

A TRUE

10:1

Turndown Ratio

Btuh Modulation Rates

100,000 -1,000,000 170,000 -1,700,005

Built in Redundancy
(No Downtime)
Small Footprint
Prepiped Reverse Return

Stainless Steel Heat Exchanger
Gas Fired Commercial
Volume Water Heater

An Intelligent Design that Delivers Highly Efficient Water Heating with up to 98% Thermal Efficiency

Shutoff Valves Preinstalled on Both the Top & Bottom Units







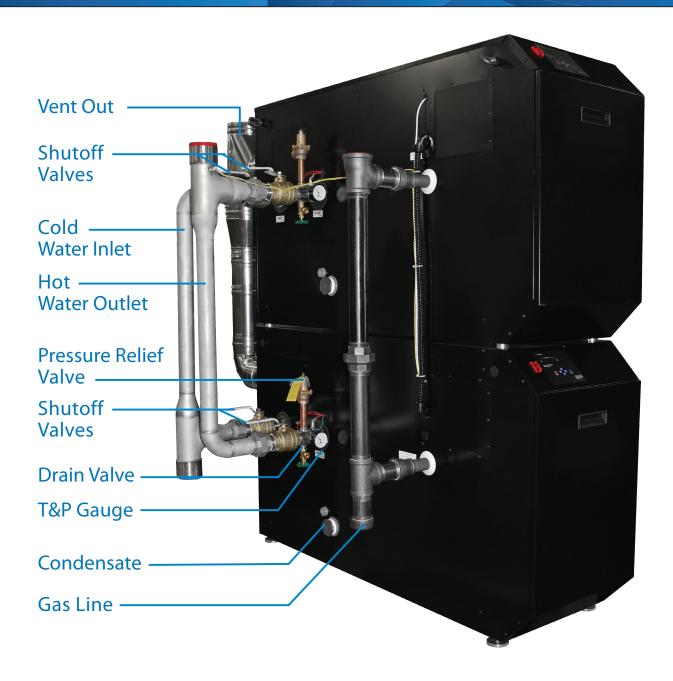








MOD CON DOUBLE STACK VWH • A Closer Look



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

- Flow Switch (Standard)
- 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 DS • Optional Equipment

- System Sensor (Part # 7250P-324)
- Indirect Sensor (Part # 7250P-325)
- 6" Stainless Steel Outside Termination Vent Kit (V3000)
- High and Low Gas Pressure Switch Kit with Manual Reset (Part # 7350P-600)
- U.L. 353 Compliant Low Water Cut-Off Interface Kit with Manual Reset (Part # 7350P-601)
- Alarm System (Part # 7350P-602) (to monitor any failure)
- PC Interface Cable (Part # 7250P-320)
- Boiler Caster Kit (Part # 7350P-604)
- Mod Con Condensate Neutralizer (Part # 7350P-611)

MOD CON DOUBLE STACK VWH • Features

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)

Commercial

Up to 1,700,005 Btuh

Perfect for high demand applications including apartment buildings, restaurants, hotels, schools, hospitals, laundry facilities, office buildings and other commercial jobs.



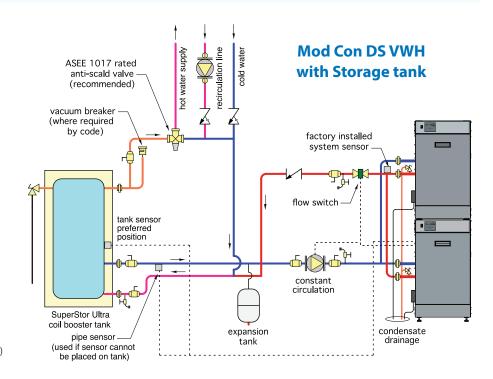
Heat Exchanger

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

Integrated Control System

- Built-In Sequencer for up to 4
 Mod Con Double Stacked VWH Units

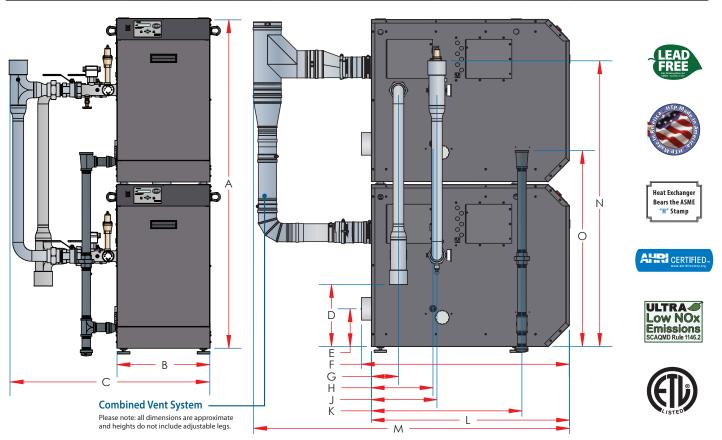
 Top & Bottom Boilers are Sequenced
- Integrated Control Allows Only the Amount of Heated Energy Required
- Control Feature Inputs for Outdoor Sensor, 0-10 VDC for Building Management System and Indirect Sensor
- Manual Reset High Limit Switch (supplied)
- Flow Switch Monitoring Ensures the Unit has Adequate Flow Before Firing the Burner
- Multiple Pump Outputs: Boiler Pump, System Pump, Indirect Pump
- · 24 Volt Monitor for System Safety
- Dual Flame Sensing (Flame & Spark Ignition Probes)
- Master / Follower Control System



