K2
BOILER SYSTEM

U.S. Boiler Company

K2
WATERTUBE

High Efficiency
Gas Fired, Stainless Steel,
Condensing Water Boiler

ENERGY STAR

US UNMATCHED ANYWHERE
VALUE-PRICED WITH PREMIUM FEATURES

- Up to 95% AFUE
- Reliable, proven stainless steel heat exchanger
- Factory pre-set Sage2.2™ Control System, providing out-of-the-box high performance
- Touch screen diagnostic display with plain-language guidance
- Exclusive features for installer convenience and homeowner dependability
- High altitude – zero or minimal de-ratings, reduces the costs of oversizing, field adjustable
- FREE 5-year parts warranty included

US UNMATCHED ANYWHERE
EXTRA BUILT-IN FEATURES

- High capacity pre-installed boiler loop circulator
- Split-voltage junction box
- Universal exhaust termination for polypropylene and PVC
- Outdoor reset and sensor

Burnham®
by
U.S. Boiler Company

MADE IN U.S.A.

K2 WATERTUBE

It's the condensing boiler that you've been asking for…

Contractors told us exactly what they wanted. A value-priced, high efficiency condensing boiler that is simple enough to install quickly AND offers valuable extras not found on com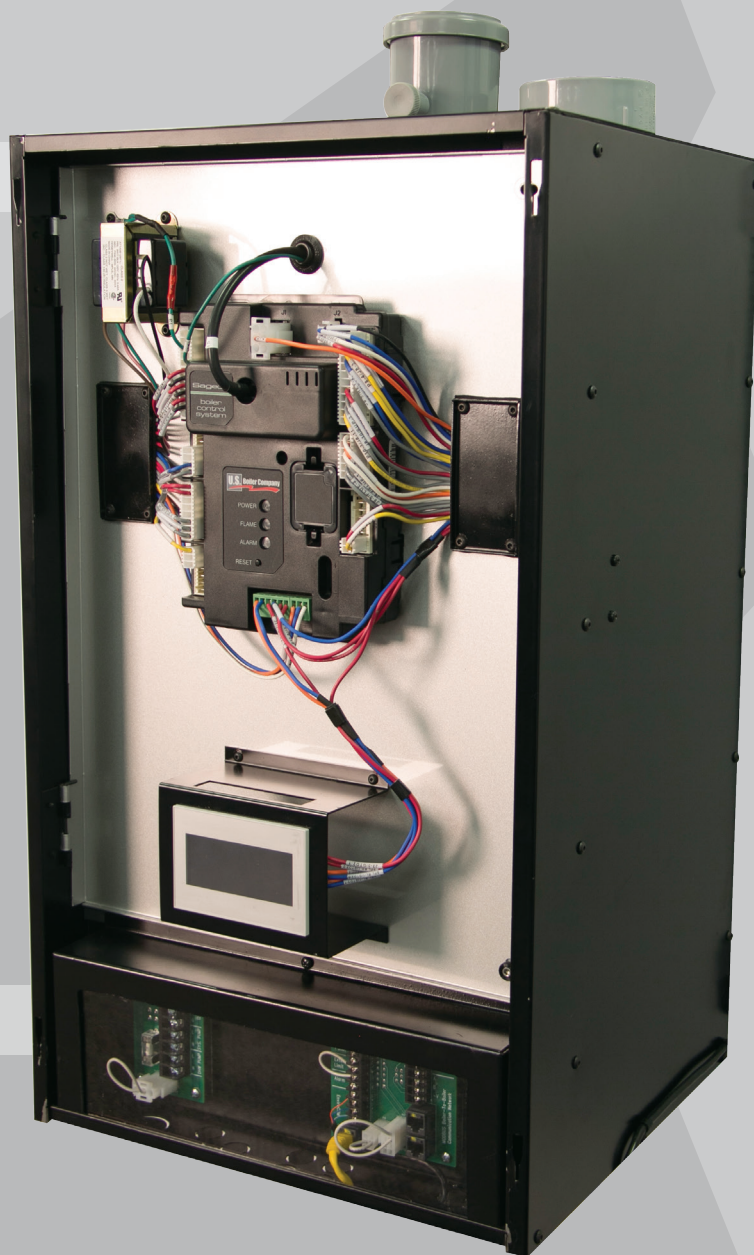petitive models. U.S. Boiler Company has delivered. The K2 Watertube offers a comprehensive feature list, unequalled ease of setup, maintenance, and operation in a package that costs far less than you'd expect for the impressive value that's built in. And best of all, it's built and tested with pride in Lancaster, Pennsylvania by U.S. Boiler Company.

