



PRODUCT SELECTION GUIDE



Quality
Value &
Service

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Velocity Boiler Works

is a leader in Hydronic Heating Technologies.

Velocity

delivers Residential and Commercial Oil and Gas-Fired Cast Iron Boilers, Stainless Steel Condensing Boilers, Indirect Water Heaters, and Warm Air Oil Furnaces with the guiding principles of offering quality products with outstanding customer service at competitive pricing.

Product Notes:

The NET AHRI Steam Ratings shown are based on a Piping and Pickup Allowance of 1.333.

The NET AHRI Water Ratings shown are based on a Piping and Pickup Allowance of 1.15.

The Manufacturer should be consulted before selecting a boiler for installations having unusual Piping Pickup requirements, such as Intermittent System Operation, Extensive Piping Systems, etc.

Not all models are suitable for installation with all fuels or altitudes. Refer to Product Specific Literature or Manual for complete details.



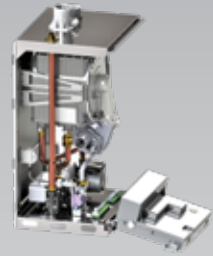


PHANTOM[®] COMBI II

**Condensing - Direct Vent - Stainless Steel
Gas-Fired – Adaptive Combustion
Hot Water - Water Tube**

- 95% AFUE with 10:1 turndown ratio
- Two Sizes
- Domestic Hot Water - Up to 3.7 GPM at 70 degree rise
- Low Loss Header Included
- Field Convertible to LP

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- Easy access to key components
- Fully removable front & side panels
- Drop down control center

RESIDENTIAL HEATING

WATER

SPACE HEATING RATINGS				AHRI CERTIFIED ¹		DIMENSIONS			DOMESTIC HOT WATER (DHW) RATINGS ¹					SHIPPING WEIGHT (LBS)	
MODEL	INPUT ² (MBH)		DOE HEATING CAPACITY (MBH)	AHRI NET RATING (MBH)	ENERGY STAR AFUE %	DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)	INPUT ² (MBH)		HOT WATER DRAW LIMITS GPM				
	MIN	MAX							MIN	MAX	MAX				
										70°F RISE	77°F RISE	90°F RISE	MIN ³		
PHTM2136C	13.6	120	112	97	95.0	16.3	17.8	29.8	13.6	136	3.7	3.4	2.9	0.5	112
PHTM2200C	20	150	141	123	95.0	20.4	17.8	29.8	20	200	5.2	4.7	4.0	0.5	135

¹ DHW ratings are not AHRI certified.

² Input and DHW draw limits for elevations up to 2,000 ft. with min vent length. See Table 3-3 in installation manual for derate at max vent length.

³ Min DHW flow rate required through boiler to initiate DHW demand. Higher flow rate through fixture may be required due to mixing at tempering valve and/or fixture itself.



PHANTOM II

**Condensing - Direct Vent - Stainless Steel
Gas-Fired – Adaptive Combustion
Hot Water - Water Tube**

- 95% AFUE with 10:1 Turndown
- Four Sizes - 80, 120, 150, 180 MBH input
- 2" venting standard
- 5-year parts warranty
- Field convertible to LP

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- Easy access to key components
- Fully removable front & side panels
- Drop down control center

CONDENSING

GAS

SPACE HEATING RATINGS				AHRI CERTIFIED ¹		DIMENSIONS AND CONNECTIONS					SHIPPING WEIGHT (LBS)
MODEL	INPUT ¹ (MBH)		DOE HEATING CAPACITY (MBH)	AHRI NET RATING (MBH)	ENERGY STAR AFUE %	DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)	SPACE HEATING WATER SWEAT, (IN)	GAS NPT	
	MIN	MAX									
PHTM2080H	8 ²	80	75	65	95.0	16.3	17.8	29.8	1	1/2	107
PHTM2120H	13.6	120	112	97	95.0	16.3	17.8	29.8	1	1/2	112
PHTM2150H	20	150	141	123	95.0	20.4	17.8	29.8	1	1/2	132
PHTM2180H	20	180	169	147	95.0	20.4	17.8	29.8	1	1/2	132

¹ Input for elevations up to 2,000 ft. with min vent length. See Table 3-3 for vent diameter connection sizes and derate at max vent length.

² For altitudes above 2,000 ft., PHNTM2080H minimum input increased to 10 MBH.



