

Sealed Combustion Boilers & Water Heaters



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:
 - 83.1% 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 on H models;
 Cupro-nickel standard on WH models, optional for H models
- 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 302C-2342C)
 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.

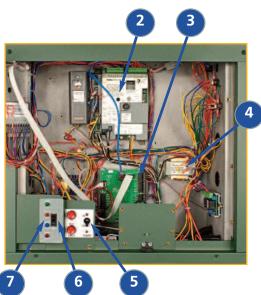
Cold Water Run

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.			MBTUH	Output*			Dimer	nsions (ir	ı.)			Operating	
	Dwg. pg. 5	Hi Delta Model	MBTUH Input*	Type H 84%	Type WH 83.1%	A Width	В	G NPT	H NPT	K Flue Ø	T Ø	W	Weight (lbs.)	Amps‡
		302C	300	252	249	36	18	3/4	2	5	6	14-3/4	380	6
		402C	399	335	331	43	21-1/2	3/4	2	6	6	18-1/2	445	6
	1	502C	500	420	415	50	25	1-1/4	2	6	6	22	545	6
E	' '	652C	650	546	540	60-1/2	30-1/4	1-1/4	2	8	6	27-1/4	590	6
BOILER		752C	750	630	623	67-1/2	33-3/4	1-1/4	2	8	6	30-3/4	675	6
B		902C	900	756	748	78	39	1-1/4	2	8	6	36	740	7
		992C	990	832	823	57-1/8	28-9/16	2	2-1/2	10	10	16-13/16	900	<12
		1262C	1260	1058	1047	68-1/2	34-1/4	2	2-1/2	12	10	20-9/16	1010	<12
		1532C	1530	1285	1271	79-7/8	39-15/16	2	2-1/2	12	10	24-3/8	1225	<12
	2	1802C	1800	1512	1495	91-1/8	45-9/16	2	2-1/2	14	10	28-1/8	1350	<12
	-	2002C ^a	1999	1679	1661	102-1/2	51-1/4	2	2-1/2	14	10	31-15/16	1450	<12
	_	2072C	2070	1739	1720	102-1/2	51-1/4	2	2-1/2	14	10	31-15/16	1450	<12
		2342C	2340	1966	1944	113-7/8	56-15/16	2	2-1/2	16	10	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.)

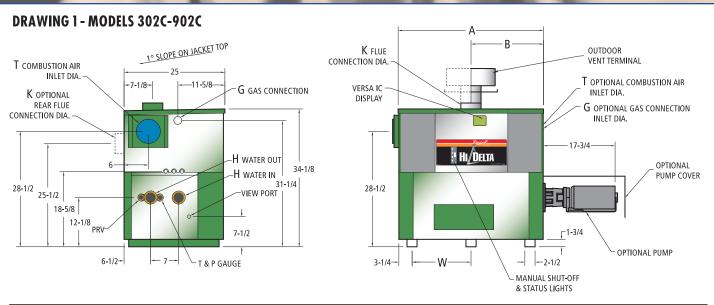
a Natural gas only. Not available for propane.

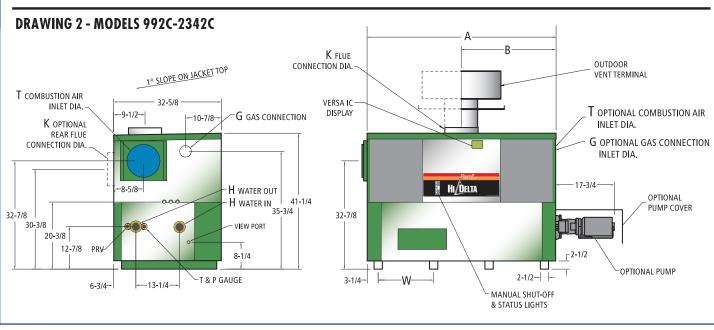
	Boiler	Ind	oor	Out	door
	Side	Minimum	Service	Minimum	Service
CLEARANCES	Floor*	0"	0"	0"	0"
Ž	Rear	1"	6"	12"	24"
₹.	Water side	12"	24"	36"	36"
E	Other side	1″	24"	36"	36"
Ü	Тор	1″	6"	Unobstructed	Unobstructed
	Front	Open	24"	Open	24"
	Vent	2"	2"	N/A	N/A

^{*} Do not install on carpeting.

