

Sealed Combustion Boilers & Water Heaters

UP TO 85% THERMAL EFFICIENCY



Models 3026 thru 23426 CSA certified Low Lead Content

Less Than - .25% Lead



The Hot Water Management Experts

Proudly assembled in U.S.A



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 300,000 to 2,340,000 BTUH
- Versa IC® Control
- Cascade up to 4 units
- All models indoor/outdoor construction
- Efficiency:
 - 85% Water Heaters- standard
 - 84% Boilers- 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 standard; Cupro-nickel optional
- 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
 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



VERSA IC Boiler Control and On-Board Diagnostic Center

VERSA IC merges safety, ignition, temperature control, multi-unit cascade outdoor reset and freeze protection. Plus system monitoring, diagnostics, and BMS transmission all in one Integrated Control Platform. Easy front access to read, set up and trouble shoot on a 3.5"LCD screen. The entire package is CSA certified, and listed for each individual function.

Inlet and outlet sensors factor installed in boiler. Remote sensor for system included. BMS all point diagnostics transmission port. 0-10VDC set point input standard. Also can drive and monitor external motorized auxiliaries such as extractors and louvers. Additional connections for auxiliary functions, indirect DHW, and dry contact remote alarm relay are provided.

Example Diagnostic Fault Report

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

Diagnostic Information

Control Faults

- Low 24VAC
- Control Setup
- ID Card Fail
- Device Lost
- Device Error
- PIM Error

Ignition Control Faults

- Ignition Lockout
- False Flame
- Ignition Failure
- Low HSI Current
- Blower Speed

Safety Faults

- Sensor Failure 6
- Vent Block
- Manual Limit
- Auto Limit
- Water Flow
- Delta T Fault
- Low Water
- Low Gas
- High Gas
- Extra 1
- Options

Outdoor Proven

Raypak is no stranger to the outdoor environment. Our touchpad is 100% waterproof and has been proven and perfected on our pool products. No guesswork here, just one tough boiler ready to take on jobs that others have to walk away from.

Building Management System Interface

The Versa IC includes a Modbus communications port as standard for continuous monitoring, trending and troubleshooting. BACnet MS/TP, BACnet IP, N2 Metasys, Modbus TCP and LONworks are available via optional gateways pre-configured from Raypak for seamless integration into a wide range of building management systems.



BACnet®, Metasys® Modbus®



LONworks® gateway module (optional)





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 302C thru 2342C
- No Vent Offset Required*
 - * Lower unit requires D-14 vent tee option.
- Small Footprint
- Fits in Low-Ceiling Room
- Heavy-Duty Construction
- Easy Assembly
- All Hardware Included
- Still Allows for Complete Servicing

See Cat. 1000.16 for

complete SureRack Details

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 302C thru 2342C
- 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 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 only 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.

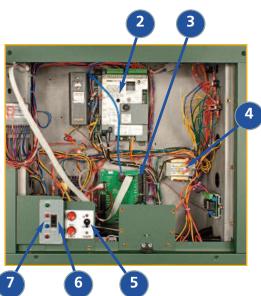
Cold Water Run

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 VERSA IC user interface
- 2 Platform Ignition Module
- 3 Versa Board
- 4 Transformer
- 5 Main power disconnect
- 6 Standby power switch
- 7 Status lights

	Ref.	ur p. k		MBTUH	Output*		Dir	mensions (in.)			Operating	
	Dwg. pg. 5	Hi Delta Model	MBTUH Input*	Type H 84%	Type WH 85%	A Width	В	G NPT	K Flue Ø	W	Weight (lbs.)	Amps‡
		302C	300	252	255	36	18	3/4	5	14-3/4	380	6
		402C	399	335	339	43	21-1/2	3/4	6	18-1/2	445	6
	1	502C	500	420	425	50	25	1-1/4	6	22	545	6
쏦	'	652C	650	546	553	60-1/2	30-1/4	1-1/4	8	27-1/4	590	6
BOILER		752C	750	630	638	67-1/2	33-3/4	1-1/4	8	30-3/4	675	6
BC		902C	900	756	765	78	39	1-1/4	8	36	740	7
		992C	990	832	842	57-1/8	28-9/16	2	10	16-13/16	900	<12
		1262C	1260	1058	1071	68-1/2	34-1/4	2	12	20-9/16	1010	<12
		1532C	1530	1285	1301	79-7/8	39-15/16	2	12	24-3/8	1225	<12
	2	1802C	1800	1512	1550	91-1/8	45-9/16	2	14	28-1/8	1350	<12
	_	2002C ^a	1999	1679	1699	102-1/2	51-1/4	2	14	31-15/16	1450	<12
		2072C	2070	1739	1760	102-1/2	51-1/4	2	14	31-15/16	1450	<12
		2342C	2340	1966	1989	113-7/8	56-15/16	2	16	35-11/16	1520	<12

^{*} Ratings for models 302C-2342C 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.)