PHANTOM-X™

**Condensing - Direct Vent - Stainless Steel
Gas-Fired - Hot Water - Water Tube**

- Two Sizes: 210-285
- 5:1 turndown ratio
- Up to 95% AFUE (PHNTM 210-285)
- Stackable for floor space savings
- Natural gas and LP applications - consult manual

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SPACE HEATING RATINGS										
MODEL	MAX. INPUT (MBH)	MIN. INPUT (MBH)	DOE HEATING CAPACITY (MBH)	AHRI NET RATING (MBH)	ENERGY STAR AFUE %	W (IN)	D (IN)	H (IN)	VENT DIAMETER (IN)	APPROX. SHIPPING WEIGHT (LBS)
PHNTM210	210	42	194	169	95.0	16-11/16	23-15/16	32-3/16	3	206
PHNTM285	285	57	262	228	95.0	16-11/16	21-13/16	43-7/16	3	256



RAPTOR FIRETUBE

**Condensing - Direct Vent - Gas-Fired
Stainless Steel - Fire Tube Design - Hot Water**

- Up to 96% AFUE
- 10:1 turndown ratio
- Five sizes: 85-270 MBH heat only
- 5-year parts warranty
- Field convertible to LP gas with optional kit

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SPACE HEATING RATINGS										
MODEL	INPUT (MBH) MIN-MAX	DOE HEATING CAPACITY (MBH)	AHRI NET RATING (MBH)	ENERGY STAR AFUE %	W (IN)	D (IN)	H (IN)	VENT DIAMETER (IN)	APPROX. SHIPPING WEIGHT (LBS)	
RPTR085HB	8.5 - 85	79	69	96.0	19-13/16	20	33-5/16	2 or 3	140	
RPTR110HB	11 - 110	103	90	96.0	19-13/16	20	33-5/16	2 or 3	145	
RPTR155HB	15.5 - 155	145	126	95.0	19-13/16	20	33-5/16	3	160	
RPTR205HB	20.5 - 205	189	164	95.0	19-13/16	21	33-5/16	3	175	
RPTR270HB	27 - 270	252	219	95.0	19-13/16	21	33-5/16	3	185	



ARUBA

(AWR SERIES)

Cast Iron - Gas-Fired - Hot Water Atmospheric Vent

- 84.0% AFUE
- Eight sizes: 38-280 MBH
- Natural gas & LP models available
- Boiler easily field convertible to left side piping
- Controls located inside the jacket and easily accessible from the front of boiler
- LWCO Standard

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SPACE HEATING RATINGS		NATURAL GAS & LP GAS			AFUE %	NO. OF SECS.	W (IN)	D (IN)	H (IN)	VENT DIAM. (IN)	APPROX. SHIPPING WEIGHT (LBS)
MODEL	INPUT (MBH)	HEATING CAPACITY (MBH)	NET AHRI WATER RATING (MBH)								
AWR038B	38	32	28	84.0	2	9-3/4	31-1/2	39-1/2	4	234	
AWR070B	70	59	51	84.0	3	12-7/8	31-1/2	39-1/2	4	284	
AWR105B	105	88	77	84.0	4	15-3/8	31-1/2	39-1/2	5	334	
AWR140B	140	117	102	84.0	5	18-1/2	31-1/2	39-1/2	6	384	
AWR175B	175	146	127	84.0	6	21-1/2	31-3/4	39-1/2	7	434	
AWR210B	210	176	153	84.0	7	24-5/8	33-1/2	39-1/2	7	484	
AWR245B	245	205	178	84.0	8	27-5/8	33-1/2	39-1/2	8	533	
AWR280B	280	234	203	84.0	9	30-3/4	33-1/2	39-1/2	8	583	





BALI 2 Cast Iron - Gas-Fired Hot Water - Power Vent (BWF SERIES)

- Cast iron heat exchanger and stainless steel burners
- Integral fan for sidewall venting
- Six sizes available in natural or LP gas
- Limited lifetime warranty
- LWCO standard equipment
- Optional direct vent kit available
- Boiler easily field convertible to left side piping

