



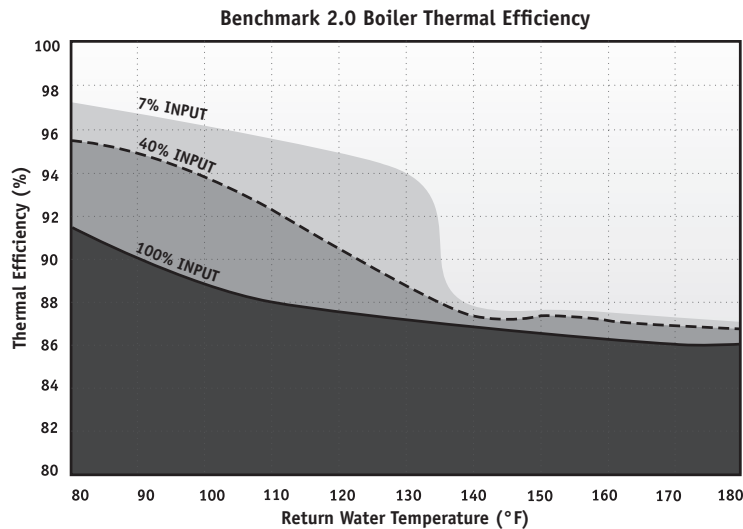
# MODEL BMK-2.0 GWB

## TECHNICAL DATA

## AERCO Benchmark (BMK) Gas Fired Hot Water Boiler System

The AERCO Benchmark Water Boiler is a true industry advance that meets the needs of today's energy and environmental concerns. Designed for application in any closed loop hydronic system, it relates energy input directly to fluctuating system load, yielding **seasonal efficiencies as high as 95%**. Its efficiency actually increases as the load decreases due to its unique inverse efficiency curve. The boiler can be used singly or in **modular arrangements for inherent standby with minimum space requirements**. Venting flexibility permits installation without normal restrictions.

The advanced electronics of each boiler module offer selectable modes of operation for temperature control (see reverse side). Regardless of the mode of operation, the load tracking capability of every unit delivers the ultimate in energy control through energy input modulation with a 20:1 ratio while meeting all load demands.



### BMK 2.0 Features

- Natural Gas
- 20:1 turndown Ratio
- Direct Vent or Conventional Capabilities
- Vent Material Required per UL 1738 (AL29-4C)
- ASME 160 PSIG Working Pressure Certified
- UL, CUL, ASME Coded
- (Optional) Dual Fuel – Natural Gas with Propane Back-up
- Quiet Operation throughout Firing Range
- Internal Low Water Cutoff (Manual Reset)
- Compact footprint (H 79", W 28", D 55")
- Precise Temperature Control +/- 2°F
- Sealed Combustion
- UL, CUL, for Alcove Installation on Combustible Flooring

### BMK-2.0 Specifications

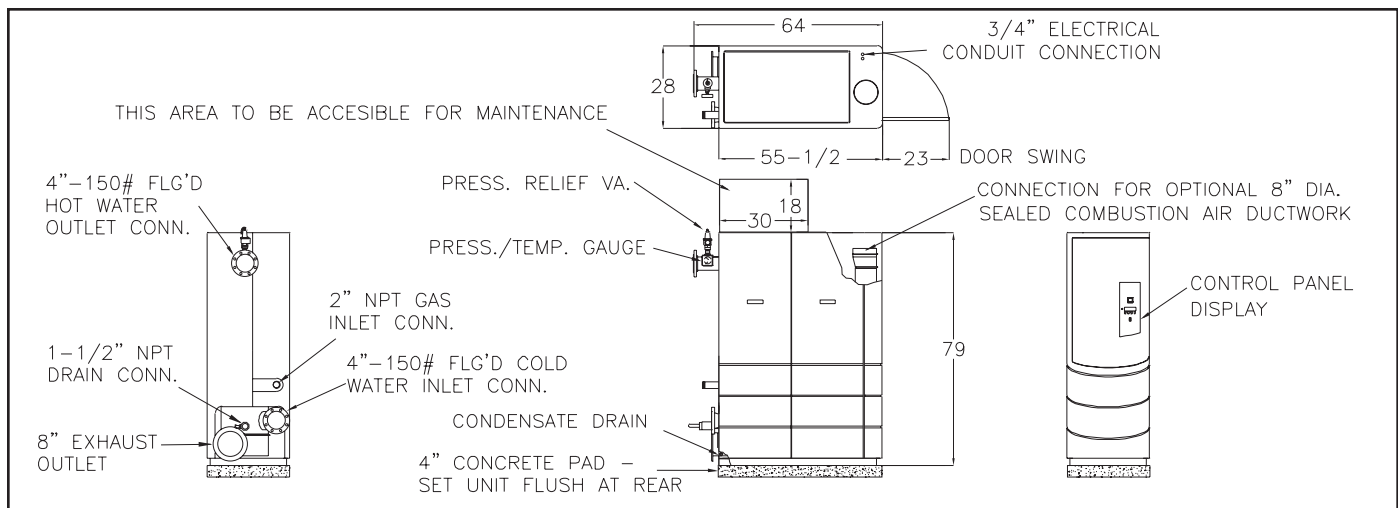
BTU Input .....2,000,000 BTU/Hr †  
Net Output @ full input ..... 1,720,000-1,840,000 BTU/H \*  
ASME Working Pressure ..... 160 PSIG  
Electrical Options..... 220/1/60 20 Amp (10 Amp FLA)  
208-230/3/60 15 Amp (6 Amp FLA), 460/3/60 15 Amp (3 Amp FLA)  
Gas Requirements..... 7.5 W.C. Minimum @ Full Load  
14" W.C. Maximum  
Vent Size .....8" Diameter  
Water Connections .....4" Flanged 150 lb. ANSI

