



Sealed Combustion Boilers & Water Heaters



Models HD101 thru 2342B
CSA certified Low Lead Content
Less Than - .25% Pb



The Hot Water Management Experts

 Proudly assembled in U.S.A



Up to **85%** thermal efficiency!

Raypak's Hi Delta

Decades of expertise and technological innovations went into creating the Hi Delta boiler, a product that incorporates features sought after by engineers, installers and end-users alike.

In 1948, Raypak introduced the first straight copper finned tube boiler designed with reliability and serviceability in mind. The tradition continues with Raypak's Hi Delta model. It's patented burner "security blanket," an ingenious enhancement that provides a perfected air-gas pathway for complete combustion, makes the Hi Delta the most adaptable sealed-combustion boiler on the market today.

While many manufacturers claim simple, convenient heat exchanger removal, servicing the Hi Delta couldn't be more straightforward. Just open the unit from the front and slide it out on built-in runners.

Adding to the Hi Delta's ease of use is the On-board Diagnostic Center. In the event of an operating problem, this key enhancement allows an on-site technician to quickly review the unit's entire fault history, in easy to understand "real English". No cryptic codes to deal with. Our diagnostic center even offers possible solutions to the problem at hand.

The Hi Delta product family covers the full spectrum of both indoor and outdoor applications including space heating, process heating, pool heating and domestic hot water heating. When installed indoors, the Hi Delta's versatility is revealed in smaller vent diameters, direct-venting and the convenience of stacking without an increased footprint.

Raypak's focus on customer satisfaction goes beyond product design. Like all Raypak boilers, every Hi Delta is factory-fire tested, assuring reliable start-up upon installation.

For over 60 years, Raypak professionals have earned their reputation as The Hot Water Management Experts. From system design through installation and start-up, you can count on your local Raypak Representative and the backing of the industry's best sales staff, applications engineers and service department.

Key Features

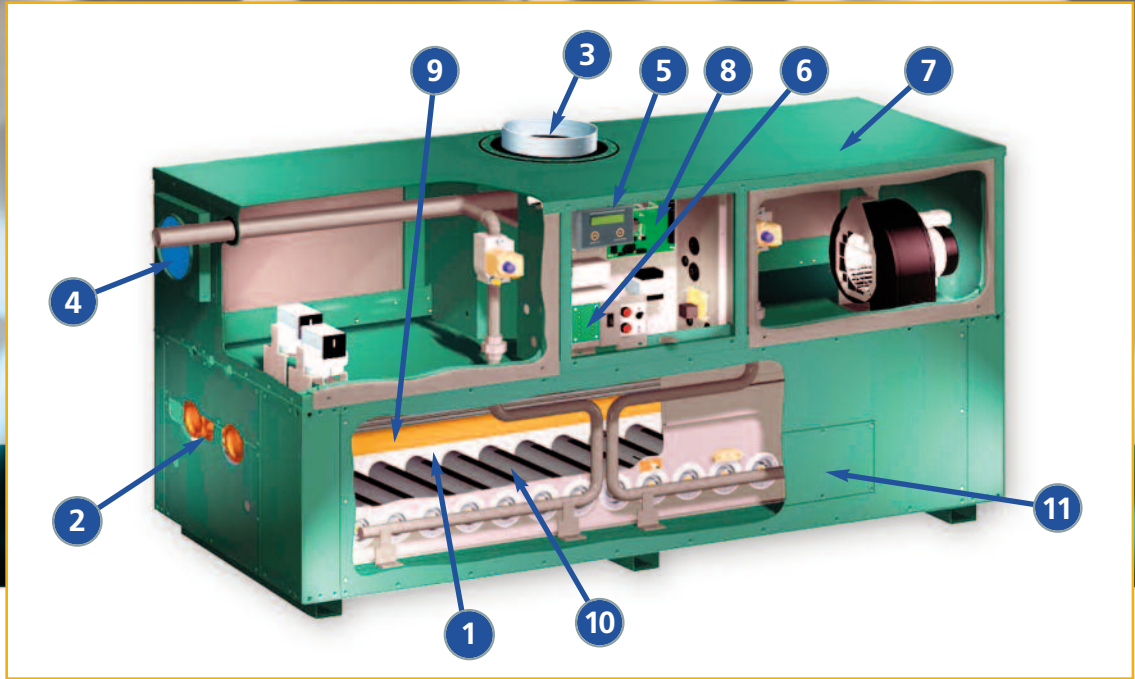
- Models from 100,000 to 2,340,000 BTUH
- All models indoor/outdoor construction
- Efficiency:
 - 84% Boilers- standard
 - 85% AFUE HD101-HD301
 - 85% Water Heaters- standard
- Patented burner "security blanket" enhances staged combustion, minimizes installation and start-up issues, and protects burners from metal fatigue
- 105°F minimum inlet water temp
- Copper finned tube heat exchanger; Cupro-nickel available
- CSA low lead certified (less than .25%)
- Bronze headers standard on water heaters, optional on boilers
- Sidewall venting ready; No extractor needed for most applications
- Ducted combustion air ready; TruSeal® CSA-certified direct-vent available
- Status display and on-board diagnostic center, real english, no codes.
- Less than 20ppm NOx

Options

- G-20 – Low Gas Pressure operation (Models 302B-2342B) CSA-certified for 4" WC supply pressure, natural gas only.
- D-14 – Rear vent option available at time of order
- D-21 – TruSeal direct vent air intake system
- A-6 – Right hand water connection

Visit our website at www.raypak.com to find the Raypak representative in your area.





