



KNIGHT XL[®] HEATING BOILER PRODUCT SUMMARY (KBX) 399,000 - 999,000 BTU/HR

	KBX-0400	KBX-0500	KBX-0650	KBX-0800	KBX-1000
WATER					
GALLON CAPACITY	4.4	4.9	6.2	7.3	8.8
HEATING SURFACE (SQ. FT.)	34.80	39.10	52.20	60.90	75.40
WATER CONNECTIONS	2"	2"	2"	2"	2-1/2"
20°F ΔT WATER FLOW (GPM)	38	48	62	76	96
HEAD LOSS (FT. OF HD.)	10.00	14.00	16.00	17.00	18.00
35°F ΔT WATER FLOW (GPM)	22	27	36	44	54
HEAD LOSS (FT. OF HD.)	4.00	8.00	7.00	9.00	6.00
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)	697	697	697	1352	1352
RELIEF VALVE PRESSURE RATING (PSI)	50	50	50	50	50
GAS					
INLET CONNECTION	1"	1"	1-1/4"	1-1/4"	1-1/4"
MAX. INLET PRESSURE, NAT	14.0" w.c.	14.0" w.c.	14.0" w.c.	14.0" w.c.	14.0" 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	14.0" w.c.	14.0" w.c.	14.0" w.c.	14.0" w.c.	14.0" 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	399,000	500,000	650,000	800,000	999,000
BTU/HR OUTPUT (HIGH FIRE)	387,030	485,000	630,500	776,000	969,030
BTU/HR OUTPUT (LOW FIRE)	38,703	48,500	63,050	77,600	96,903
ELECTRICAL (Boiler and Pump Only)					
VOLTAGE/HEATER	120	120	120	120	120
VOLTAGE/CONTROL	24	24	24	24	24
FLA	3.0	3.1	3.3	4.3	6.6
MCA	3.8	3.9	4.1	5.4	8.3
DIMENSIONS					
HEIGHT	45"	45"	45"	45"	45"
WIDTH	24"	24"	24"	24"	24"
DEPTH	33-1/2"	33-1/2"	42-1/2"	42-1/2"	50"
SERVICE CLEARANCES					
FRONT	24"	24"	24"	24"	24"
REAR	24"	24"	24"	24"	24"
RIGHT SIDE	0"	0"	0"	0"	0"
LEFT SIDE	0"	0"	0"	0"	0"
TOP	24"	24"	24"	24"	24"
DIRECT VENTING					
SIZE	4"	4"	6"	6"	6"
VENT CATEGORY	IV	IV	IV	IV	IV
VENT MATERIAL	PVC/CPVC/PP/ AL29-4C	PVC/CPVC/PP/ AL29-4C	PVC/CPVC/PP/ AL29-4C	PVC/CPVC/PP/ AL29-4C	PVC/CPVC/PP/ AL29-4C

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