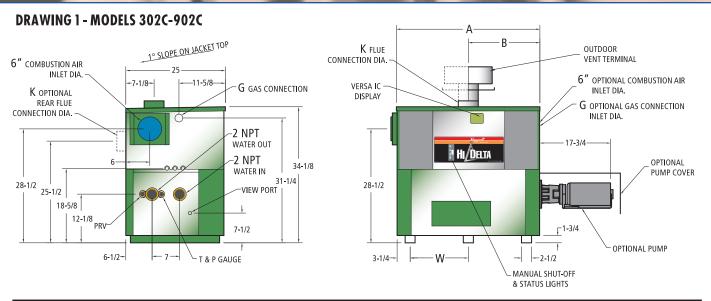
a Natural gas only. Not available for propane.

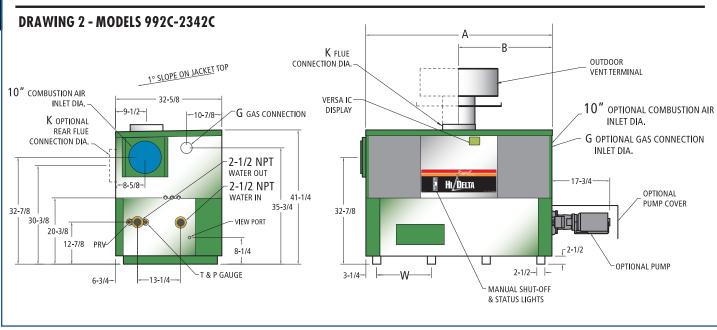
	Boiler	Ind	oor	Out	door
	Side	Minimum	Service	Minimum	Service
CLEARANCES	Floor*	0"	0"	0"	0"
ž	Rear	1"	6"	12"	24"
\ <u>₹</u>	Water side	12"	24"	36"	36"
<u> </u>	Other side	1″	24"	36"	36"
Ū	Тор	1″	6"	Unobstructed	Unobstructed
	Front	Open	24"	Open	24"
	Vent	2"	2"	N/A	N/A

^{*} Do not install on carpeting.

		Water Hardness											
	Hi Delta Model	S	oft	Med	lium	Hard							
		HP	Amps	HP	Amps	HP	Amps						
Σ	302C	1/8	1.3	1/4	5.7	1/2	7						
PUMP - HOT WATER SUPPLY	402C	1/8	1.3	1/4	5.7	1/2	7						
8 S	502C	1/8	1.3	1/4	5.7	1/2	7						
買	652C	1/8	1.3	1/4	5.7	1/2	7						
×	752C	1/8	1.3	1/2	7	3/4	11						
ОТ	902C	1/2	7	1/2	7	3/4	11						
푸	992C	1/2	7	1/2	7	3/4	11						
₽ 	1262C	1/2	7	3/4	11	1	14						
E	1532C	1/2	7	1	14	1	14						
	1802C	3/4	11	1	14	1-1/2	15						
	2002C	3/4	11	1-1/2	15	1-1/2	15						
	2072C	3/4	11	1-1/2	15	1-1/2	15						
	2342C	1	14	1-1/2	15	1-1/2	15						