1. Lightweight Refractory Panels

Multi-piece ceramic fiber panels enhance combustion while minimizing heat retention.

2. Fully-enclosed Headers

Temperature sensors and lead wires/capillaries are protected from weather, vandalism, and accidental damage during installation and service.

3. Flue Connection

Top or back outlet flue connections offer greater installation flexibility.

4. Air Filter

An easily-cleaned combustion air filter protects the burners from airborne particles including flying insects.

5. On-Board Diagnostic Center

Factory-mounted standard equipment (302-2342). Gives relevant service feedback as well as possible solutions to clear the fault. All in plain English, no cryptic codes to decipher. The control stores up to 16 faults in its history file for the service technician to review.

6. Status Display Lights

Up to 12 high-intensity LED lights, visible up-front, indicate the operating status of the boiler.

7. Construction

The cabinet and all internal parts are made from galvanized, aluminized or stainless steel. The exterior is protected by textured powder-coat paint, ideally designed for indoor or outdoor installations.

8. Central Point Wiring

Factory-made wire harnesses connect all electrical components to an easy-to-troubleshoot circuit board with multi-pin connectors.

9. Heat Exchanger Tubes

Time-proven copper finned tubes and optional cupro-nickel tubes stand up to even the harshest water conditions.

10. Burners

Special stainless steel alloy pre-mix burners provide clean, robust combustion and meet all low NOx regulations.

11. HSI Access Panel

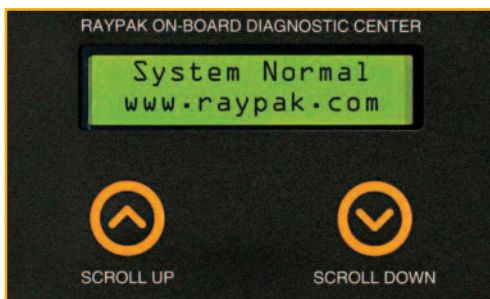
A small panel provides access to both the hot surface igniter and the flame sensor to aid inspection and service.

On-Board Diagnostic Center

Raypak's Hi Delta (302B thru 2342B) comes equipped with a microprocessor-controlled diagnostic control center that displays its information on a 2x20 character LCD display in plain English. This control monitors system safeties, ignition faults and system status, while storing up to 16 reported faults. Raypak's diagnostic center also monitors the fault outputs of the Fenwal ignition control. The Fenwal's flash codes are converted into real English fault codes that anyone can understand. The control is also equipped with a SPDT dry contact relay output that is switched anytime a safety fault occurs. This can be used for a heater alarm or a BMS safety interface.

Example Diagnostic Fault Report

Water Flow Sw Fault
Check Boiler Pump, Purge Air, Replace Flow Switch



Diagnostic Information

Safety Faults

- Manual High Limit
- Auto High Limit
- Low Water Cut-off
- Vent Pressure
- High Gas Pressure
- Low Gas Pressure
- Controller Alarm
- Flow Switch
- Blower Switch
- Factory Option
- External Interlock
- Cold Water Run

Ignition Control Faults

- Low Air
- Flame- No CFH
- Ignition Lockout
- Low HSI Current
- Low 24VAC
- Internal Control Fault



Sidewall Vent
Category III



Vertical Venting
Category I (Type B)



See Cat. 1000.16 for complete SureRack Details

Options

SureRack® Kit

The perfect solution for today's most space challenged equipment rooms. Stacking two Hi Delta 2342 boilers provides over 4.6MMBTU in just over 26 square feet plus clearances. All components (except pumps, flow switches and PRVs) are contained inside the cabinet, so there won't be any standard gas valves or fans hanging off the unit. The units remain fully serviceable even while racked.

- For models 302B thru 2342B
- No Vent Offset Required*
- Small Footprint
- Fits in Low-Ceiling Room

* Lower unit requires D-14 vent tee option.

- Heavy-Duty Construction
- Easy Assembly
- All Hardware Included
- Still Allows for Complete Servicing

Control Options

Raypak's array of leading edge controllers offer features such as: sequence-control of up to 16 boilers; PID technology; optimized approach to outdoor reset; BMS interfacing; freeze protection and other energy-saving functions. Raypak's controllers have been specially designed to maximize the performance of its leading-edge Hi Delta boilers.



B-42 TempTracker Analog

Outdoor air reset controller for on-off or 2-stage units. Outdoor reset is based on a user-defined reset ratio. Includes 5 minute pump-off delay. Standard on hydronic models 299,000 BTUH or smaller. Also available as an option for model HD401 and all WH models.