SAVES TIME!

- Intelligent Sage 2.2 Boiler Control System
  - Factory pre-sets offer "out-of-the-box" performance
  - Touchscreen display with step-by-step setup guidance and diagnostics
- Designed for ease of installation & service
  - Hinged control door isolates electronics– Fast and easy access to combustion chamber
  - "Cold burner door" speeds service start
  - Integral, easy access junction box included with separate high voltage and fused, low voltage communication boards
  - Easy clean-out condensate trap
  - Side access panel
- Universal vent termination (polypropylene and PVC)
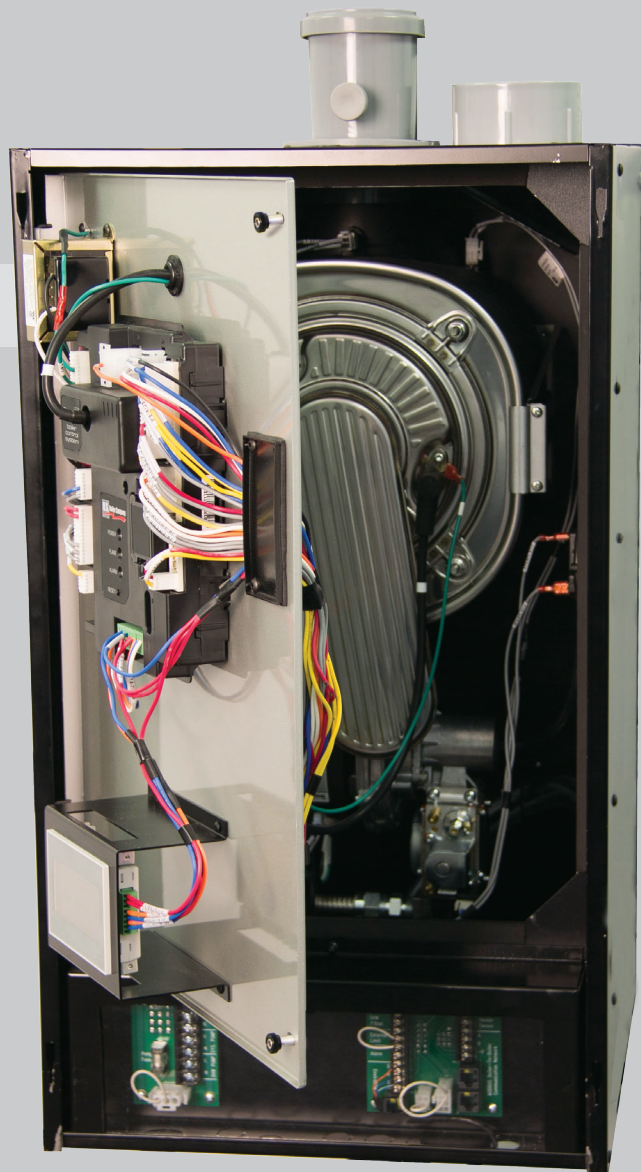
SAVES MONEY!

- Pre-installed premium boiler loop circulator eliminates pump selection and expense
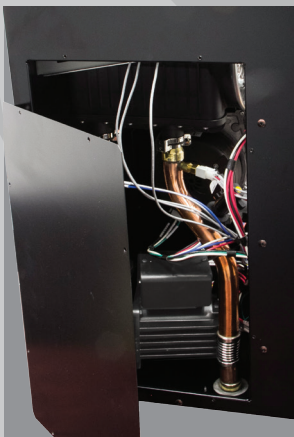
Display product shown. Interior of junction box is visible for illustration purposes only.
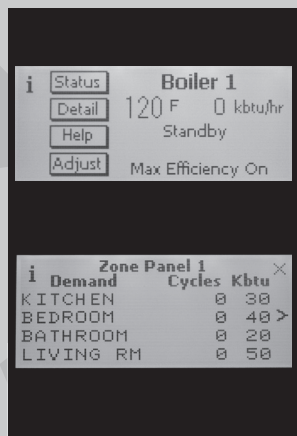
HOMEOWNER VALUE!

