



Advanced Heating
& Hot Water Systems

MOD CON

Double Stack

10 : 1

Turndown Ratio

BTU Modulation Rates

100,000 - 1,000,000

170,000 - 1,700,005

Built in Redundancy
(No Downtime)

Small Footprint

Prepiped Reverse Return

ASME Stainless Steel Heat Exchanger

Gas Fired Commercial Boiler

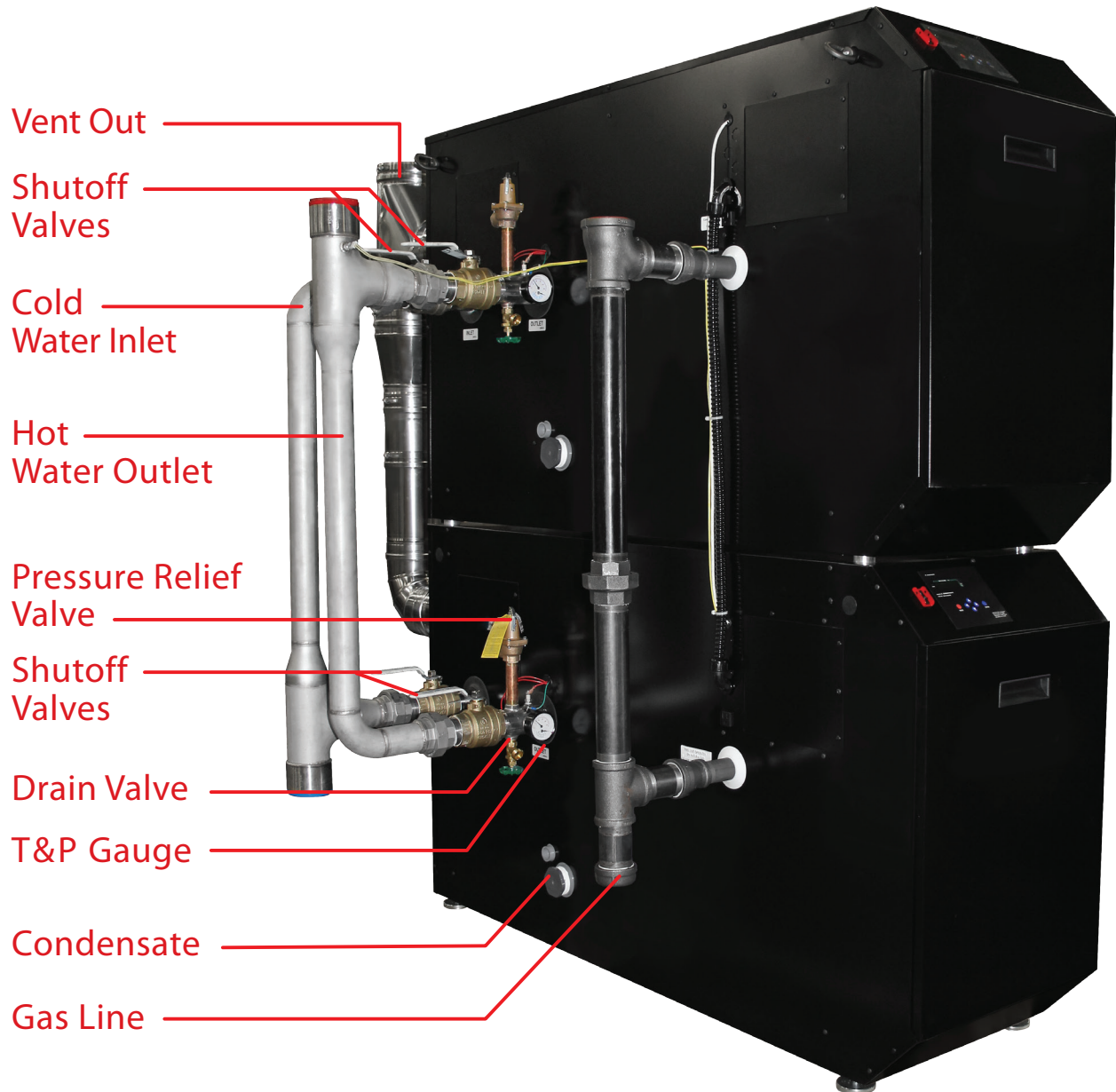
Also Available: Volume Water Heater Model

Shutoff Valves Preinstalled on
Both the Top and Bottom Units



An Intelligent Design that Delivers Highly Efficient Hydronic Heating with up to 94.1% Efficiency