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





				Flow	Rates						Pressur	e Drops			
	Hi Delta Model	Mi	nimum Fl	OW	Ma	ximum F	low	10°	F ΔT	20°F	ΔΤ	30°l	- ΔΤ	40°F	ΔΤ
	Model	GPM	$\Delta P \; Ft$	Δ T $^{\circ}$ F	GPM	Δ P Ft	ΔT °F	GPM	$\Delta P \; Ft$	GPM	Δ P Ft	GPM	$\Delta P \; Ft$	GPM	ΔP Ft
	302C	20	0.5	26	90	9.8	6	51	3.2	26	0.8	L	ess than Mi	nimum Flov	V
Î	402C	20	0.5	34	90	10.0	8	68	5.7	34	1.4	23	0.6		
ш	502C	28	1.1	30	90	10.4	9	85	9.3	43	2.4	28	1.1	21	0.6
ΥP	652C	37	1.9	30	90	10.8	12			55	4.2	37	1.9	28	1.1
E	752C	43	2.6	30	90	11.3	14			64	5.8	43	2.6	32	1.5
≿	902C	51	3.9	30	90	11.7	17			77	8.5	51	3.9	38	2.2
FICIENCY	992C	56	2.4	30	132	13.1	13			84	5.4	56	2.4	42	1.4
8	1262C	71	4.4	30	132	14.8	16			107	9.8	71	4.4	54	2.5
藍	1532C	87	7.2	30	132	16.5	20		_	130	16.1	87	7.2	65	4.1
#	1802C	87	8.0	35	132	18.3	23				_	102	10.9	77	6.2
84%	2002C	97	10.5	35	132	19.0	26		Exceeds Ma	ximum Flow		113	14.2	85	8.1
84	2072C	101	11.2	35	132	19.0	27		LACCEUS IVIU			117	15.1	88	8.7
	2342C	114	16.0	35	132	21.4	30					133	21.6	99	12.3

							Water F	lardness						
	Hi Delta Model		Sc	oft			Med	dium			Ha	Minimum Tube Size (MTS)		
WH)	model	Δ T °F	GPM	$\Delta P \; Ft$	SHL*	ΔT °F	GPM	$\Delta P \; Ft$	SHL*	ΔT °F	GPM	$\Delta P \; Ft$	SHL*	5.20 (5)
F	302C	13	40	2.0	3.5	10	52	3.3	5.8	6	90	9.8	16.7	2"
ĭ	402C	17	40	2.0	3.5	13	52	3.4	5.9	8	90	10.0	16.9	2"
	502C	21	40	2.1	3.7	16	52	3.5	6.1	9	90	10.4	17.3	2"
≥	652C	28	40	2.2	3.8	20	55	4.1	6.9	12	90	10.8	17.7	2"
Ž	752C	30	42	2.6	4.3	20	63	5.7	9.2	14	90	11.3	18.2	2"
FICIENCY	902C	30	51	3.9	6.3	20	76	8.4	13.5	17	90	11.7	18.6	2"
	992C	28	60	2.7	4.0	20	83	5.2	7.4	13	132	13.1	18.4	2-1/2"
告	1262C	30	72	4.4	6.2	20	106	9.6	13.1	16	132	14.8	20.1	2-1/2"
2%	1532C	30	86	7.1	9.5	20	132	16.5	21.8	20	132	16.5	21.8	2-1/2"
85	1802C	30	102	10.9	17.4	25	120	15.1	23.9	23	132	18.3	28.7	2-1/2"
~	2002C	30	112	13.9	17.7	26	132	19.0	24.3	26	132	19.0	24.3	2-1/2"
	2072C	30	116	14.8	18.9	27	132	19.0	24.3	27	132	19.0	24.3	2-1/2"
	2342C	30	132	21.4	26.6	30	132	21.4	26.6	30	132	21.4	26.6	2-1/2"

NOTES: Minimum flow rates in closed systems may be reduced to a flow rate consistent with a 39°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.