Gas Connection..... 2" NPT  
Minimum Water Flow .....0 GPM\*\*  
Maximum Water Flow ..... 350 GPM  
Water Pressure Drop ..... 1.7 psig @ 170 GPM  
Water Volume ..... 27 Gallons  
Control Range ..... 50°F to 190°F  
Standard Listings & Approvals..... UL, CUL, CSD-1, ASME  
Gas Train Options.....FM Compliant or Factory Installed (IRI)  
Weight Installed (WET)..... 1,700 lbs.

\*Output is dependent upon return water temp. and firing rate. \*\*25 GPM water flow required for +/-2°F temperature control. Boiler operates safely with zero water flow. Up to 2000' altitude.



## Dimensions BMK-2.0 Boiler



## Ratings and Dimensions

Modules	Model (a)	Mbh Input (b)	Mbh Output (b) (c)	Width (1)	Depth	Height	Weight (wet)
One(1)	BM/2000	2,000mbh	1,720mbh-1,840mbh	2'3"	4'7"	6'5"	1,785lbs.
Two(2)	BM/2000-2	4,000mbh	3,440mbh-3,680mbh	6'7"	4'7"	6'5"	3,570lbs.
Three(3)	BM/2000-3	6,000mbh	5,160mbh-5,520mbh	11'0"	4'7"	6'5"	5,355lbs.
Four(4)	BM/2000-4	8,000mbh	6,880mbh-7,360mbh	15'3"	4'7"	6'5"	7,140lbs.
Five(5)	BM/2000-5	10,000mbh	8,600mbh-9,200mbh	19'7"	4'7"	6'5"	8,925lbs.
Six(6)	BM/2000-6	12,000mbh	10,320mbh-11,040mbh	24'0"	4'7"	6'5"	10,710lbs.
Seven(7)	BM/2000-7	14,000mbh	12,040mbh-12,880mbh	28'3"	4'7"	6'5"	12,495lbs.
Eight(8)	BM/2000-8	16,000mbh	13,760mbh-14,720mbh	32'7"	4'7"	6'5"	14,280lbs.

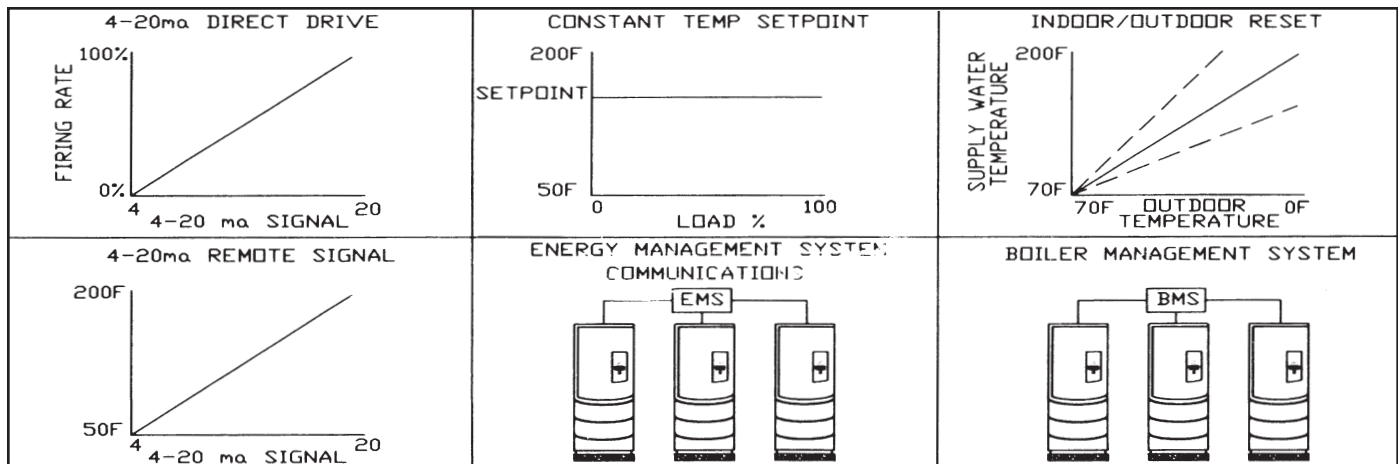
(1) Assume 24" between units. Does not reflect zero side wall clearance. Consult local sales representative.

(a) Style to be determined by individual application requirement.

(b) Altitude below 2,000'. Apply altitude correction factor above 2,000'.

(c) Output dependent upon application – see efficiency curves.

## Programmable Modes of Operation



Represented by:



HOT WATER SYSTEMS

Specifications subject to change.  
Consult website or contact AERCO.

BMK-2.0 6/07 5M  
New DOC 6/07

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