



KNIGHT[®] BOILER PRODUCT SUMMARY

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

	KB-080	KB-105	KB-150	KB-210	KB-285
WATER					
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
GAS					
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)	72,000	97,000	135,000	190,000	260,000
BTU/HR OUTPUT (LOW FIRE)	14,400	19,400	27,000	38,000	52,000
ELECTRICAL					
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
DIMENSIONS					
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"
SERVICE CLEARANCES					
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"
DIRECT VENTING					
SIZE	3"	3"	3"	3"	4"
VENT CATEGORY	IV	IV	IV	IV	IV
VENT MATERIAL	PVC	PVC	PVC	PVC	PVC