

# P-K MACH 'n' Roll™ Model MnR750 - MnR 1050 with Tank

Natural Gas or Propane Gas - 120V - NURO™ Control

Components		
<b>Boiler Components</b>		
A	Combustion Air Inlet	6" dia. stub
C	Condensate Drain	3/4" hose
E	Exhaust Vent [MnR750] Exhaust Vent [MnR1050]	6" 8"
J	Wiring Junction Boxes	inside cabinet
P	Pressure Relief Valve	3/4" X 1" 150PSI Sec. VIII
BP	Boiler Water Pump	2/5HP Fixed Speed Pump
<b>Domestic Hot Water Components</b>		
DR	Domestic Hot Water Return, Victaulic clamp	2" copper pipe, grooved
DS	Domestic Hot Water Supply, Male NPT	120 Gal - 2" Male NPT 200 Gal - 2 1/2" Male NPT
DP	Domestic Hot Water Flow Device	2/5 HP BRZ Fixed Speed
<b>Single Fuel Boiler</b>		
G	Gas Connection	1" NPT-F

Boiler Controls	
ASME CSD-1 is standard	
Complies with: GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3 FM Global 6-4 Section 1.0	
<b>Components:</b>	
Main Gas Train with Dual Shut-off	
Integrated Boiler Control, NURO™ Series	
Operating Thermostat, 70° - 195°F (21° - 91°C)	
High Limit Thermostat, Manual Reset, 100° - 197°F (38° - 93°C)	
High Exhaust Back Pressure Switch	
LWCO, Probe Type, Manual Reset	
Combustion Air Proving Switch, Differential Pressure Type	
Combustion Blower, Variable Speed, 300 Watt	

Venting	
This MACH Boiler requires Category IV venting (condensing-positive pressure) or Category II venting** (condensing-negative pressure) as defined in ANSUI Z223.1/NFPA 54/CSA-B.149 Latest Edition	
** Category II venting must include optional combustion air damper	

Electrical Requirements	
Power Supply	120V, 1ph, 60Hz
Boiler Operating Current [MnR750-1050]	Less than 6 Amps
DHW Electrical Requirements [MnR750-1050]	9.6 Amps
Recommended Min Circuit Capacity [MnR750-1050]	20 Amps

Pressure Relief Valve/Press-Temp Gauge		
30 PSIG (Boiler) 1" X 1"	Section IV	0-100psi/30-240 ° F
150 PSI (DHW) 3/4" X 1 1/4"	Section VIII	
125 PSI (Tank) 1" X 1"	Section IV	

Ratings and Capacities			
Fuel	<input type="checkbox"/> Natural Gas (NG) Min 3.5" w.c. <input type="checkbox"/> Propane Gas (LP) Min 7.0" w.c.		Tank Information
	<input type="checkbox"/> MnR750	<input type="checkbox"/> MnR1050	<input type="checkbox"/> 120 Gallon <input type="checkbox"/> 200 Gallon
Max Inlet Gas Pressure	14" w.c.	14" w.c.	ASME Section IV HLW  Design Pressure : 150PSI  Exterior: Coated Enamel Steel Jacket  Interior: Ultonium Glass Lining  Insulation: 2" R-12.5 Open Cell Foam  Jacket: 24 Gauge Steel
Input, BTU/hr	750,000	1,050,000	
Input, BTU/hr	712,500	987,000	
Boiler HP	21.3	29.5	
Operating Weight			
<input type="checkbox"/> 120 Gallon Tank	2552 lbs.	3032 lbs.	
<input type="checkbox"/> 200 Gallon Tank	3295 lbs.	3721 lbs.	
Boiler Water Content	10.63 gallons	12.03 gallons	
Shipping Dimensions	36"x100"x90"		
Shipping Weight			
<input type="checkbox"/> 120 Gallon Tank	1306 lbs.	1561 lbs.	
<input type="checkbox"/> 200 Gallon Tank	2066 lbs.	2304 lbs.	

A.S.M.E. Section IV Design Data		
Maximum Pressure	80 psig	
Maximum Temperature	200 °F	
Maximum Operating Temperature	194°F	
	<input type="checkbox"/> MnR750	<input type="checkbox"/> MnR1050
Heated Wet Surface Area	18.35 sq. ft.	25.69 sq. ft.
Flow Rate @ 20°F	72 GPM	100 GPM
Flow Rate @ 40°F	36 GPM	50 GPM
DHW Heat Exchanger		
Double Wall Brazed Plate - ASME Section VIII - Div 1 316 Stainless Steel Plates w/ Copper Brazing		
	MnR750 & MnR1050	
DHW Heat Transfer Surface Area	92.8 sq. ft.	
Maximum Pressure	150psig	

Recovery Performance Data		
	<input type="checkbox"/> MnR750	<input type="checkbox"/> MnR1050
40 °F to 140 °F	820 GPH	1148 GPH
60 °F to 120 °F	1405 GPH	1967 GPH

Recommended Clearance for Service Access*					
MnR750 & MnR1050	Front	Rear	Top	Right Side	Left Side
	30"	0" **	24"	24"	24"

\* Refer to installation and Owner's Manual for complete clearance dimension details  
 \*\* Rear refers to the clearance behind tank.

Notes:

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