												14			- 4		
								Recover	y Rates	(GPH)							
ı	Hi Delta	MBTUH							Temper	ature Ri	se (°F)						
	Model	Input	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
£	302C	300	3055	1527	1018	764	611	509	436	382	339	305	278	255	235	218	204
		399	4063	2031	1354	1016	813	677	580	508	451	406	369	339	313	290	271
1 2	502C	500	5091	2545	1697	1273	1018	848	727	636	566	509	463	424	392	364	339
(TYPF	652C	650	6618	3309	2206	1655	1324	1103	945	827	735	662	602	552	509	473	441
	/32C	750	7636	3818	2545	1909	1527	1273	1091	955	848	764	694	636	587	545	509
	902C	900	9164	4582	3055	2291	1833	1527	1309	1145	1018	916	833	764	705	655	611
FEICIENCY	992C	990	10080	5040	3360	2520	2016	1680	1440	1260	1120	1008	916	840	775	720	672
ב	1262C	1260	12829	6415	4276 5193	3207	2566	2138	1833	1604	1425	1283	1166	1069	987	916	855
#	1532C	1530	15578	7789	6109	3895	3116 3665	2596 3055	2225 2618	1947 2291	1731 2036	1558 1833	1416 1666	1298 1527	1198	1113	1039 1222
ш.	1602C	1800	18327	9164		4582 5088		3392	2908	2544	2036	2035	1850		1410	1309	
% T &	2002C 2072C	1999 2070	20353 21076	10177 10538	6784 7025	5269	4071 4215	3513	3011	2635	2342	2108	1916	1696 1756	1566 1621	1454 1505	1357 1405
o o o	2342C	2340	23825	11913	7942	5956	4765	3971	3404	2978	2647	2383	2166	1985	1833	1702	1588
	23420	2340	23023	11913	7342	3930	4/03	3371	3404	2970	2047	2303	2100	1303	1033	1702	1300
								Recover	y Rates	(GPH)							
	Hi Delta	MRTUH						Recover			se (°F)						
£	Hi Delta Model		10	20	30	40	50		Temper	ature Ri		100	110	120	130	1/10	150
WH)	Model	Input	10	20	30	40	50	60	Temper	ature Ri 80	90	100	110	120	130	140	150
	Model	Input 300	3091	1545	1030	773	618	60 515	Temper 70 442	ature Ri 80 386	90 343	309	281	258	238	221	206
	302C 402C	300 399	3091 4111	1545 2055	1030 1370	773 1028	618 822	60 515 685	Temper 70 442 587	80 386 514	90 343 457	309 411	281 374	258 343	238 316	221 294	206 274
(TYPE	302C 402C 502C	300 399 500	3091 4111 5152	1545 2055 2576	1030 1370 1717	773 1028 1288	618 822 1030	60 515 685 859	Temper 70 442 587 736	80 386 514 644	90 343 457 572	309 411 515	281 374 468	258 343 429	238 316 396	221 294 368	206 274 343
(TYPE	302C 402C 502C	300 399 500 650	3091 4111 5152 6697	1545 2055 2576 3348	1030 1370 1717 2232	773 1028 1288 1674	618 822 1030 1339	515 685 859 1116	Temper 70 442 587 736 957	386 514 644 837	90 343 457 572 744	309 411 515 670	281 374 468 609	258 343 429 558	238 316 396 515	221 294 368 478	206 274 343 446
(TYPE	302C 402C 502C	300 399 500 650 750	3091 4111 5152 6697 7727	1545 2055 2576 3348 3864	1030 1370 1717 2232 2576	773 1028 1288 1674 1932	618 822 1030 1339 1545	515 685 859 1116 1288	Temper 70 442 587 736 957 1104	386 514 644 837 966	90 343 457 572 744 859	309 411 515 670 773	281 374 468 609 702	258 343 429 558 644	238 316 396 515 594	221 294 368 478 552	206 274 343 446 515
(TYPE	302C 402C 502C	300 399 500 650 750 900	3091 4111 5152 6697 7727 9273	1545 2055 2576 3348 3864 4636	1030 1370 1717 2232 2576 3091	773 1028 1288 1674 1932 2318	618 822 1030 1339 1545 1855	515 685 859 1116 1288 1545	Temper 70 442 587 736 957 1104 1325	386 514 644 837 966 1159	90 343 457 572 744 859 1030	309 411 515 670 773 927	281 374 468 609 702 843	258 343 429 558 644 773	238 316 396 515 594 713	221 294 368 478 552 662	206 274 343 446 515 618
(TYPE	302C 402C 502C	300 399 500 650 750 900 990	3091 4111 5152 6697 7727 9273 10200	1545 2055 2576 3348 3864 4636 5100	1030 1370 1717 2232 2576 3091 3400	773 1028 1288 1674 1932 2318 2550	618 822 1030 1339 1545 1855 2040	515 685 859 1116 1288 1545 1700	Temper 70 442 587 736 957 1104 1325 1457	386 514 644 837 966 1159 1275	90 343 457 572 744 859 1030 1133	309 411 515 670 773 927 1020	281 374 468 609 702 843 927	258 343 429 558 644 773 850	238 316 396 515 594 713 785	221 294 368 478 552 662 729	206 274 343 446 515 618 680