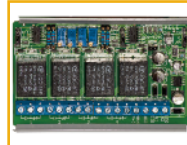
TempTracker Mod+ Hybrid

Provides functionality for multiple-boiler modulating control for precise load tracking of space heating and hot water supply systems. (See Cat. 5100.22)



TempTracker

Designed to sequence multiple boilers up to four total stages, whether it's one to four on/off boilers, two two-stage boilers, or one boiler with up to four stages. It is available factory-mounted or loose. (See Cat. 5100.22)



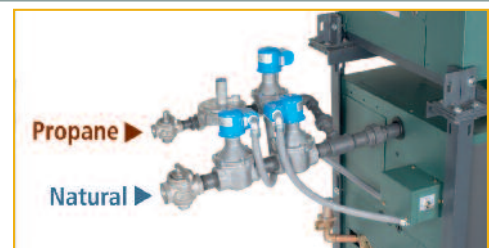
B-60 Stage Interface Card

B-60 Stage interface is designed to stage a single boiler of up to four total stages using a proportional DC voltage of milliamp current signal from a building management system or multi-boiler controller such as our Temp Tracker MOD+ Hybrid. It is available factory-mounted on stage fired boilers as well as available as a field installed kit

Flex Gas® Dual-fuel boilers and water heaters

With its patented, CSA-certified rapid fuel switchover system, the Hi Delta FlexGas is an ideal solution for interruptible-fuel applications (natural/propane gas). (See Cat. #1000.20)

- For models 302B thru 2342B
- Changeover takes less than one minute
- No mechanical components to remove or replace
- Changeover can be accomplished while firing: simply turn the key!
- Factory-installed and tested system
- CSA-Certified





Cold Water Start



Cold Water Run

Cold Water Solution Options

Cold Water Start

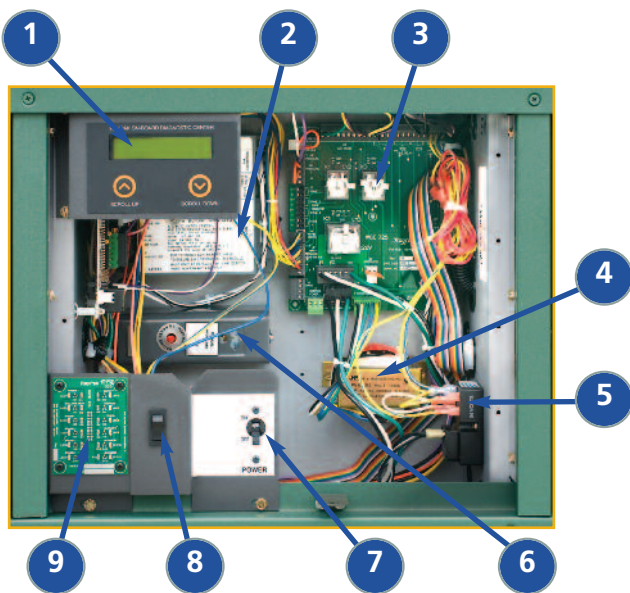
It is commonly known that prolonged internal condensation will dramatically shorten the life of standard boilers and water heaters. While Raypak boilers and water heaters can operate without harmful condensation at lower inlet water temperatures than the competition, there are still applications that require reliable protection against harmful condensation caused by frequent, extended, cold water start-ups. Raypak's **Cold Water Start** protection system is used with closed loop heating systems and utilizes a proportional three-way valve to bypass water from the boiler outlet to the inlet during start-up, when the system return water temperature is below the minimum acceptable level.

Cold Water Run

For the same reason stated for Cold Water Starts, it is even more important to provide protection against condensation from cold inlet water on systems where the return water temperature to the boiler will always be below the acceptable minimum. Raypak's **Cold Water Run** system can be used on boilers, water heaters or pool heaters, and utilizes a variable-speed pump to inject just the right amount of water from the main system loop into the boiler to maintain the optimum inlet temperature. This approach allows the full capacity of the boiler to be utilized to meet the system load, while at the same time continuously maintaining the optimum inlet water temperature to prevent condensation. (See Cat. #1000.19)

Simple Serviceability

Raypak's easy-to-understand user interface, including on-board diagnostics and LED operating status lights, tells the technician all he needs to know. All service/repair components are readily accessible from the front for maximum installation flexibility.



- 1 Diagnostic Control Center
- 2 Fenwal ignition control
- 3 Central point wiring board
- 4 Transformer
- 5 Pump delay relay
- 6 Manual reset high limit
- 7 Main power disconnect
- 8 Standby power switch
- 9 Status lights