				Water H	lardness			
	Hi Delta Model	S	oft	Med	dium	Hard		
		HP	Amps	HP	Amps	HP	Amps	
ĭ	302C	1/8	1.3	1/4	5.7	1/2	7	
HOT WATER SUPPLY	402C	1/8	1.3	1/4	5.7	1/2	7	
S S	502C	1/8	1.3	1/4	5.7	1/2	7	
阊	652C	1/8	1.3	1/4	5.7	1/2	7	
Š	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	
PUMP	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			Pressure Drops							
	Hi Delta Model	Mi	nimum Fl	OW	Ma	ximum F	low	10°	F ΔT	20°F	: ΔΤ	30°	F ΔT	39°I	ΔΤ
	Model	GPM	$\Delta P \; Ft$	Δ T $^{\circ}$ F	GPM	$\Delta P \; Ft$	Δ T $^{\circ}$ F	GPM	$\Delta P \; Ft$	GPM	Δ P Ft	GPM	$\Delta P \; Ft$	GPM	ΔP Ft
	302C	20	<1.0	25	90	9.8	6	50	3.3	25	<1.0	L	ess than Mi	nimum Flov	v
Î	402C	20	<1.0	34	90	10.0	7	67	5.8	34	1.4	22	<1.0		
ш	502C	21	<1.0	39	90	10.4	9	84	9.1	42	2.3	28	1.1	21	<1.0
ΥP	652C	27	1.1	39	90	10.8	12			55	4.1	36	1.8	27	1.1
E	752C	32	1.5	39	90	11.3	14			63	5.7	42	2.6	32	1.5
≿	902C	38	2.2	39	90	11.7	17			76	8.3	50	3.8	38	2.2
FICIENCY	992C	42	1.3	39	132	13.1	13			83	5.2	55	2.3	42	1.3
#	1262C	53	2.4	39	132	14.8	16			106	9.6	71	4.3	53	2.4
重	1532C	64	4.0	39	132	16.5	19		_	129	15.7	86	7.1	64	4.0
出	1802C	76	6.0	39	132	18.3	23				_	101	10.7	76	6.0
84%	2002C	84	7.9	39	132	19.0	25		Exceeds Ma:	ximum Flow		112	13.8	84	7.9
84	2072C	87	8.5	39	132	19.0	26		LACCEUS IVIU	MINIMINI I IOW	_	116	14.8	87	8.5
	2342C	98	12.1	39	132	21.4	30					131	21.1	98	12.1

							Water F	lardness						
	Hi Delta Model		So	oft			Med	dium			На	ard		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*	SIEC (III13)
(TYPE	302C	13	40	2.0	5.1	10	50	3.0	7.7	7	74	6.6	16.3	2"
\in	402C	17	40	2.0	5.1	13	52	3.4	8.4	9	74	6.8	16.4	2"
	502C	21	40	2.1	5.2	16	52	3.5	8.6	11	73	6.9	16.3	2"
$\overline{\mathbf{c}}$	652C	27	40	2.2	5.3	21	52	3.7	8.7	15	72	7.0	16.2	2"
EFFICIENCY	752C	28	45	3.0	6.8	23	55	4.4	9.9	14	90	11.3	25.1	2"
$\overline{\Box}$	902C	28	54	4.3	9.7	21	73	7.8	17.2	17	90	11.7	25.5	2"
표	992C	28	60	2.7	5.2	17	98	7.3	13.3	13	132	13.1	23.6	2-1/2"
	1262C	28	75	4.8	8.5	18	115	11.3	19.4	16	132	14.8	25.3	2-1/2"
1%	1532C	30	86	7.1	11.9	21	120	13.7	22.5	19	132	16.5	27.0	2-1/2"
83.1	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	21.6	25	132	19.0	29.5	25	132	19.0	29.5	2-1/2"
	2072C	30	117	15.1	23.4	26	132	19.0	29.5	26	132	19.0	29.5	2-1/2"
	2342C	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 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.