- Stainless steel heat exchanger offers long-term reliability
  - Field-proven performance
  - No welds, reducing potential corrosion points

- High efficiency, high performance, high comfort
  - Up to 95% AFUE
  - 5:1 turndown lowers fuel use
  - Very quiet operation - negative pressure design
  - "Cold burner door" design recovers heat for added energy savings

- Attractive, reinforced 16 and 22-gauge steel construction

- Advanced system testing carefully verifies the performance every K2 boiler before it leaves our factory
  - Worry-free installation; boiler display verifies reliable operation
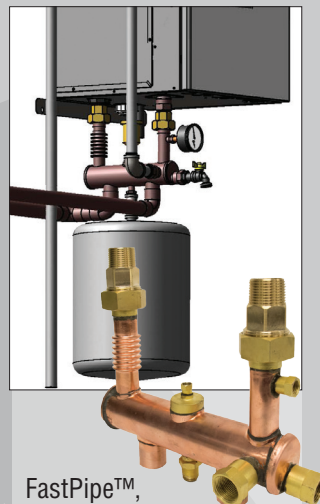
- FREE 5-year parts warranty included

Display product shown. Interior of junction box is visible for illustration purposes only.

Pre-installed high capacity pump optimizes water flow to ensure proper boiler operation. Side panel access.

Touchscreen display offers step-by-step assistance in setup and troubleshooting.

FastPipe™, optional ready-made primary/secondary piping solution saves installation time and cost.

K2 Instant Combi Kit, a fast and easy option, adds domestic hot water capability. Includes mixing valve and FastPipe.

K2WT: Technical Information

ASME H · ETL Intertek · AHRI CERTIFIED

Standard Equipment

- Direct vent, sealed combustion appliance
- Natural or LP gas
- Stainless steel heat exchanger
- Pre-installed boiler loop circulator
- Easy access control panel on hinged door
- Separated high and low voltage junction box
- Sage2.2 Control System
  - LCD touch screen display
  - Self-guided control menus
  - Built-in self diagnostics
  - (2) additional circulator outputs available
  - Built-in sequencer, stages up to (8) boilers
  - Outdoor reset including outside sensor
  - DHW priority
  - Warm weather shutdown
- Variable speed combustion blower
- Gas valve
- Polypropylene condensate trap
- Flow switch, pre-installed
- Supply, return, and auto reset high limit water sensors
- Universal exhaust vent termination
- Flue gas temperature sensor and differential pressure switch
- Pre-installed hanging bracket and wall mount kit
- Field adjustable for high altitude with minimal de-rate
- CPVC near boiler venting
- Exterior PVC elbow and coupling

K2WT Ratings & Specifications

Model	AFUE% (ENERGY STAR)	Input (MBH) min-max	DOE Heating Capacity (MBH)	Net AHRI (MBH)	DHW Rate* (GPM)	Vent Size (Inches)	Approx. Shipping Weight. (lbs.)
K2WT-080	94	16-80	74	64	N/A	2 or 3	149
K2WT-100	93	20-100	92	80	N/A	2 or 3	158
K2WT-120	94	24-120	111	97	N/A	3	162
K2WT-150	95	30-150	141	123	3.7	3	188
K2WT-180	94	36-180	167	145	4.4	3	188

*For optional combi-equpped models only, GPM @70° TR

Optional Equipment: K2 Boiler System

K2 BOILER SYSTEM

- DHW combi module P/N: 150, 180 MBH – (106341-01)
- FastPipe primary/secondary adapter PN: 80-120 MBH – (106259-01) 150, 180 MBH – (106259-02)
- Sage Zone Control (P/N: 104590-01)
- Wireless outdoor reset adapter (PN: 105121-01)
- LWCO kit (P/N: 105591-01)
- Service parts repair kit (P/N: 106260-02)

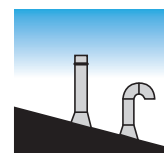*For more information on the K2 Boiler System please visit www.k2boiler.com*

Safety Relief Valve Pressure, Water – 30 PSI std. ASME certified "H". Maximum Allowable Working Pressure at 50 PSI, Max allowable temperature setting 210ºF. Target setpoint is 195°F, automatic reset high limit setpoint is 210°F. Boilers shipped set for natural gas. Above performance is for elevations to 2000'. Consult manual for instructions and performance for installations up to 10,000'.