BOILER

Ref. Dwg. pg. 5	Hi Delta Model	MBTUH Input*	MBTUH Output*		Dimensions (in.)							Operating Weight (lbs.)	Amps‡	
			Type H	Type WH 85%	A Width	B	G NPT	H NPT	K Flue Ø	T Ø	W			
1	HD101	100	85% AFUE	85	85	18-9/16	9-1/4	3/4	1-1/2	4	4	N/A	150	4.7
	HD151	150		128	128	21-7/8	10-7/8	3/4	1-1/2	4	4	N/A	175	4.7
	HD201	199		169	169	25-1/16	12-1/2	3/4	1-1/2	5	4	N/A	200	4.7
	HD251	250		213	213	28-5/16	14-1/8	3/4	1-1/2	5	4	N/A	225	4.7
	HD301	299		254	254	31-9/16	15-3/4	3/4	1-1/2	5	4	N/A	250	4.7
	HD401	399		335	339	38-1/16	19	3/4	1-1/2	6	4	N/A	300	4.7
2	302B	300	84%	252	255	36	18	3/4	2	5	6	14-3/4	380	6
	402B	399		335	339	43	21-1/2	3/4	2	6	6	18-1/2	445	6
	502B	500		420	425	50	25	1-1/4	2	6	6	22	545	6
	652B	650		546	553	60-1/2	30-1/4	1-1/4	2	8	6	27-1/4	590	6
	752B	750		630	638	67-1/2	33-3/4	1-1/4	2	8	6	30-3/4	675	6
	902B	900		756	765	78	39	1-1/4	2	8	6	36	740	7
3	992B	990	84%	832	842	57-1/8	28-9/16	2	2-1/2	10	10	16-13/16	900	<12
	1262B	1260		1058	1071	68-1/2	34-1/4	2	2-1/2	12	10	20-9/16	1010	<12
	1532B	1530		1285	1301	79-7/8	39-15/16	2	2-1/2	12	10	24-3/8	1225	<12
	1802B	1800		1512	1530	91-1/8	45-9/16	2	2-1/2	14	10	28-1/8	1350	<12
	2002B ^a	1999		1679	1699	102-1/2	51-1/4	2	2-1/2	14	10	31-15/16	1450	<12
	2072B	2070		1739	1760	102-1/2	51-1/4	2	2-1/2	14	10	31-15/16	1450	<12
	2342B	2340		1966	1989	113-7/8	56-15/16	2	2-1/2	16	10	35-11/16	1520	<12

* Ratings for models HD101-HD401 for natural or propane gas and for elevations up to 2,000 ft. above sea level. For higher elevations, consult the factory.
 Ratings for models 302B-2342B for natural or propane gas and for elevations up to 4,500 ft. above sea level. For higher elevations, consult the factory.

‡ Current draw is for heater only. (Supply breaker must have a delayed trip.)

^a Natural gas only. Not available for propane.

CLEARANCES

Boiler Side	Indoor		Outdoor	
	Minimum	Service	Minimum	Service
Floor*	0"	0"	0"	0"
Rear	1"	6"	12"	24"
Water side	12"	24"	36"	36"
Other side	1"	24"	36"	36"
Top	1"	6"	Unobstructed	Unobstructed
Front	Open	24"	Open	24"
Vent	2"	2"	N/A	N/A

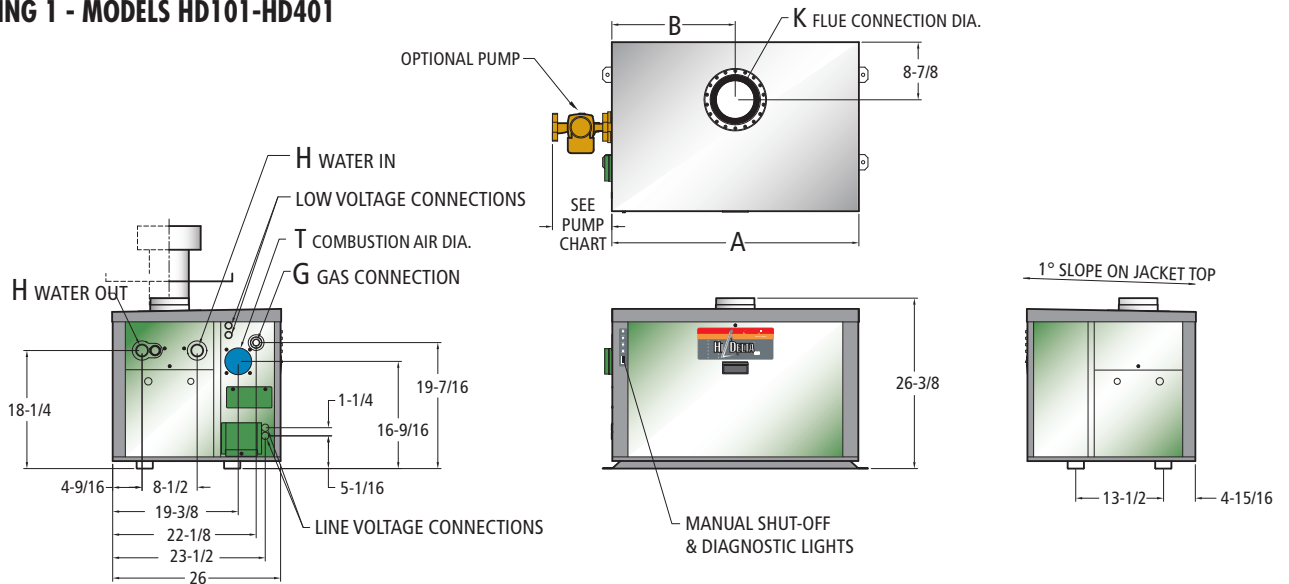
* Do not install on carpeting.