MOD CON DOUBLE STACK • A Closer Look



MOD CON DS • Optional Equipment

- Remote System Sensor (7250P-324)
- Indirect Tank Sensor (7250P-325)
- 6" Stainless Steel Vent Termination Kit (V3000)
- High and Low Gas Pressure Switch Kit with Manual Reset (7350P-600 - Two [2] are Required)
- UL 353 Compliant Low Water Cut-Off Interface Kit with Manual Reset (7350P-601 - Two [2] are Required)
- Alarm System (to monitor any failure) (7350P-602 - Top Boiler Only)
- PC Connection Kit (7250P-320)
- Condensate Neutralizer (7350P-611)
- Caster Kit (7350p-227)
- Flow Switch Kit (7350P-605 - Two [2] are Required)
- Stainless to PVC Vent Adapter (6" - 7350P-275, 8" - 7350P-375)
- Intake and Exhaust Screens (6" - SSV6.6, 8" - SSV8.6)

MOD CON DS • Additional Features

- Superior Condensate Collection System (Patent Pending) Easy to Service With Overflow Protection
- PVC – CPVC – Stainless Steel Venting
- Vents Up to 150 feet, Combined
- Adjustable Legs
- Direct Vent Sealed Combustion
- Models Available in Natural or LP Gas
- Easy Access to Wiring and Field Service of Combustion Heat Exchanger
- Low Water Cutoff Standard Equipment
- High Limit Manual Reset
- Removable Front Cover Allows Easy Access to Burner Assembly
- Zero Clearance to All Combustible Surfaces
- Factory Installed AGA/ASME Rated Relief Valve
- PC Monitoring for History – System Operation (Optional)
- Self Diagnostic Electronic Control with Digital Readout to Monitor System Parameters

MOD CON DOUBLE STACK • Features

Integrated Control System

- **Built-In Sequencer for up to 4 Mod Con Double Stacked Boilers**
-Top & Bottom Boilers are Sequenced
- Digital Display - Total System Control
- Integrated Control Allows Only the Amount of Heated Energy Required
- Control Feature Inputs for Outdoor Sensor, 0-10 VDC for Building Management System and Indirect Sensor
- Built-in Low Water Cut Off with Additional Manual Reset High Limit Switch
- Multiple Pump Outputs – Boiler Pump – System Pump – Indirect Pump
- 24 Volt Monitor for System Safety
- Dual Flame Sensing (Flame Probe & Spark Ignition Probe)

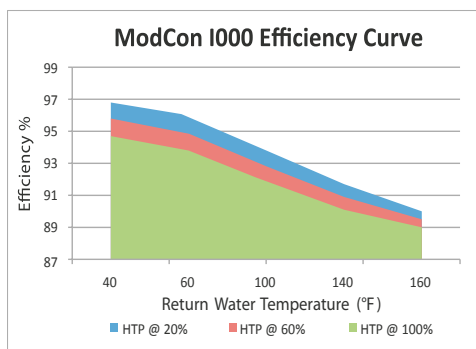
Combustion System

- **Modulating Burner with a True 10 to 1 Turndown**
- Whisper Quiet Operation
- Low NOx Operation
- High Grade Inconel Burner
- Reliable Spark Ignition
- **Combined Vent System**
- Gas Valve (Tested to UL, FM, CSA Standards)

Heat Exchanger

- **All Stainless Steel Construction**
- No Gaskets, Welded Construction, ASME Approved
- 150 PSI Relief Rated
- Easy to Service

Highly Efficient Condensing Technology, means lower energy cost to you!



