

## DOMESTIC HOT WATER APPLICATIONS

PREFIX	MODEL #	CATEGORY	MAX BTU/HR INPUT	MIN BTU/HR INPUT	EFFECTIVE TURNDOWN	EFFICIENCY	RECOVERY 40-140F
<b>MFD</b>							
W	750-MFD	II or IV	750,000	150,000	5:1	85.8%	772.5
W	1000-MFD	II or IV	1,000,000	166,000	6:1	85.8%	1030
W	1500-MFD	II or IV	1,500,000	250,000	6:1	85.8%	1545
W	2000-MFD	II or IV	2,000,000	335,000	6:1	85.8%	2060
<b>THERMIFIC VELOX</b>							
W	750-VX	I	750,000	604,000	1.2:1	85.8%	772.5
W	1000-VX	I	1,000,000	610,000	1.6:1	85.8%	1030
W	1500-VX	I	1,500,000	1,005,000	1.5:1	85.8%	1545
W	1700-VX	I	1,700,000	1,050,000	1.6:1	85.8%	1750
W	2000-VX	I	2,000,000	1,100,000	1.8:1	85.8%	2060

## COMFORT HEAT APPLICATIONS

PREFIX	MODEL #	CATEGORY	MAX BTU/HR INPUT	MIN BTU/HR INPUT	EFFECTIVE TURNDOWN	EFFICIENCY	MAX BTU/HR OUTPUT
<b>MFD</b>							
N	750-MFD	II or IV	750,000	150,000	5:1	85%	637,500
N	1000-MFD	II or IV	1,000,000	166,000	6:1	85%	850,000
N	1500-MFD	II or IV	1,500,000	250,000	6:1	85%	1,275,000
N	2000-MFD	II or IV	2,000,000	335,000	6:1	85%	1,700,000
N	2500-MFD	II or IV	2,500,000	500,000	5:1	88%	2,200,000
N	3000-MFD	II or IV	3,000,000	500,000	6:1	88%	2,640,000
<b>THERMIFIC VELOX</b>							
N	750-VX	I	750,000	604,000	1.2:1	85%	637,500
N	1000-VX	I	1,000,000	610,000	1.6:1	85%	850,000
N	1500-VX	I	1,500,000	1,005,000	1.5:1	85%	1,275,000
N	1700-VX	I	1,700,000	1,050,000	1.6:1	85%	1,445,000
N	2000-VX	I	2,000,000	1,100,000	1.8:1	85%	1,700,000

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**HARSCO**  
INDUSTRIAL  
Patterson-Kelley



PROUDLY  
DESIGNED & ASSEMBLED  
IN THE U.S.A.

### Certifications

GE GAP (IRI) GAP.4.1.0  
AND GAP.4.1.3

FM Global 6-4/12-69



ASME Code Section IV  
Applies to Heating Boilers



ANSI Z21.13  
CSA 4.9  
Canada (Gas Appliances)  
U.S. (Gas Appliance)



U.S. Green Building Council  
Member



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VELOX001

# THERMIFIC VELOX™ & MFD® SERIES Non-Condensing Boilers



For Comfort Heat and Domestic Water Applications

Certified  
up to  
**88%**  
efficiency



**HARSCO**  
INDUSTRIAL  
Patterson-Kelley

## Smart decisions start with the perfect solution.

A copper-finned boiler sized right and more intelligent than ever.

When it comes to small size, but big output, the improved P-K **Thermific VELOX & MFD** are hard to beat — even the largest model can be moved through a 30" doorway!

Their state-of-the-art vertical design, utilizing a radial-fired, fan-assisted burner and heat exchanger, is the key to efficient performance. And, with the addition of the **NURO® Touch-Screen Controller** this updated platform has the efficiency and flexibility you demand.

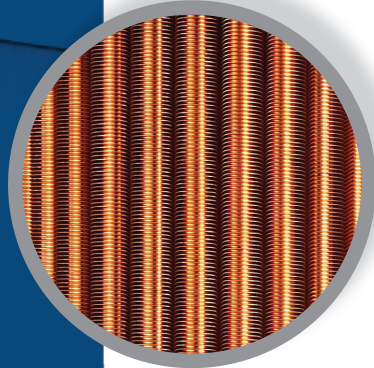
## ROI that fits.

Low operating, maintenance, and installation costs along with the highest achievable thermal efficiency level for non-condensing, gas-fired boiler make the **P-K Thermific® VELOX & MFD** a quick return on investment.

