

P-K COMPACT®

DELIVERING UNMATCHED SAVINGS
YEAR AFTER YEAR



PATTERSON-KELLEY 



Proven Long Term Performance

The P-K COMPACT® is a semi-instantaneous indirect water heater built to last. This model reinforces our commitment to provide dependable, long-term, trouble free operation in thousands of installations in all types of commercial, institutional and industrial buildings. This small heater produces high hot water output at a closely controlled temperature, making it the ideal water heater for new or existing installations.

FEATURES

- ✓ High capacity output
- ✓ ANTICIPATOR® temperature control
- ✓ Copper-Nickel shell, naval brass tubesheet
- ✓ Copper-Nickel (standard), Copper, and Stainless Steel (single wall only) tube bundles available
- ✓ Complete package with only four piping connections
- ✓ Constant pump circulation improves temperature control and minimizes scale
- ✓ Electric, Pneumatic, and Self-Contained control valve options available
- ✓ *Optional* stand available to meet seismic Zone 4 requirements
- ✓ *Optional* pump trim available to incorporate building recirculation flow within COMPACT® circulation pump capacity
- ✓ *Optional* high pressure tube bundle and/or shell rating (up to 400psi)

ADVANTAGES

- ✓ Saves valuable floor space
- ✓ No overhead room required for service
- ✓ Meets hot water requirements in most buildings without the need for additional hot water storage
- ✓ Performs equally well with steam, boiler water or high-temperature hot water
- ✓ Improved valve performance and capacities, configurable to suit customer requirements

ANTICIPATOR® Control System Produces Close Temperature Control

The P-K COMPACT® water heater features the ANTICIPATOR® integral control system which meters the heating medium demand to exact proportions of hot water requirements and regulates hot water outlet temperature to a close tolerance of $\pm 4^{\circ}\text{F}$ from the set point. Steam passes through the tubes of the heat exchanger bundle. The water is rapidly heated as it is directed over the tubes by segmental baffles inside a cylindrical wrapper. Above the wrapped tube bundle, minimum storage volume is provided to give the controls sufficient time to produce the close temperature control.

P-K Simple

Designed with the customer in mind, we engineer features with true value.

Temperature Limit System

Protected by a double solenoid temperature limit system with a hot water dump valve. Optional alarms and/or dry contact relay is available for remote service.

No Overhead Clearance

The easiest of the semi-instantaneous water heaters to service on the market today. The shell always remains in place, so no overhead clearance is required for service.

Double Wall Design

Available with a vented double wall tube bundle with double tube sheets, offering ultimate protection against cross-contamination of potable water. Meets both health department and building codes.

A.S.M.E. Construction

Constructed in accordance with A.S.M.E. Code, Section VIII, Div. 1 and comes with an insurance company certificate of inspection and test.



High-Output Heater

Operating on steam, boiler water or high-temperature boiler water, the P-K COMPACT® produces up to 420GPM at 40°F to 140°F. At a maximum footprint of only 8 sq. ft., the heater can handle any building's water heating requirements, either separately or via multiple-unit installation.



Constructed For Long Service Life

The shell is constructed of solid 90-10 copper nickel, the premium corrosion-resistant material for potable water service, eliminating potable water contamination.



Prevents Scaling

Constantly pumped circulation prevents scale formation and accumulation of foreign matter on the heating surfaces in most water conditions (water softening may be required with extremely hard water).

P-K COMPACT® HORIZONTAL

DIMENSIONS IN INCHES

Model #	Width (W)	Height (H)	Depth (D)	Steam to Water		Water to Water		Weight (LBS)
				Single Wall Maximum BTU Output	Double Wall Maximum BTU Output	Single Wall Maximum BTU Output	Double Wall Maximum BTU Output	
PK06H	54	29	36	3,100,000	1,900,000	1,020,000	660,000	650
PK08H	54-1/4	28-1/2	38-1/2	6,500,000	3,900,000	1,970,000	1,230,000	760
PK10H	57-1/2	32-1/4	42-3/4	10,800,000	6,500,000	3,320,000	2,050,000	1040
PK12H	72-3/4	20-7/8	45-1/4	21,250,000	12,750,000	4,999,000	3,080,000	1300

Note: Width or Height may differ depending on the orientation of the relief valve

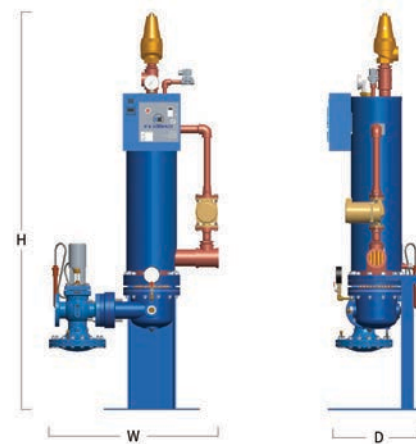
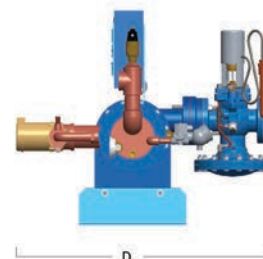
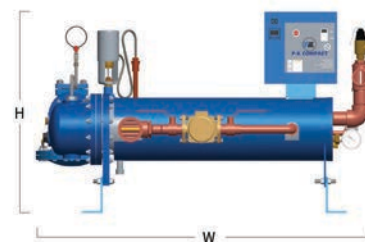
P-K COMPACT® VERTICAL

DIMENSIONS IN INCHES

Model #	Width (W)	Height (H)	Depth (D)	Steam to Water		Water to Water		Weight (LBS)
				Single Wall Maximum BTU Output	Double Wall Maximum BTU Output	Single Wall Maximum BTU Output	Double Wall Maximum BTU Output	
PK06	20	85	20	3,100,000	1,900,000	1,020,000	660,000	650
PK08	22-1/2	84	20	6,500,000	3,900,000	1,970,000	1,230,000	760
PK10	26-3/4	89	24	10,800,000	6,500,000	3,320,000	2,050,000	1040
PK12	29-1/4	101	34	21,250,000	12,750,000	4,999,000	3,080,000	1300

General Note for both Horizontal & Vertical Compacts:

Maximum Width of steam valve is 16" and this has been included in the referenced dimensions



10,000+
INSTALLATIONS

20
YEAR
GUARANTEE AGAINST
SHELL LEAKAGE

10
YEAR
GUARANTEE AGAINST
BUNDLE LEAKAGE

THE PATTERSON-KELLEY EXPERIENCE

Patterson-Kelley, a division of the Harsco Industrial Groups (HSC), is the leading provider and producer of commercial hot water heating solutions. With over 135 years of experience and an innovative R&D pipeline, we provide a full line of condensing and non-condensing boilers, semi-instantaneous water heaters, and an array of commercial boiler and water heating products including gas fired, dual fuel and outdoor boilers.

Because we are continuously evolving our products, descriptions and technical data are subject to change without notice. Contact your local Harsco Industrial Patterson-Kelley representative for the most up-to-date information and product application support.

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