PUMP - HOT WATER SUPPLY

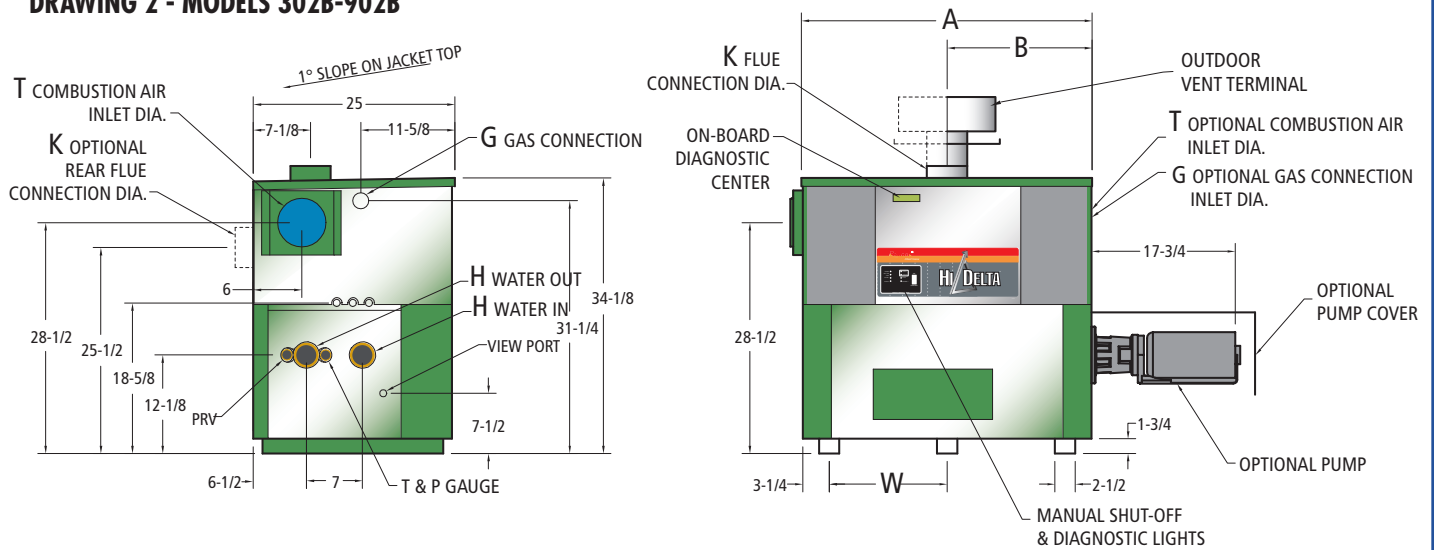
Hi Delta Model	Water Hardness					
	Soft		Medium		Hard	
	HP	Amps	HP	Amps	HP	Amps
HD101	1/8	1.1	1/8	1.3	1/4	5.7
HD151	1/8	1.1	1/8	1.3	1/4	5.7
HD201	1/8	1.1	1/8	1.3	1/4	5.7
HD251	1/8	1.1	1/8	1.3	1/4	5.7
HD301	1/8	1.1	1/8	1.3	1/4	5.7
HD401	1/8	1.1	1/8	1.3	1/4	5.7
302B	1/8	1.3	1/4	5.7	1/2	7
402B	1/8	1.3	1/4	5.7	1/2	7
502B	1/8	1.3	1/4	5.7	1/2	7
652B	1/8	1.3	1/4	5.7	1/2	7
752B	1/8	1.3	1/2	7	3/4	11
902B	1/2	7	1/2	7	3/4	11
992B	1/2	7	1/2	7	3/4	11
1262B	1/2	7	3/4	11	1	14
1532B	1/2	7	1	14	1	14
1802B	3/4	11	1	14	1-1/2	15
2002B	3/4	11	1-1/2	15	1-1/2	15
2072B	3/4	11	1-1/2	15	1-1/2	15
2342B	1	14	1-1/2	15	1-1/2	15

Note: Current draw (Amps) is for pump only.

