



# KNIGHT<sup>®</sup> BOILER PRODUCT SUMMARY

(KB) 80,000 - 285,000 BTU/HR

	KB-081	KB-106	KB-151	KB-211	KB-286
<b>WATER</b>					
GALLON CAPACITY	0.6	0.7	1.3	1.7	2.4
HEATING SURFACE (SQ. FT.)	7.3	9.1	16.4	21.8	29.1
WATER CONNECTIONS	1"	1"	1"	1"	1-1/4"
DRAIN	3/4"	3/4"	3/4"	3/4"	3/4"
20°F ΔT WATER FLOW (GPM)	7.5	9.8	14.0	19.6	26.5
HEAD LOSS (FT. OF HD.)	24.0	27.0	20.0	29.0	15.0
35°F ΔT WATER FLOW (GPM)	4.2	5.5	7.9	11.0	15.0
HEAD LOSS (FT. OF HD.)	7.3	9.3	9.5	9.1	7.3
MAX. WORKING PRESSURE (PSI)	160	160	160	160	160
# OF RELIEF VALVES	1	1	1	1	1
RELIEF VALVE SIZE	3/4"	3/4"	3/4"	3/4"	3/4"
RELIEF VALVE RATING (MBH)	510	510	510	510	510
RELIEF VALVE PRESSURE RATING (PSI)	30	30	30	30	30
<b>GAS</b>					
INLET CONNECTION	1/2"	1/2"	1/2"	1/2"	3/4"
MAX. INLET PRESSURE, NAT	10.5" w.c.	10.5" w.c.	10.5" w.c.	10.5" w.c.	10.5" w.c.
MIN. INLET PRESSURE, NAT	4.0" w.c.	4.0" w.c.	4.0" w.c.	4.0" w.c.	4.0" w.c.
MAX. INLET PRESSURE, LP	13.0" w.c.	13.0" w.c.	13.0" w.c.	13.0" w.c.	13.0" w.c.
MIN. INLET PRESSURE, LP	8.0" w.c.	8.0" w.c.	8.0" w.c.	8.0" w.c.	8.0" w.c.
BTU/HR INPUT	80,000	105,000	150,000	210,000	285,000
BTU/HR OUTPUT (HIGH FIRE)	76,000	99,750	142,500	199,500	270,750
BTU/HR OUTPUT (LOW FIRE)	15,200	19,950	28,500	39,900	54,150
<b>ELECTRICAL</b>					
VOLTAGE/HEATER	120	120	120	120	120
VOLTAGE/CONTROL	24	24	24	24	24
TOTAL AMPS	0.5	0.5	1.0	1.2	1.5
# OF ELECTRICAL CONNECTIONS	1	1	1	1	1
<b>DIMENSIONS</b>					
HEIGHT	33-1/4"	33-1/4"	33-1/4"	33-1/4"	42-1/2"
WIDTH	15-1/2"	15-1/2"	15-1/2"	15-1/2"	15-1/2"
DEPTH	14"	14"	18"	22-1/4"	19-3/4"
<b>SERVICE CLEARANCES</b>					
FRONT	24"	24"	24"	24"	24"
BACK	14"	14"	14"	14"	14"
RIGHT SIDE	0"	0"	0"	0"	0"
LEFT SIDE (PIPING)	24"	24"	24"	24"	24"
TOP	24"	24"	24"	24"	24"
<b>DIRECT VENTING</b>					
SIZE	3"	3"	3"	3"	4"
VENT CATEGORY	IV	IV	IV	IV	IV
VENT MATERIAL	PVC	PVC	PVC	PVC	PVC

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