MOD CON DOUBLE STACK VWH WITH STORAGE TANKS RATINGS

		100	00VWH		1700VWH					
ΔT (Delta T) (°F)	Gallons Per Hour	First Hour Rating w/ 200 Gallon Tank	First Hour Rating w/ 300 Gallon Tank	First Hour Rating w/ 500 Gallon Tank	Gallons Per Hour	First Hour Rating w/ 350 Gallon Tank	First Hour Rating w/ 500 Gallon Tank	First Hour Rating w/ 750 Gallon Tank		
	Contact HTP for Available Storage Tanks					Contact HTP for Available Storage Tanks				
40°	2918	3068	3143	3293	5012	5275	5387	5575		
50°	2335	2485	2560	2710	4010	4272	4385	4572		
60°	1945	2095	2170	2320	3341	3604	3716	3904		
70°	1668	1818	1893	2043	2864	3127	3239	3427		
80°	1459	1609	1684	1834	2506	2769	2881	3069		
90°	1297	1447	1522	1672	2228	2490	2603	2790		
100°	1167	1317	1392	1542	2005	2267	2380	2567		
110°	1061	1211	1286	1436	1823	2085	2198	2385		
120°	973	1123	1198	1348	1671	1933	2046	2233		
130°	898	1048	1123	1273	1542	1805	1917	2105		
140°	834	984	1059	1209	1432	1695	1807	1995		

	А	В	С	D	Е	F	G	Н	J	K	L	М	N	0
Mod Con DS VWH1000	72.5"	20.5"	45.5"	13.75"	8.375"	46"	6"	13.63"	14.5"	33.25"	43.75"	66.75"	63.25"	43.375"
Mod Con DS VWH 1700	72.5"	20.5"	45.5"	13.75"	8.375"	64.5"	8.25"	20"	18.75"	43.5"	62.375"	88.5"	63.25"	59"



	Model	1000	1700				
	Installation	Indoor, Floor Standing, Modulating, Fully Condensing					
Minimum / I	Maximum Input (Btu/Hr)	100,000 / 1,000,000	170,000 / 1,700,005				
The	ermal Efficiency	97%	98%				
Heati	ng Capacity (MBH)	970	1666				
	Flue System	Category IV, Sealed Combustion Direct Vent, Power Vent					
Minimun	n Combined Vent Run	16 feet					
Maximur	n Combined Vent Run	6" (150 feet)	et) 8" (150 feet)				
Approved	Exhaust Vent Materials	Schedule 40 PVC, CPVC, PP, Stainless Steel					
Ship	ping Weight (lbs)	1010	1160				
Gas Supply Pres- NG		3.5" to 14"WC					
sure	LP	3.3 (0 14 WC				
Manifold Pressure	Min / Max	NG/LP: -0.01"WC					
F	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					
Ig	nition System	Direct Electronic Spark Ignition / Flame Rectification					
В	Burner System	Premixed Fuel Modulation / Stainless Steel Metal Fiber Burner					
Ga	s Valve System	Air Ratio Valve					
5 : .	w	45.5					
Dimensions (in Inches)	Н	72.5					
	D	66.75	88.5				
Boiler Water Content (Gallons)		8.4	11.6				
Minimum Flo	ow Rate @ 30°F ΔT (GPM)	66	109				
DHW Setpo	oint Temperature Range	95 – 180°F					
Water Pressure (P	Heat Exchanger MAWP	160					
water ressure (r	Pressure Relief Valve	150					
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 Coate	ed Galvaneal Steel				
Materials	Heat Exchanger	316L Stainless Steel Water Tube					
s	afety Devices	Flame Rectifier Probe, Water Temperature High Limit Switch (Included LWCO (Optional UL 353 LWCO), Blocked Vent Pressu	190°F), Freeze Protection, Condensate Trap with Overflow Switch, Ire Switch, Optional Gas High/Low Pressure Switch				