Typical Venting Configurations (Horizontal and Vertical)

Illustrations are for representation only. For complete venting information, please see K2 Installation manual.
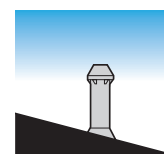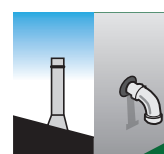

Horizontal 2-pipe

Vertical 2-pipe

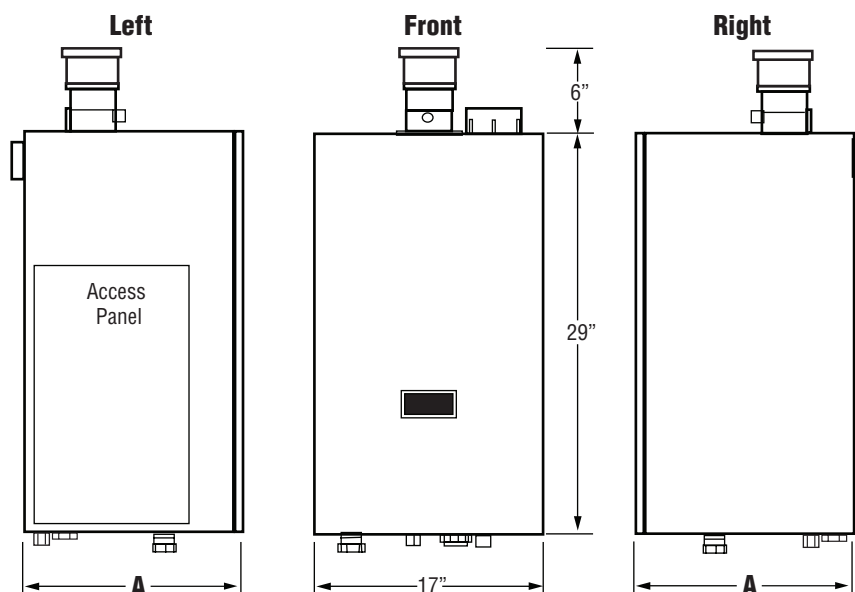Horizontal 2-pipe low profile

Vertical 2-pipe concentric

Horizontal 2-pipe concentric

Hybrid

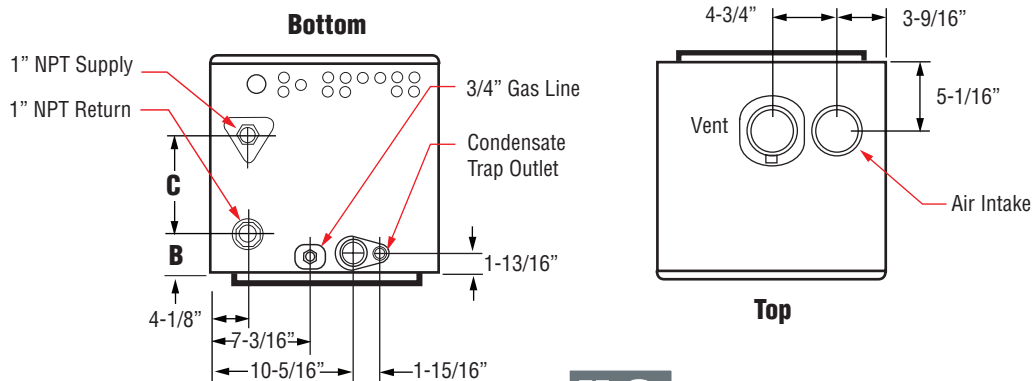Vertical exhaust/sealed B-vent for combustion air

Left / Front / Right

Access Panel

6" · 29" · 17" · A

NOTE: Optional combi kit extends 13" below boiler (150 MBH, 180 MBH), with all connections on left side

Bottom

1" NPT Supply
1" NPT Return
3/4" Gas Line
Condensate Trap Outlet
C · B · 1-13/16"
4-1/8" · 7-3/16" · 10-5/16" · 1-15/16"

Top

4-3/4" · 3-9/16"
Vent
5-1/16"
Air Intake

K2 Dimensions (Inches)

Model	A*	B	C
K2WT-080	16-3/16	2-31/32	7-13/32
K2WT-100	16-3/16	2-31/32	7-7/16
K2WT-120	16-3/16	2-31/32	7-7/16
K2WT-150	20-3/16	4-7/16	8-25/32
K2WT-180	20-3/16	4-7/16	8-25/32

*Open control door extends dimension additional 15"

www.usboiler.net

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