			OF.			- 10						118	8.0				
								Recover	y Rates	(GPH)							
	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
Î	402C	399	4063	2031	1354	1016	813	677	580	508	451	406	369	339	313	290	271
ᄣ	502C	500	5091	2545	1697	1273	1018	848	727	636	566	509	463	424	392	364	339
(TYPE	652C	650	6618	3309	2206	1655	1324	1103	945	827	735	662	602	552	509	473	441
=	752C	750	7636	3818	2545	1909	1527	1273	1091	955	848	764	694	636	587	545	509
I ≿	902C	900	9164	4582	3055	2291	1833	1527	1309	1145	1018	916	833	764	705	655	611
Ĭž	992C	990	10080	5040	3360	2520	2016	1680	1440	1260	1120	1008	916	840	775	720	672
FFICIENCY	_1262C	1260	12829	6415	4276	3207	2566	2138	1833	1604	1425	1283	1166	1069	987	916	855
▋Ĕ	1532C	1530	15578	7789	5193	3895	3116	2596	2225	1947	1731	1558	1416	1298	1198	1113	1039
ш	_1802C	1800	18327	9164	6109	4582	3665	3055	2618	2291	2036	1833	1666	1527	1410	1309	1222
84%	2002C	1999	20353	10177	6784	5088	4071	3392	2908	2544	2261	2035	1850	1696	1566	1454	1357
84	_2072C	2070	21076	10538	7025	5269	4215	3513	3011	2635	2342	2108	1916	1756	1621	1505	1405
	2342C	2340	23825	11913	7942	5956	4765	3971	3404	2978	2647	2383	2166	1985	1833	1702	1588
	Recovery Rates (GPH)																
								Recover	y Rates	(GPH)							
	Hi Delta	MRTLIH						Recover	<u>, </u>	· · ·	se (°F)						
(H)	Hi Delta Model		10	20	20	40	ΓO		Temper	ature Ri		100	110	120	120	140	150
WH)	Hi Delta Model	MBTUH Input	10	20	30	40	50	Recover 60	<u>, </u>	· · ·	se (°F) 90	100	110	120	130	140	150
144			10	20	30	40 755	50	60 504	Temper	ature Ri		100	110 275	120 252	130	140 216	150 201
144	Model	300 399			1007 1340		604 804	60 504 670	Temper 70 432 574	80 378 502	90	302 402	275 365		232 309		201 268
(TYPE	Model 302C	Input 300	3022	1511	1007	755	604	60 504	Temper 70 432 574 719	378 502 630	90 336 447 560	302 402 504	275 365 458	252	232	216	201
(TYPE	302C 402C 502C 652C	300 399 500 650	3022 4019 5036 6547	1511 2010 2518 3274	1007 1340 1679 2182	755 1005 1259 1637	604 804 1007 1309	504 670 839 1091	Temper 70 432 574 719 935	378 502 630 818	90 336 447 560 727	302 402 504 655	275 365 458 595	252 335 420 546	232 309 387 504	216 287 360 468	201 268 336 436
(TYPE	302C 402C 502C 652C 752C	300 399 500 650 750	3022 4019 5036 6547 7555	1511 2010 2518 3274 3777	1007 1340 1679 2182 2518	755 1005 1259 1637 1889	604 804 1007 1309 1511	504 670 839 1091 1259	Temper 70 432 574 719 935 1079	378 502 630 818 944	90 336 447 560 727 839	302 402 504 655 755	275 365 458 595 687	252 335 420 546 630	232 309 387 504 581	216 287 360 468 540	201 268 336 436 504
(TYPE	302C 402C 502C 652C 752C 902C	300 399 500 650 750 900	3022 4019 5036 6547 7555 9065	1511 2010 2518 3274 3777 4533	1007 1340 1679 2182 2518 3022	755 1005 1259 1637 1889 2266	604 804 1007 1309 1511 1813	504 670 839 1091 1259 1511	Temper 70 432 574 719 935 1079 1295	378 502 630 818 944 1133	90 336 447 560 727 839 1007	302 402 504 655 755 907	275 365 458 595 687 824	252 335 420 546 630 755	232 309 387 504 581 697	216 287 360 468 540 648	201 268 336 436 504 604
FFICIENCY (TYPE	302C 402C 502C 652C 752C 902C 992C	300 399 500 650 750 900 990	3022 4019 5036 6547 7555 9065 9972	1511 2010 2518 3274 3777 4533 4986	1007 1340 1679 2182 2518 3022 3324	755 1005 1259 1637 1889 2266 2493	604 804 1007 1309 1511 1813 1994	504 670 839 1091 1259 1511 1662	Temper 70 432 574 719 935 1079 1295 1425	378 502 630 818 944 1133 1247	90 336 447 560 727 839 1007 1108	302 402 504 655 755 907 997	275 365 458 595 687 824 907	252 335 420 546 630 755 831	232 309 387 504 581 697 767	216 287 360 468 540 648 712	201 268 336 436 504 604 665