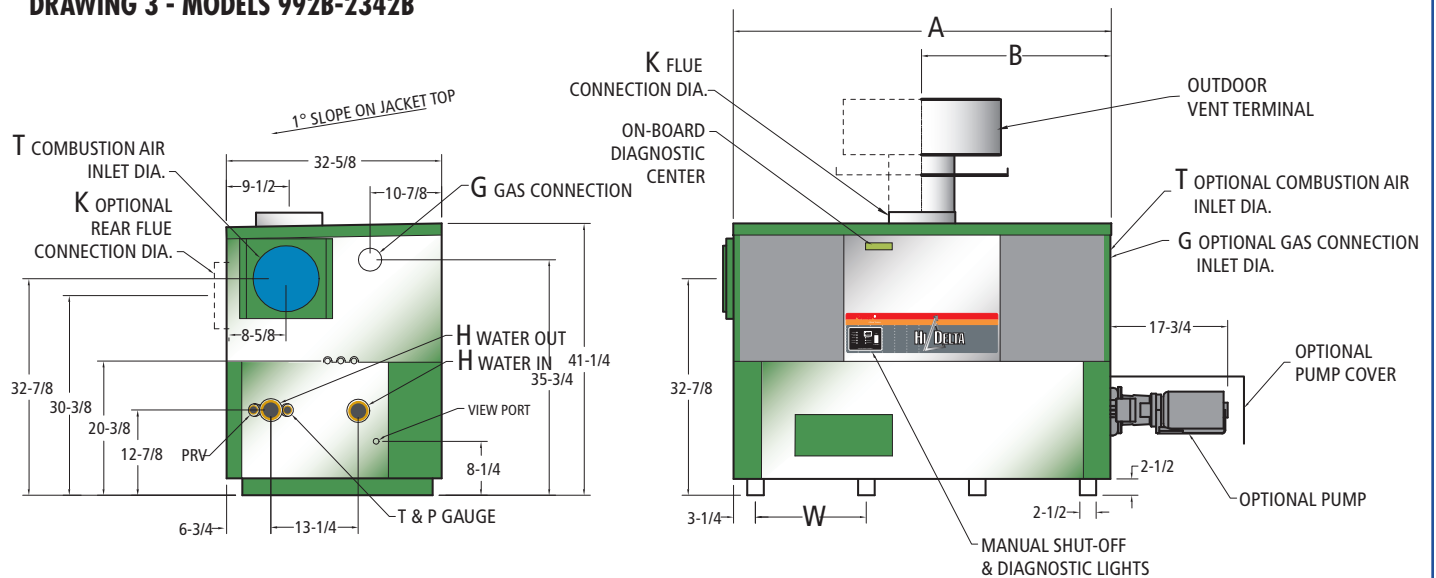
DRAWING 1 - MODELS HD101-HD401



DRAWING 2 - MODELS 302B-902B



DRAWING 3 - MODELS 992B-2342B



Hi Delta Model	Flow Rates						Pressure Drops										
	Minimum Flow			Maximum Flow			10°F ΔT		20°F ΔT		30°F ΔT		40°F ΔT				
	GPM	ΔP Ft	ΔT °F	GPM	ΔP Ft	ΔT °F	GPM	ΔP Ft	GPM	ΔP Ft	GPM	ΔP Ft	GPM	ΔP Ft			
85% AFUE	HD101	13	<1.0	14	44	8.8	4	17	1.4	Less than Minimum Flow							
	HD151	13	<1.0	20	44	8.8	6	26	3.1							13	1.0
	HD201	13	3.4	27	44	8.9	8	34	5.4	17	1.3	Less than Minimum Flow					
	HD251	13	<1.0	34	44	9.2	10	43	8.5	21	2.1					14	<1.0
	HD301	13	<1.0	41	44	9.4	12	Exceeds Maximum Flow		25	3.1					17	1.4
HD401	22	2.4	30	44	9.8	15	Exceeds Maximum Flow		34	5.6	22	2.5	17	1.4			
84% EFFICIENCY (TYPE H)	302B	20	<1.0	25	90	9.8	6	50	3.3	25	<1.0	Less than Minimum Flow					
	402B	20	<1.0	34	90	10.0	7	67	5.8	34	1.4	22	<1.0	Less than Minimum Flow			
	502B	21	<1.0	40	90	10.4	9	84	9.1	42	2.3	28	1.1	21	<1.0		
	652B	27	1.1	40	90	10.8	12	Exceeds Maximum Flow			55	4.1	36	1.8	27	1.1	
	752B	32	1.5	40	90	11.3	14				63	5.7	42	2.6	32	1.5	
	902B	38	2.2	40	90	11.7	17				76	8.3	50	3.8	38	2.2	
	992B	42	1.3	40	132	13.1	13				83	5.2	55	2.3	42	1.3	
	1262B	53	2.4	40	132	14.8	16				106	9.6	71	4.3	53	2.4	
	1532B	64	4.0	40	132	16.5	19				129	15.7	86	7.1	64	4.0	
	1802B	76	6.0	40	132	18.3	23				101		10.7	76	6.0		
	2002B	84	7.9	40	132	19.0	25				112		13.8	84	7.9		
	2072B	87	8.5	40	132	19.0	26				116		14.8	87	8.5		
	2342B	98	12.1	40	132	21.4	30				131		21.1	98	12.1		

Hi Delta Model	Water Hardness												MTS
	Soft				Medium				Hard				
	ΔT °F	GPM	ΔP Ft	SHL*	ΔT °F	GPM	ΔP Ft	SHL*	ΔT °F	GPM	ΔP Ft	SHL*	
HD101	9	20	1.8	3.8	7	26	3.0	6.3	4	45	9.2	18.0	1-1/2"
HD151	13	20	1.8	3.8	10	26	3.1	6.3	6	45	9.2	18.1	1-1/2"
HD201	17	20	1.9	3.9	13	26	3.2	6.4	8	45	9.4	18.2	1-1/2"
HD251	21	20	1.9	3.9	16	26	3.2	6.5	9	45	9.6	18.5	1-1/2"
HD301	25	20	1.9	3.9	20	26	3.2	6.5	11	45	9.8	18.7	1-1/2"
HD401	31	22	2.4	4.8	26	26	3.3	6.6	15	45	10.3	19.1	1-1/2"
302B	13	40	2.0	5.1	10	52	3.3	8.3	7	74	6.6	16.3	2"
402B	17	40	2.0	5.1	13	52	3.4	8.4	9	74	6.8	16.4	2"
502B	21	40	2.1	5.2	16	52	3.5	8.6	12	73	6.9	16.3	2"
652B	28	40	2.2	5.3	20	55	4.1	9.7	15	72	7.0	16.2	2"
752B	30	42	2.6	6.0	17	73	7.5	16.9	14	90	11.3	25.1	2"
902B	30	51	3.9	8.7	21	73	7.8	17.2	17	90	11.7	25.5	2"
992B	28	60	2.7	5.2	17	98	7.3	13.3	13	132	13.1	23.6	2-1/2"
1262B	30	72	4.4	7.9	19	115	11.3	19.4	16	132	14.8	25.3	2-1/2"
1532B	30	86	7.1	11.9	22	120	13.7	22.5	20	132	16.5	27.0	2-1/2"
1802B	30	102	10.9	17.4	26	120	15.1	23.9	23	132	18.3	28.7	2-1/2"
2002B	30	112	13.9	21.6	26	132	19.0	29.5	26	132	19.0	29.5	2-1/2"
2072B	30	117	15.1	23.4	27	132	19.0	29.5	27	132	19.0	29.5	2-1/2"
2342B	30	132	21.4	31.8	30	132	21.4	31.8	30	132	21.4	31.8	2-1/2"

