



Lochinvar[®]
High Efficiency Water Heaters, Boilers and Pool Heaters

KNIGHT[®] BOILER (KB) PRODUCT SUMMARY
80,000–500,000 Btu/hr

	KB-080	KB-105	KB-150	KB-210	KB-285	KB-399	KB-500
WATER							
GALLON CAPACITY	0.8	0.8	0.8	0.844	0.886	0.918	0.949
WATER CONNECTIONS	1"	1"	1"	1"	1-1/4"	1-1/2"	1-1/2"
DRAIN	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
MAX. WATER FLOW (GPM)	5.9	7.7	11	15.5	21	29.4	36.8
HEAD LOSS (FT. OF HD.)	15	17.5	12.8	19	11.5	14.1	15.5
MIN. WATER FLOW (GPM)	3.3	4.3	6.1	8.6	11.7	16.3	20.5
HEAD LOSS (FT. OF HD.)	5.7	6	7.1	7.1	5	5.5	6.3
MAX. WORKING PRESSURE (PSI)	80	80	80	80	80	80	80
RELIEF VALVE SIZE	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
RELIEF VALVE ASME RATING (MBH)	510	510	510	510	510	697	697
PRESSURE SETTING (PSI)	30	30	30	30	30	50	50
HEATING SURFACE (SQ. FT.)	6	10.6	10.6	15.3	19.9	23.5	26.9
GAS							
INLET CONNECTION	1/2"	1/2"	1/2"	1/2"	3/4"	1"	1"
MAX. INLET PRESSURE NAT	10.5" W.C.	10.5" W.C.	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.	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.	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.	8.0" W.C.	8.0" W.C.
BTU/HR INPUT	80,000	105,000	150,000	210,000	285,000	399,900	500,000
BTU/HR OUTPUT	73,000	95,000	136,000	191,000	259,000	360,000	451,000
ELECTRICAL							
VOLTAGE/HEATER	120	120	120	120	120	120	120
VOLTAGE/CONTROL	24	24	24	24	24	24	24
TOTAL AMPS	0.5	0.5	1	1.2	1.5	1.5	1.7
# OF ELECTRICAL CONNECTIONS	1	1	1	1	1	1	1
DIMENSIONS (INCHES)							
HEIGHT	33-1/4"	33-1/4"	33-1/4"	33-1/4"	42-1/2"	42-1/2"	42-1/2"
WIDTH	15-1/2"	15-1/2"	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"	27	31-1/4"
SERVICE CLEARANCES (INCHES)							
FRONT	24"	24"	24"	24"	24"	24"	24"
BACK	14"	14"	14"	14"	14"	14"	14"
RIGHT SIDE	0"	0"	0"	0"	0"	0"	0"
LEFT SIDE (PIPING)	24"	24"	24"	24"	24"	24"	24"
TOP	24"	24"	24"	24"	24"	24"	24"
VENTING							
SIZE (INCHES)	3"	3"	3"	3"	4"	4"	4"
VENT CATEGORY	IV	IV	IV	IV	IV	IV	IV
VENT MATERIAL	PVC	PVC	PVC	PVC	PVC	PVC	PVC

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