EFFICIENCY (TYPE	302C 402C 502C 652C 752C 902C 992C 1262C	300 399 500 650 750 900 990 1260	3022 4019 5036 6547 7555 9065 9972 12692	1511 2010 2518 3274 3777 4533 4986 6346	1007 1340 1679 2182 2518 3022 3324 4231	755 1005 1259 1637 1889 2266 2493 3173	604 804 1007 1309 1511 1813 1994 2538	504 670 839 1091 1259 1511 1662 2115	Temper 70 432 574 719 935 1079 1295 1425 1813	378 502 630 818 944 1133 1247 1586	90 336 447 560 727 839 1007 1108 1410	302 402 504 655 755 907 997 1269	275 365 458 595 687 824 907 1154	252 335 420 546 630 755 831 1058	232 309 387 504 581 697 767 976	216 287 360 468 540 648 712 907	201 268 336 436 504 604 665 846
% EFFICIENCY (TYPE	Model 302C 402C 502C 652C 752C 902C 992C 1262C 1532C	300 399 500 650 750 900 990 1260 1530	3022 4019 5036 6547 7555 9065 9972 12692 15411	1511 2010 2518 3274 3777 4533 4986 6346 7706	1007 1340 1679 2182 2518 3022 3324 4231 5137	755 1005 1259 1637 1889 2266 2493 3173 3853	604 804 1007 1309 1511 1813 1994 2538 3082	504 670 839 1091 1259 1511 1662 2115 2569	Temper 70 432 574 719 935 1079 1295 1425 1813 2202	378 502 630 818 944 1133 1247 1586 1926	90 336 447 560 727 839 1007 1108 1410 1712	302 402 504 655 755 907 997 1269 1541	275 365 458 595 687 824 907 1154 1401	252 335 420 546 630 755 831 1058 1284	232 309 387 504 581 697 767 976 1185	216 287 360 468 540 648 712 907 1101	201 268 336 436 504 604 665 846
% EFFICIENCY (TYPE	Model 302C 402C 502C 652C 752C 902C 992C 1262C 1532C 1802C	300 399 500 650 750 900 990 1260 1530 1800	3022 4019 5036 6547 7555 9065 9972 12692 15411 18131	1511 2010 2518 3274 3777 4533 4986 6346 7706 9065	1007 1340 1679 2182 2518 3022 3324 4231 5137 6044	755 1005 1259 1637 1889 2266 2493 3173 3853 4533	604 804 1007 1309 1511 1813 1994 2538 3082 3626	504 670 839 1091 1259 1511 1662 2115 2569 3022	Temper 70 432 574 719 935 1079 1295 1425 1813 2202 2590	378 502 630 818 944 1133 1247 1586 1926 2266	90 336 447 560 727 839 1007 1108 1410 1712 2015	302 402 504 655 755 907 997 1269 1541 1813	275 365 458 595 687 824 907 1154 1401 1648	252 335 420 546 630 755 831 1058 1284 1511	232 309 387 504 581 697 767 976 1185 1395	216 287 360 468 540 648 712 907 1101 1295	201 268 336 436 504 604 665 846 1027 1209
EFFICIENCY (TYPE	Model 302C 402C 502C 652C 752C 902C 992C 1262C 1532C 1802C 2002C	300 399 500 650 750 900 990 1260 1530 1800 1999	3022 4019 5036 6547 7555 9065 9972 12692 15411 18131 20135	1511 2010 2518 3274 3777 4533 4986 6346 7706 9065 10068	1007 1340 1679 2182 2518 3022 3324 4231 5137 6044 6712	755 1005 1259 1637 1889 2266 2493 3173 3853 4533 5034	604 804 1007 1309 1511 1813 1994 2538 3082 3626 4027	504 670 839 1091 1259 1511 1662 2115 2569 3022 3356	Temper 70 432 574 719 935 1079 1295 1425 1813 2202 2590 2876	378 502 630 818 944 1133 1247 1586 1926 2266 2517	90 336 447 560 727 839 1007 1108 1410 1712 2015 2237	302 402 504 655 755 907 997 1269 1541 1813 2014	275 365 458 595 687 824 907 1154 1401 1648 1830	252 335 420 546 630 755 831 1058 1284 1511 1678	232 309 387 504 581 697 767 976 1185 1395	216 287 360 468 540 648 712 907 1101 1295 1438	201 268 336 436 504 604 665 846 1027 1209 1342
% EFFICIENCY (TYPE	Model 302C 402C 502C 652C 752C 902C 992C 1262C 1532C 1802C	300 399 500 650 750 900 990 1260 1530 1800	3022 4019 5036 6547 7555 9065 9972 12692 15411 18131	1511 2010 2518 3274 3777 4533 4986 6346 7706 9065	1007 1340 1679 2182 2518 3022 3324 4231 5137 6044	755 1005 1259 1637 1889 2266 2493 3173 3853 4533	604 804 1007 1309 1511 1813 1994 2538 3082 3626	504 670 839 1091 1259 1511 1662 2115 2569 3022	Temper 70 432 574 719 935 1079 1295 1425 1813 2202 2590	378 502 630 818 944 1133 1247 1586 1926 2266	90 336 447 560 727 839 1007 1108 1410 1712 2015	302 402 504 655 755 907 997 1269 1541 1813	275 365 458 595 687 824 907 1154 1401 1648	252 335 420 546 630 755 831 1058 1284 1511	232 309 387 504 581 697 767 976 1185 1395	216 287 360 468 540 648 712 907 1101 1295	201 268 336 436 504 604 665 846 1027 1209