Multifunction Control Panel & Easy to Use Digital Display



Single Point Connection:
Piping and Venting

Prepiped Reverse Return

Quick Disconnect Design

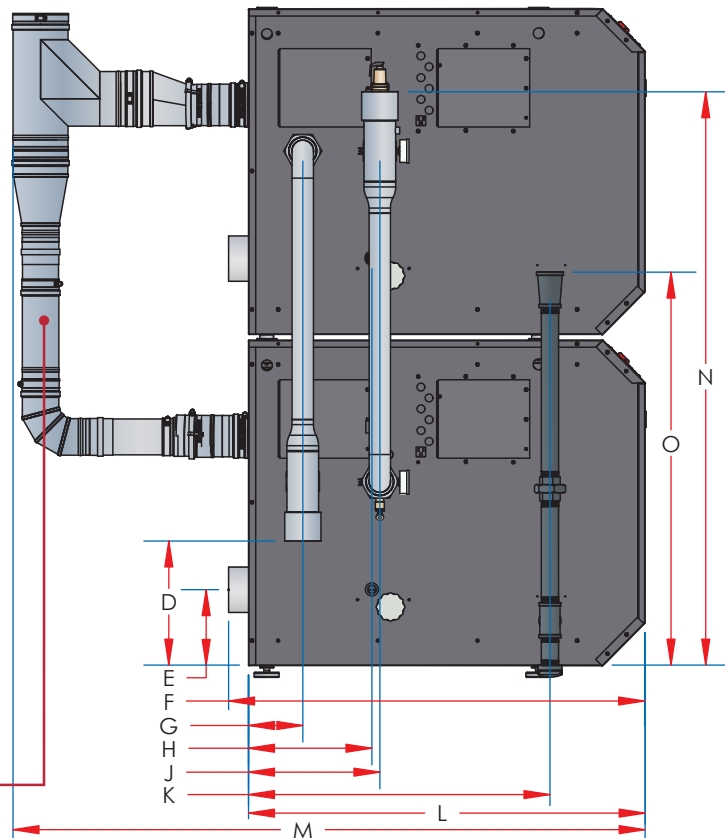
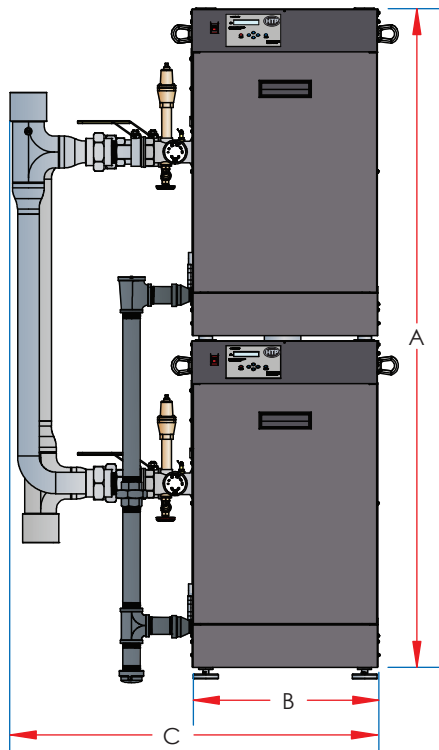
Double Heat Exchanger
Design Offers Built-in
Fail Safe (No Downtime)

Primary/Secondary
or Primary Direct Piping

Up to 94.1% Thermal
Efficiency



	A	B	C	D	E	F	G	H	J	K	L	M	N	O
Mod Con Double Stack 1000	72.5"	20.5"	42"	13.75"	8.375"	46"	6"	13.63"	14.5"	33.25"	43.75"	66.75"	63.25"	43.375"
Mod Con Double Stack 1700	72.5"	20.5"	42"	13.75"	8.375"	64.5"	8.25"	20"	18.75"	43.5"	62.375"	88.5"	63.25"	59"



Combined Vent System

Please note: all dimensions are approximate and heights do not include adjustable legs.

ULTRA
Low NOx
Emissions
SCAQMD Rule 1146.2



Heat Exchanger
Bears the ASME
"H" Stamp



Model		1000	1700
Installation		Indoor, Floor Standing, Modulating, Fully Condensing	
Minimum / Maximum Input (Btu/Hr)		100,000 / 1,000,000	170,000 / 1,700,005
Thermal Efficiency		94.1%	94.1%
Heating Capacity (MBH)		940	1600
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent	
Minimum Combined Vent Run		16 feet	
Maximum Combined Vent Run		6" (150 feet)	8" (150 feet)
Approved Exhaust Vent Materials		Schedule 40 PVC, CPVC, PP, Stainless Steel	
Shipping Weight (lbs)		1010	1160
Gas Supply Pressure	NG	3.5" to 14" WC	
	LP		
Manifold Pressure		Min / Max	
		NG/LP: -0.01" WC	
Power Supply		120V 60 Hz, 6.3A	
General Operating Conditions		Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9	
Ignition System		Direct Electronic Spark Ignition / Flame Rectification	
Burner System		Premixed Fuel Modulation / Stainless Steel Metal Fiber Burner	
Gas Valve System		Air Ratio Valve	
Dimensions (in Inches)	W	42	
	H	72.5	
	D	66.75	88.5
Boiler Water Content (Gallons)		8.4	11.6
Minimum Flow Rate @ 30°F ΔT (GPM)		66	109
DHW Setpoint Temperature Range		70 – 185°F	
Water Pressure (PSI)	Heat Exchanger MAWP	160	
	Pressure Relief Valve	75	
Control Panel / Main Controller		LCD Display with LED Indicators / 926 Digital Control	
Connection Sizes	Supply / Return	3" NPT	
	Gas Inlet	2" NPTF	2 1/2" NPTF
Materials	Cabinet	Powder Coated Galvaneal Steel	
	Heat Exchanger	316L Stainless Steel Water Tube	
Safety Devices		Flame Rectifier Probe, Water Temperature High Limit Switch (190°F), Freeze Protection, Condensate Trap with Overflow Switch, Included LWCO (Optional UL 353 LWCO), Blocked Vent Pressure Switch, Optional Gas High/Low Pressure Switch	