- ✓ LOW INSTALLATION COSTS
- ✓ LOW OPERATING COSTS/LOWER FUEL BILLS
- ✓ LOW MAINTENANCE
- ✓ IDEAL FOR RETROFITS IN INACCESSIBLE LOCATIONS
- ✓ 10 YEAR GUARANTEE
- ✓ FAST DELIVERY

### Great for retrofits!

Replace your failed (Category 1) equipment and realize a potential increase in efficiency without having to change your venting. Connects to existing category 1 chimney (vent system)

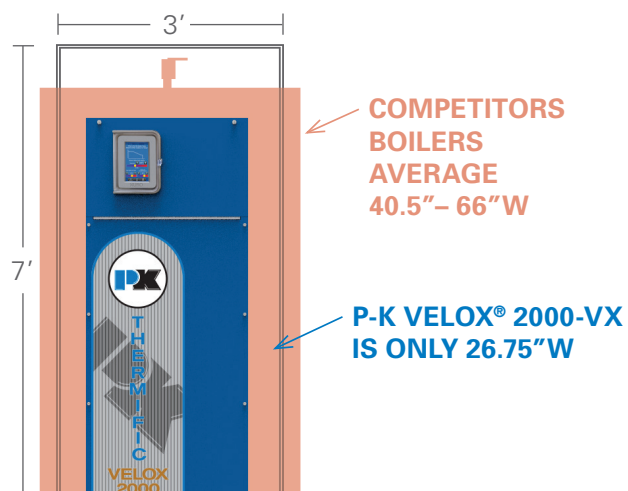


Certified up to **88%** efficiency

### COPPER FINNED TUBE HEAT EXCHANGER

Harsco Industrial Patterson-Kelley's quality finned tubes are machined from solid copper tube, NOT mechanically fastened, providing the longest life and highest performance in the industry.

### SMALLER FOOTPRINT



## Maximize efficiency with NURO® touch-screen control system.

Get long-term ROI with this simple to set-up, and easy-to-maintain boiler control system.

The NURO® touch-screen control system provides the most intuitive interface in the industry. Designed to maximize efficiency, NURO® monitors and modulates the combustion and ignition of the boiler to maintain the desired outlet temperature. The lead/lag setup and boiler start rotation ensures run times are equally distributed across each unit in the system, extending the life of the boilers.

**EASY TO USE:** Touch-screen interface provides simple step-by-step navigation for set-up, maintenance, custom configurations, efficiency, help and more.

**EASY TO SET-UP:** Whether installing a single boiler or cascading, with a simple touch, select from a variety of pre-configured settings for optimal system efficiency.

**EASY TO MAINTAIN:** Software upgrades provide long-term upgradability, which eliminates hardware replacement and costly service calls.

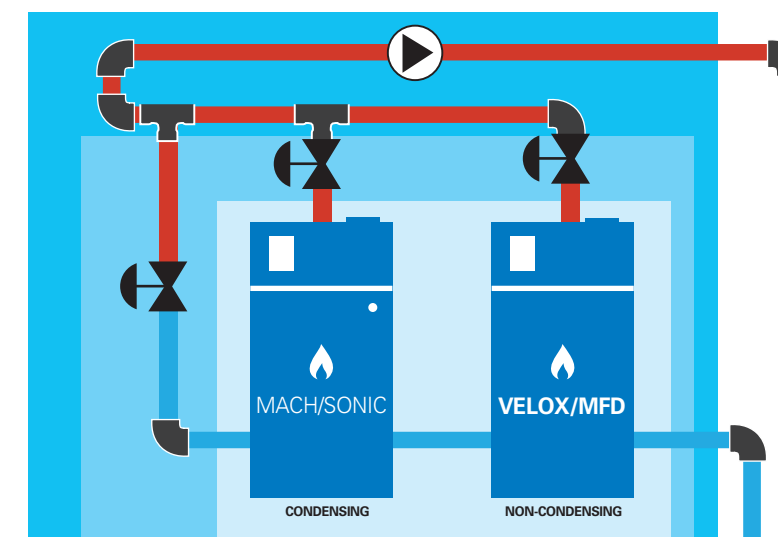
The NURO® control easily interfaces with building management systems (BMS) via the integrated MODBUS® RS-485 protocol or a 0-10 vdc analog control signal. BACnet, LONWORKS®, and METASYS® N2 are also available by adding a protocol converter for even greater application flexibility.

MODBUS® is a registered trademark of Schneider Automation Inc. LONWORKS® is a registered trademark of Echelon Corporation. METASYS® is a registered trademark of Johnson Controls, Inc.



## Hybrid designs provide efficiency and flexibility.

Take advantage of NURO® to improve performance and create a diverse system setup.



### LOCALIZED BMS

For those applications which require system control but are not wanting to add an additional layer of control complexity.

### VALVE CONTROL

The ability to control valves for primary only installations as well as for ASHRAE 90.1 requirements

### HYBRID SYSTEM

Utilize both condensing and non-condensing boilers for more effective system operation during design heating days as well as shoulder seasons.