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	<u> </u>	0	0
Pressure Relief Valve	30, 45 & 75 PSI Available	0	0	N/A	N/A
	60 PSI	•		N/A	N/A
	125 PSI	O	0		
Towns and the Control	150 PSI	0	<u> </u>	<u> </u>	0
Temperature & Pressure Gauge Pump – 120V, Single-Phase			0	<u> </u>	0
runip – 120v, single-rhase			0	0	0
120V Power Supply	With 120V/24V Transformer	•	•		•
Pump Time Delay	Single Phase	•			
Diagnostic Display Central	15-Event Memory	•			•
Pump Time Delay Diagnostic Display Central Temperature Controller	Versa IC TempTracker Mod+ Hybrid	0	• •	0	0
Hot Surface Ignition System	3-try	•	•	•	•
High Cos Bussesses Codesh	1-try	0	0	0	0
High Gas Pressure Switch Low Gas Pressure Switch		0	0	0	<u> </u>
Blocked Vent and Air Pressure Switches		<u> </u>	•	<u> </u>	•
High Limit Switch	Manual Reset, Fixed				
riigii Liitiit Switcii	Manual Reset, Adjustable				
	Automatic Reset, Adjustable	0	0	0	0
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
geuc	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)	•	•	N/A	N/A
	83.1% (Category I)	N/A	N/A	•	•
Combustible Floor Rated		•	•		•
Alarm System		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	3000	(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	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).