FEEICIENCY (TYPE	302C 402C 502C 652C 752C 902C 992C 1262C	300 399 500 650 750 900 990 1260	3091 4111 5152 6697 7727 9273 10200 12982	1545 2055 2576 3348 3864 4636 5100 6491	1030 1370 1717 2232 2576 3091 3400 4327	773 1028 1288 1674 1932 2318 2550 3245	618 822 1030 1339 1545 1855 2040 2596	515 685 859 1116 1288 1545 1700 2164	Temper 70 442 587 736 957 1104 1325 1457 1855	386 514 644 837 966 1159 1275 1623	90 343 457 572 744 859 1030 1133 1442	309 411 515 670 773 927 1020 1298	281 374 468 609 702 843 927 1180	258 343 429 558 644 773 850 1082	238 316 396 515 594 713 785 999	221 294 368 478 552 662 729 927	206 274 343 446 515 618 680 865
FEEICIENCY (TYPE	302C 402C 502C 652C 752C 902C 992C 1262C	300 399 500 650 750 900 990 1260 1530	3091 4111 5152 6697 7727 9273 10200 12982 15764	1545 2055 2576 3348 3864 4636 5100 6491 7882	1030 1370 1717 2232 2576 3091 3400 4327 5255	773 1028 1288 1674 1932 2318 2550 3245 3941	618 822 1030 1339 1545 1855 2040 2596 3153	515 685 859 1116 1288 1545 1700 2164 2627	Temper 70 442 587 736 957 1104 1325 1457 1855 2252	386 514 644 837 966 1159 1275 1623	90 343 457 572 744 859 1030 1133 1442 1752	309 411 515 670 773 927 1020 1298 1576	281 374 468 609 702 843 927 1180 1433	258 343 429 558 644 773 850 1082 1314	238 316 396 515 594 713 785 999 1213	221 294 368 478 552 662 729 927 1126	206 274 343 446 515 618 680 865
(TYPE	302C 402C 502C 652C 752C 902C 992C 1262C 1532C 1802C	300 399 500 650 750 900 990 1260 1530 1800	3091 4111 5152 6697 7727 9273 10200 12982 15764 18545	1545 2055 2576 3348 3864 4636 5100 6491 7882 9273	1030 1370 1717 2232 2576 3091 3400 4327 5255 6182	773 1028 1288 1674 1932 2318 2550 3245 3941 4636	618 822 1030 1339 1545 1855 2040 2596 3153 3709	515 685 859 1116 1288 1545 1700 2164 2627 3091	Temper 70 442 587 736 957 1104 1325 1457 1855 2252 2649	386 514 644 837 966 1159 1275 1623 1970 2318	90 343 457 572 744 859 1030 1133 1442 1752 2061	309 411 515 670 773 927 1020 1298 1576 1855	281 374 468 609 702 843 927 1180 1433 1686	258 343 429 558 644 773 850 1082 1314 1545	238 316 396 515 594 713 785 999 1213 1427	221 294 368 478 552 662 729 927 1126 1325	206 274 343 446 515 618 680 865 1051 1236
5% FEEICIENCY (TYPE	Model 302C 402C 502C 652C 752C 902C 992C 1262C 1532C 1802C 2002C	300 399 500 650 750 900 990 1260 1530 1800	3091 4111 5152 6697 7727 9273 10200 12982 15764 18545 20596	1545 2055 2576 3348 3864 4636 5100 6491 7882 9273 10298	1030 1370 1717 2232 2576 3091 3400 4327 5255 6182 6865	773 1028 1288 1674 1932 2318 2550 3245 3941 4636 5149	618 822 1030 1339 1545 1855 2040 2596 3153 3709 4119	515 685 859 1116 1288 1545 1700 2164 2627 3091 3433	Temper 70 442 587 736 957 1104 1325 1457 1855 2252 2649 2942	386 514 644 837 966 1159 1275 1623 1970 2318 2574	90 343 457 572 744 859 1030 1133 1442 1752 2061 2288	309 411 515 670 773 927 1020 1298 1576 1855 2060	281 374 468 609 702 843 927 1180 1433 1686 1872	258 343 429 558 644 773 850 1082 1314 1545 1716	238 316 396 515 594 713 785 999 1213 1427 1584	221 294 368 478 552 662 729 927 1126 1325	206 274 343 446 515 618 680 865 1051 1236 1373
5% FEEICIENCY (TYPE	302C 402C 502C 652C 752C 902C 992C 1262C 1532C 1802C	300 399 500 650 750 900 990 1260 1530 1800	3091 4111 5152 6697 7727 9273 10200 12982 15764 18545	1545 2055 2576 3348 3864 4636 5100 6491 7882 9273	1030 1370 1717 2232 2576 3091 3400 4327 5255 6182	773 1028 1288 1674 1932 2318 2550 3245 3941 4636	618 822 1030 1339 1545 1855 2040 2596 3153 3709	515 685 859 1116 1288 1545 1700 2164 2627 3091	Temper 70 442 587 736 957 1104 1325 1457 1855 2252 2649	386 514 644 837 966 1159 1275 1623 1970 2318	90 343 457 572 744 859 1030 1133 1442 1752 2061	309 411 515 670 773 927 1020 1298 1576 1855	281 374 468 609 702 843 927 1180 1433 1686	258 343 429 558 644 773 850 1082 1314 1545	238 316 396 515 594 713 785 999 1213 1427	221 294 368 478 552 662 729 927 1126 1325	206 274 343 446 515 618 680 865 1051 1236





