



Patterson-Kelley

P-K MACH® 'n' Roll

Domestic Hot Water And Comfort Heat System



Designed to produce domestic hot water delivery with minimal to no scale build up, the P-K MACH® 'n' Roll is a combination high efficiency gas fired boiler and domestic hot water heater, providing long term value and reliability.

Hot water and building heat combined in a compact easy to maintain design.

The P-K MACH® 'n' Roll system takes advantage of unused space underneath the boiler to create a package that delivers high-value in a smaller footprint than conventional fabricated systems. Designed with service in mind, the indirect heat exchanger section is fully accessible from the front of the unit, making installation and service easy.

FEATURES

- ✓ 300 - 1050 MBTU
- ✓ Recovery Rates for Domestic Hot Water at 60°F ΔT --- 18 - 66 GPM
- ✓ Domestic water loop is isolated from the boiler loop
- ✓ Precise temperature regulation with no mixing valve required
- ✓ High quality stainless steel brazed plate heat exchanger
- ✓ Comes standard with the NURO® Touch Screen Control with NURO® Connect
- ✓ Optional tank skid package available for the MnR750 and MnR1050

ADVANTAGES

- ✓ Uses lower approach temperatures to produce domestic hot water, which inhibits scale formation and increases efficiency
- ✓ Produces domestic water up to 140°F and still operates the boiler in the condensing mode, where peak efficiency performance can be achieved
- ✓ Ideal for retrofitting old buildings or new construction

MACH® 'n' Roll Pool Heater

Also available in a pool heater version, the MACH® 'n' Roll Pool Heater uniquely features:

- *Single wall or double wall heat exchanger*
- *CPVC piping in lieu of copper piping*
- *No domestic hot water pump*
- *Not suitable for salt pools*



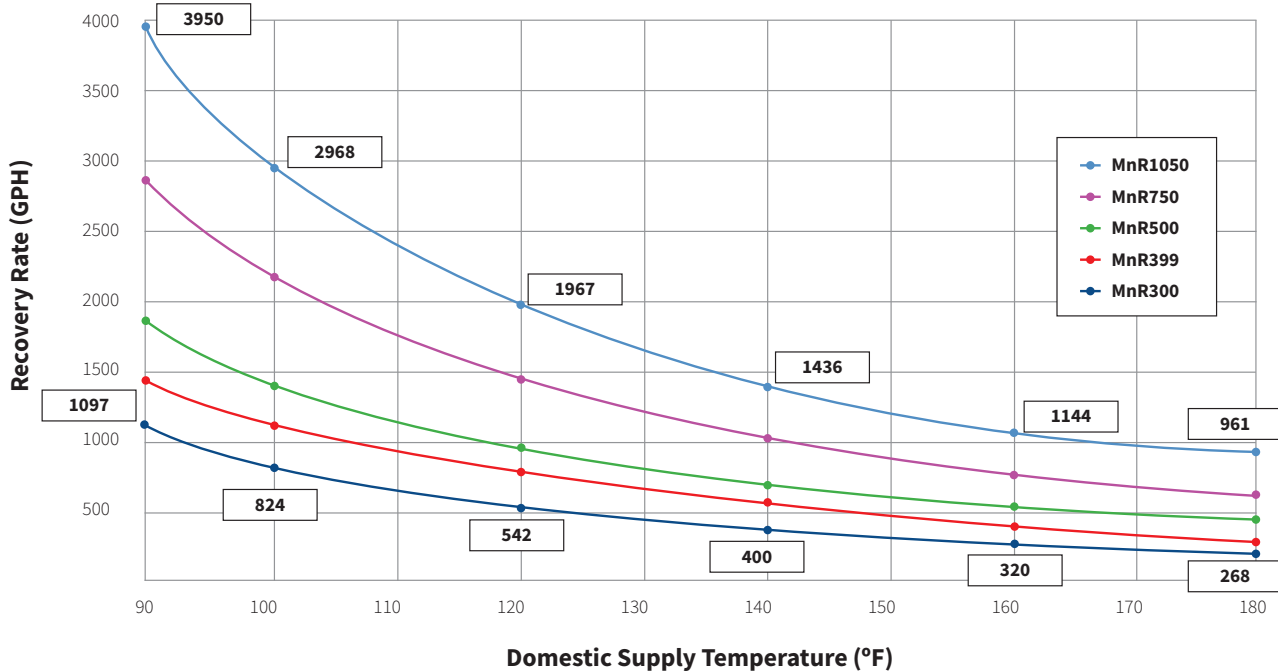
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MACH® 'n' Roll Recovery Rates from 60°F



Boiler Ratings and Capacities	MnR300	MnR399	MnR500	MnR750	MnR1050
Efficiency	93.5%	93.0%	92.0%	95.0%	94.0%
Electrical Requirements	120V/1ph/60Hz	120V/1ph/60Hz	120V/1ph/60Hz	120V/1ph/60Hz	120V/1ph/60Hz
Fuel	NG, LP	NG, LP	NG, LP	NG, LP	NG, LP
Maximum Inlet Gas Pressure	14" w.c.	14" w.c.	14" w.c.	14" w.c.	14" w.c.
Minimum Inlet Gas Pressure	NG: 3.5" w.c.	NG: 3.5" w.c.	NG: 3.5" w.c.	NG: 3.5" w.c.	NG: 3.5" w.c.
	LP: 7.0" w.c.	LP: 7.0" w.c.	LP: 7.0" w.c.	LP: 7.0" w.c.	LP: 7.0" w.c.
Input, BTU/hr	300,000	399,000	500,000	750,000	1,050,000 (NG) 1,000,000 (LP)
Output, BTU/hr	280,500	371,070	460,000	712,500	987,000 (NG) 940,000 (LP)
Turndown	5:1	5:1	5:1	5:1	5:1
Dimensions (Depth x Width x Height)	22"x36.5"x77"	22"x36.5"x77"	22"x36.5"x77"	57.25"x28"x67"	57.25"x28"x67"
Operating Weight	450 lbs.	453 lbs.	453 lbs.	1125 lbs.	1225 lbs.
A.S.M.E. Section IV Design Data Boiler					
Maximum Pressure	80 psig	80 psig	80 psig	80 psig	80 psig
Maximum Temperature	250°F	250°F	250°F	250°F	250°F
Maximum Operating Temperature	194°F	194°F	194°F	194°F	194°F
Flow Rate @ 20°F	28 GPM	37 GPM	46 GPM	72 GPM	99 GPM
Flow Rate @ 40°F	14 GPM	18 GPM	23 GPM	36 GPM	49 GPM
DHW Heat Exchanger (Double Wall Brazed Plate - A.S.M.E. Section VIII - Div 1)					
Maximum Pressure	150 psig	150 psig	150 psig	150 psig	150 psig
Maximum Temperature	225°F	225°F	225°F	225°F	225°F
Recovery Rate @ 40°F to 140°F	320 GPH	425 GPH	533 GPH	820 GPH	1148 GPH
Recovery Rate @ 60°F to 120°F	542 GPH	721 GPH	903 GPH	1405 GPH	1967 GPH

*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.*