	3,500,000	4,000,000	4,999,999	6,000,000	8,000,000
<b>MAX KW INPUT</b>	190.5	234.46	29307	366	439.6	512.8	586	1250	732.6	1025.7	1172.2	1465.4	1758.4	2344.6
<b>MAX BTU/HR OUTPUT</b>	624,650	765,600	964,000	1,212,500	1,455,000	1,697,500	1,940,000	2,425,000	2,910,000	3,395,000	3,880,000	4,849,999	5,820,000	7,640,000
<b>MAX KW OUTPUT</b>	183.07	224.38	282.5	355.3	426.4	497.4	568.5	710.6	852.8	994.9	1137.1	1421.4	1705.7	2239.1
<b>MIN FLOW @ IGNITION (GPM)</b>	17.85	21.87	27.5	35	42	49	55	69	83	97	111	139	166	172
<b>MIN FLOW @ IGNITION (LITRES/SEC)</b>	1.13	1.4	1.7	2.2	2.6	3.1	3.5	4.4	5.3	6.1	7	8.8	10.5	10.9
<b>MIN BTU/HR INPUT</b>	65,000	80,000	100,000	125,000	150,000	175,000	200,000	250,000	300,000	350,000	400,000	500,000	600,000	800,000
<b>MIN KW INPUT</b>	19.05	23.4	29.3	36.6	43.9	51.2	58.6	73.2	87.9	102.5	117.2	146.5	176	234.5
<b>MIN BTU/HR OUTPUT</b>	62,465	76,560	96,400	121,250	145,500	169,750	194,000	242,500	291,000	339,500	388,000	485,000	582,000	764,000
<b>MIN KW OUTPUT</b>	18.31	22.4	28.2	35.3	42.4	49.5	56.6	71	85.2	99.4	113.7	142.1	170.6	223.9
<b>INDOOR/OUTDOOR</b>	INDOOR/ OUTDOOR	INDOOR/ OUTDOOR	INDOOR/ OUTDOOR	INDOOR/ OUTDOOR	INDOOR/ OUTDOOR	INDOOR/ OUTDOOR	INDOOR/ OUTDOOR	INDOOR	INDOOR	INDOOR	INDOOR	INDOOR	INDOOR	INDOOR
<b>MECHANICAL TURNDOWN</b>	10:1 / 5:1	10:1 / 5:1	10:1 / 5:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1
<b>LP=Liquid Propane NG=NATURAL GAS</b>	NG / LP	NG / LP	NG / LP	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
<b>DEPTH (IN / MM)</b>	58.3 / 1482	58.3 / 1482	58.3 / 1482	62 / 1581	62 / 1581	62 / 1581	62 / 1581	68 / 1736	68 / 1736	90 / 2286	90 / 2286	103 / 2616	103 / 2616	103 / 2616
<b>WIDTH (IN / MM)</b>	26.1 / 664	26.1 / 664	26.1 / 664	34 / 867	34 / 867	34 / 867	34 / 867	44 / 1121	44 / 1121	44 / 1121	44 / 1121	44 / 1118	44 / 1118	44 / 1118
<b>HEIGHT (IN / MM)</b>	45.7 / 1164	45.7 / 1164	45.7 / 1164	59 / 1504	59 / 1504	59 / 1504	59 / 1504	67 / 1697	67 / 1697	67 / 1697	67 / 1697	73 / 1854	73 / 1854	73 / 1854
<b>BOILER HP</b>	19.4	23.9	23.9	36	43	50	57	72	87	101	116	149	179	239
<b>MAX INLET GAS PRES- SURE NG (INCHES WC)</b>	14	14	14	14	14	14	14	14	14	14	14	14	14	14
<b>MIN INLET GAS PRES- SURE NG (INCHES WC)</b>	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
<b>SHIPPING WEIGHT (LBS/KILOS)</b>	663 / 301.3	705 / 320.5	770 / 350	1070 / 485.3	1150 / 521.6	1220 / 553.3	1220 / 553.3	2200 / 998	2200 / 998	2600 / 1179	2600 / 1179	3200 / 1452	3200 / 1452	3200 / 1452
<b>ELECTRICAL REQUIREMENTS</b>	120V 1ph 60hz <6 amps	120V 1ph 60hz <6 amps	120V 1ph 60hz <10 amps	208-240V 1ph 60hz 20 amps	208-240V 1ph 60hz 20 amps	208-240V 1ph 60hz 20 amps	208-240V 1ph 60hz 20 amps	208- 240/480V 3ph 60hz 20 amps	208- 240/480V 3ph 60hz 20 amps	208- 240/480V 3ph 60hz 20 amps	208- 240/480V 3ph 60hz 20 amps	208- 240/480V 30/15 amps	208- 240/480V 30/15 amps	208- 240/480V 30/15 amps
<b>OPERATING WEIGHT (LBS/KILOS)</b>	625	660 / 301	705 / 320.5	1112 / 504.3	1208 / 547.9	1305 / 592	1305 / 592	2329 / 1056	2329 / 1056	2772 / 1257	2772 / 1257	3700 / 1678	3700 / 1678	3700 / 1678
<b>FLW RATE 20°F ΔT GPM (LT/SEC)</b>	62.5 / 4	76.6 / 4.8	96.4 / 6.1	121 / 7.7	145 / 9.2	170 / 11	194 / 12	242 / 15	291 / 18.4	339.5 / 21.5	388 / 25	485 / 31	582 / 37	764 / 48
AL29-4C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
316L SS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PVC	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
CPVC*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
POLYPROPYLENE* <sup>NEW</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CAT II	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CAT IV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\*Canada: When this material is used for venting , it must be listed ULC-S6236 / USA: When this material is used for venting , it must be listed UL-1738

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