Boilers Water Heaters (Type H) (Type WH) 302C-902C 992C-2342C 302C-902C 992C-2342C

ASME, National Board Registered, 160 PSI	H Stamp HLW Stamp	N/A	N/A	N/A	N/A
Heat Exchanger Tubes	Copper Cupro Nickel	• •	• •	N/A	N/A
Heat Exchanger Tubes Headers Pressure Relief Valve	Bronze Cast Iron	0	0	0	0
Pressure Relief Valve	30, 45 & 75 PSI Available	0	0	N/A	N/A
	60 PSI	•		N/A	N/A
	125 PSI	0	0		
Tamana watuwa 9 Duana wa Causa	150 PSI	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Temperature & Pressure Gauge Pump – 120V, Single-Phase		0	0	0	0
120V Parray Crimilia	186+b 1201//241/ Transfermer				
120V Power Supply	With 120V/24V Transformer	•	•	•	•
Pump Time Delay	Single Phase			•	-
Diagnostic Display Central Temperature Controller	15-Event Memory Versa IC	•		•	
Pump Time Delay Diagnostic Display Central Temperature Controller	TempTracker Mod+ Hybrid	0	0	0	0
Hot Surface Ignition System	3-try	•	•	•	•
W. L. G. D. L. C. L. L.	1-try	<u> </u>	0	0	0
High Gas Pressure Switch		0	0	0	0
Low Gas Pressure Switch		<u> </u>	•	<u> </u>	•
Blocked Vent and Air Pressure Switches	Manual Deset Fixed	•	•	•	
High Limit Switch	Manual Reset, Fixed Manual Reset, Adjustable				
	Automatic Reset, Adjustable	Ö	Ö	Ö	Ö
Low Water Cut-Off, 24V	With manual reset and test button	0	0	0	0
Flow Switch		•	•	•	•
Firing Mode	2-Stage (H3, WH3)	•	N/A	•	N/A
, and the second	3-Stage (H8, WH8)	N/A	(1)	N/A	(1)
Firing Mode	4-Stage (H9, WH9)	N/A	(2)	N/A	(2)
4" WC Supply Pressure (G-20)	Natural Gas Only	0	(3)	0	(3)
TruSeal Direct Vent System		0	0	0	0
Air Filter, Room Air		•	•		•
Air Filter, Ducted Outside Air		0	0	0	0
Efficiency	84% (Category I or III)	•	•	N/A	N/A
	Up to 85% (Category II or IV)	N/A	N/A	•	•
Combustible Floor Rated				0	0
Alarm System	0.1	0	0	0	0
Vent Terminal	Outdoor and Through-the-Wall	0	0	0	0
Right-Hand Water Connections		0	0	0	0
CSD-1/GE GAP Control System		(4)	0	(4)	0
Low NOx Compliance	Less than 20ppm		(5)		(5)
Cold Water Start	Cold water protection systems	0	0	0	0
Cold Water Run	Cold water protection systems	0	0		

Notes: 1 Standard on 992C. 2 Standard on Models 1262C-2342C. 3 Option not available on Model 2002C.

4 Not applicable for Models 302C and 402C; Optional for Models 502C-902C. 5 Standard on Models 992C-2002C; Models 2072C and 2342C require site testing and have different emissions requirements (Consult factory).