NOTES: Minimum flow rates in closed systems may be reduced to a flow rate consistent with a 40°F ΔT.
Maximum flow rates are limited by maximum acceptable velocity through the heat exchanger tubes and may be increased by 10% for closed heating systems. Pressure drop would increase 21%.
*SHL = Calculated at 100 feet effective pipe length.



		Recovery Rates (GPH)															
Hi Delta Model	MBTUH Input	Temperature Rise (°F)															
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
85% AFUE	HD101	100	1020	510	340	255	204	170	146	128	113	102	93	85	78	73	68
	HD151	150	1531	765	510	383	306	255	219	191	170	153	139	128	118	109	102
	HD201	199	2031	1015	677	508	406	338	290	254	226	203	185	169	156	145	135
	HD251	250	2551	1276	850	638	510	425	364	319	283	255	232	213	196	182	170
	HD301	299	3051	1526	1017	763	610	509	436	381	339	305	277	254	235	218	203
84% EFFICIENCY (TYPE H)	HD401	399	4024	2012	1341	1006	805	671	575	503	447	402	366	335	310	287	268
	302B	300	3055	1527	1018	764	611	509	436	382	339	305	278	255	235	218	204
	402B	399	4063	2031	1354	1016	813	677	580	508	451	406	369	339	313	290	271
	502B	500	5091	2545	1697	1273	1018	848	727	636	566	509	463	424	392	364	339
	652B	650	6618	3309	2206	1655	1324	1103	945	827	735	662	602	552	509	473	441
	752B	750	7636	3818	2545	1909	1527	1273	1091	955	848	764	694	636	587	545	509
	902B	900	9164	4582	3055	2291	1833	1527	1309	1145	1018	916	833	764	705	655	611
	992B	990	10080	5040	3360	2520	2016	1680	1440	1260	1120	1008	916	840	775	720	672
	1262B	1260	12829	6415	4276	3207	2566	2138	1833	1604	1425	1283	1166	1069	987	916	855
	1532B	1530	15578	7789	5193	3895	3116	2596	2225	1947	1731	1558	1416	1298	1198	1113	1039
	1802B	1800	18327	9164	6109	4582	3665	3055	2618	2291	2036	1833	1666	1527	1410	1309	1222
	2002B	1999	20353	10177	6784	5088	4071	3392	2908	2544	2261	2035	1850	1696	1566	1454	1357
	2072B	2070	21076	10538	7025	5269	4215	3513	3011	2635	2342	2108	1916	1756	1621	1505	1405
	2342B	2340	23825	11913	7942	5956	4765	3971	3404	2978	2647	2383	2166	1985	1833	1702	1588

		Recovery Rates (GPH)															
Hi Delta Model	MBTUH Input	Temperature Rise (°F)															
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
85% EFFICIENCY (TYPE WH)	HD101	100	1020	510	340	255	204	170	146	128	113	102	93	85	78	73	68
	HD151	150	1531	765	510	383	306	255	219	191	170	153	139	128	118	109	102
	HD201	199	2031	1015	677	508	406	338	290	254	226	203	185	169	156	145	135
	HD251	250	2551	1276	850	638	510	425	364	319	283	255	232	213	196	182	170
	HD301	299	3051	1526	1017	763	610	509	436	381	339	305	277	254	235	218	203
	HD401	399	4071	2036	1357	1018	814	679	582	509	452	407	370	339	313	291	271
	302B	300	3091	1545	1030	773	618	515	442	386	343	309	281	258	238	221	206
	402B	399	4111	2055	1370	1028	822	685	587	514	457	411	374	343	316	294	274
	502B	500	5152	2576	1717	1288	1030	859	736	644	572	515	468	429	396	368	343
	652B	650	6697	3348	2232	1674	1339	1116	957	837	744	670	609	558	515	478	446
	752B	750	7727	3864	2576	1932	1545	1288	1104	966	859	773	702	644	594	552	515
	902B	900	9273	4636	3091	2318	1855	1545	1325	1159	1030	927	843	773	713	662	618
	992B	990	10200	5100	3400	2550	2040	1700	1457	1275	1133	1020	927	850	785	729	680
	1262B	1260	12982	6491	4327	3245	2596	2164	1855	1623	1442	1298	1180	1082	999	927	865
	1532B	1530	15764	7882	5255	3941	3153	2627	2252	1970	1752	1576	1433	1314	1213	1126	1051
	1802B	1800	18545	9273	6182	4636	3709	3091	2649	2318	2061	1855	1686	1545	1427	1325	1236
	2002B	1999	20596	10298	6865	5149	4119	3433	2942	2574	2288	2060	1872	1716	1584	1471	1373
2072B	2070	21327	10664	7109	5332	4265	3555	3047	2666	2370	2133	1939	1777	1641	1523	1422	
2342B	2340	24109	12055	8036	6027	4822	4018	3444	3014	2679	2411	2192	2009	1855	1722	1607	

		HD101-HD401	302B-902B	992B-2342B	HD101-HD401	302B-902B	992B-2342B	
HEAT EXCHANGER	ASME, National Board Registered, 160 PSI	H Stamp	●	●	●	N/A	N/A	N/A
		HLW Stamp	N/A	N/A	N/A	●	●	●
	Heat Exchanger Tubes	Copper	●	●	●	●	●	●
		Cupro Nickel	○	○	○	○	○	○
	Headers	Bronze	○	○	○	●	●	●
		Cast Iron	●	●	●	○	○	○
	Pressure Relief Valve	30, 45, 75 & 150 PSI Available	○	○	○	○	○	○
	60 & 125	●	●	●	●	●	●	
	Temperature & Pressure Gauge	●	●	●	●	●	●	
	Pump – 120V, Single-Phase	○	○	○	○	○	○	
OPERATING CONTROLS	120V Power Supply	With 120V/24V Transformer	●	●	●	●	●	●
	Pump Time Delay	Single Phase	●	●	●	●	●	●
	Diagnostic Display Central	16-Event Memory	N/A	●	●	N/A	●	●
	Temperature Controller	B-20: On/Off, Mechanical	○	○	○	○	○	○
		B-28: On/Off, Digital	○	○	○	○	○	○
		B-6: 2-Stage, Mechanical	○	○	○	○	○	○
		B-26–B-27: 2-Stage, Digital	○	○	○	○	○	○
		B-21–B-23: 4-Stage, Digital	○	○	○	○	○	○
B-60 Stage Interface Card		○	○	○	○	○	○	
TempTracker Mod+ Hybrid		○	○	○	○	○	○	
B-42 TempTracker Analog	(9)	○	○	○	○	○	○	
SAFETIES	Hot Surface Ignition System	3-try	●	●	●	●	●	●
		1-try	N/A	○	○	N/A	○	○
	High Gas Pressure Switch		○	○	○	○	○	○
	Low Gas Pressure Switch		○	○	●	○	○	●
	Blocked Vent and Air Pressure Switches		●	●	●	●	●	●
	High Limit Switch	Manual Reset, Fixed	●	N/A	N/A	●	N/A	N/A
		Manual Reset, Adjustable	○	●	●	○	●	●
Automatic Reset, Adjustable		○	(1)	○	○	○	○	
Low Water Cut-Off, 24V	With manual reset and test button	○	○	○	○	○	○	
Flow Switch		●	●	●	●	●	●	
GAS TRAIN	Firing Mode	On/Off (H4, WH1)	○	(2)	○	●	(2)	○
		2-Stage (H3, WH3)	●	(3)	○	○	(3)	○
		3-Stage (H8, WH8)	N/A	N/A	(4)	N/A	N/A	(4)
		4-Stage (H9, WH9)	N/A	N/A	(5)	N/A	N/A	(5)
	4" WC Supply Pressure	Natural Gas Only	●	○	(6)	●	○	(6)
AIR	TruSeal Direct Vent System		●	○	○	●	○	○
	Air Filter, Room Air		●	●	●	●	●	●
	Air Filter, Ducted Outside Air		●	○	○	●	○	○
OTHER	Efficiency	84% (Category I)	●	●	●	N/A	N/A	N/A
		85% (Category I)	N/A	N/A	N/A	●	●	●
	Combustible Floor Rated		●	●	●	●	●	●
	Alarm System		○	○	○	○	○	○
	Vent Terminal	Outdoor and Through-the-Wall	○	○	○	○	○	○
	Right-Hand Water Connections		○	○	○	○	○	○
	CSD-1/GE GAP Control System		N/A	(7)	○	N/A	(7)	○
	Low NOx Compliance	Less than 20ppm	●	●	(8)	●	●	(8)
	Cold Water Start	Cold water protection systems	N/A	○	○	N/A	○	○
	Cold Water Run	Cold water protection systems	○	○	○	○	○	○

Notes:

- 1 Standard on on/off boilers (H4); Optional on all others
- 2 Standard on Models 302B and 402B; Optional on Models 502B-902B
- 3 Optional on Models 302B and 402B; Standard on Models 502B-902B
- 4 Standard on 992B; Optional on 1262B-2342B
- 5 Not available on Model 992B; Standard on Models 1262B-2342B
- 6 Option but not available on Model 2002B
- 7 Not applicable for Models 302B and 402B; Optional for Models 502B-902B
- 8 Standard on Models 992B-2002B; Models 2072B and 2342B
- 9 Standard on HD101-HD301

● ● = Standard ○ ○ = Optional