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BWF SPACE HEATING RATINGS						AHRI CERTIFIED www.ahridirectory.org	# OF SECTIONS	WIDTH		CONNECTION SIZE		WATER CONTENT (GAL)	APPROX. SHIPPING WEIGHT (LBS)	OPTIONAL DIRECT VENT KIT (PN)
MODEL	FUEL	INPUT	HEATING CAPACITY	NET AHRI RATING, WATER	AFUE			GAS	VENT					
		MBH	MBH	MBH	%					(INCH)	(NPT)	(INCH)		
BWF070BN	NAT. GAS	70	60	52	85.0	3	12-3/4	1/2	3	2	260	110019-03		
BWF105BN	NAT. GAS	105	90	78	85.0	4	15-1/2	1/2	3	3	310	110019-04		
BWF140BN	NAT. GAS	140	120	104	85.0	5	18-1/2	1/2	3	4	360	110019-05		
BWF175BN	NAT. GAS	175	150	130	85.0	6	21-1/2	1/2	3	5	415	110019-06		
BWF210BN	NAT. GAS	210	179	156	85.0	7	24-3/4	3/4	3	6	470	110019-07		
BWF245BN	NAT. GAS	245	208	181	84.0	8	27-3/4	3/4	4	7	525	110019-08		
BWF063BL	PROPANE	63	54	47	85.0	3	12-3/4	1/2	3	2	260	110019-03		
BWF094BL	PROPANE	94.5	81	70	85.0	4	15-1/2	1/2	3	3	310	110019-04		
BWF126BL	PROPANE	126	108	94	85.0	5	18-1/2	1/2	3	4	360	110019-05		
BWF157BL	PROPANE	157.5	135	117	85.0	6	21-1/2	1/2	3	5	415	110019-06		
BWF189BL	PROPANE	189	161	140	85.0	7	24-3/4	3/4	3	6	470	110019-07		
BWF220BL	PROPANE	220.5	187	163	84.0	8	27-3/4	3/4	4	7	525	110019-08		

Direct Vent Kit is included with high altitude models.

Quality
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BERMUDA Cast Iron - Gas-Fired Atmospheric Vent

(BSI SERIES)



- Up to 82.2% AFUE
- Seven sizes 69-276 MBH
- Natural gas & LP models available
- Fully assembled
- Near boiler piping kit available separately for ease of installation

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BSI SPACE HEATING RATINGS NATURAL AND LP GAS						NO. OF SEC.	DIMENSIONS (IN.)				SHIPPING WEIGHT (LBS)
MODEL	INPUT (MBH)	HEATING CAPACITY (MBH)	AHRI NET RATING STEAM (MBH)		AFUE %		W (in)	D (in)	H (in)	VENT DIAMETER (in)	
			SQ. FT.	MBH							
BSI069	69	57	179	43	82.0	3	12-3/4	28	40-7/16	4	365
BSI103	103	85	267	64	82.0	4	16	28	40-7/16	5	432
BSI138	138	113	354	85	82.0	5	19-1/4	28	40-7/16	6	504
BSI172	172	142	446	107	82.1	6	22-1/2	28	40-7/16	6	589
BSI207	207	171	533	128	82.1	7	25-3/4	30	40-7/16	7	669
BSI241	241	199	621	149	82.2	8	29	30	40-7/16	7	745
BSI276	276	229	717	172	82.2	9	32-1/4	30	40-7/16	8	826

1. Not available for altitudes above 2000ft.

RESIDENTIAL HEATING

STEAM

NON-CONDENSING

GAS



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TOBAGO Cast Iron - Oil-Fired - Water Atmospheric Vent (TWB SERIES)

- ENERGY STAR® rated with efficiencies up to 87.3%
- Three physical sizes with firing rates from 0.65-1.90 GPH
- Beckett AFG burner standard; Carlin & Riello burners optional on most sizes
- Burner packaged separately for easier handling
- Optional front-mounted tankless coil for domestic hot water supply
- Hydrolevel Hydrostat with low water cut off



TWB SPACE HEATING RATINGS				AHRI CERTIFIED			DIMENSIONS				
MODEL	BURNER INPUT ¹	HEATING CAPACITY	AHRI NET RATING WATER	ENERGY STAR AFUE %	NO. OF SECS.	TANKLESS HEATER ²	D	W	H	VENT DIAMETER	SHIPPING WEIGHT
	(GAL/HR)	(MBH)	(MBH)			(GPM)	(in.)	(in.)	(in.)	(in.)	(LBS)
TWB065	0.65	80	70	87.3*	3	2.75	17-3/8	20-5/8	31-5/8	6	560
TWB075	0.75	92	80	87.0*	3	3.00	17-3/8	20-5/8	31-5/8	6	560
TWB100	1.00	122	106	86.3	3	3.25	17-3/8	20-5/8	31-5/8	6	560
TWB125	1.20	148	129	87.0*	4	3.75	22-3/8	20-5/8	31-5/8	7	680
TWB150	1.50	182	158	86.0	4	4.00	22-3/8	20-5/8	31-5/8	7	680
TWB175	1.75	214	186	86.4	5	4.25	27-3/8	20-5/8	31-5/8	8	800
TWB200	1.90	231	201	86.1	5	4.75	27-3/8	20-5/8	31-5/8	8	800

Notes: 1. Burner Capacity Rating, GPH is based on #2 oil with a Gross Heating Value equal to 140000 BTU/Gal.

2. Tankless heater ratings based on 40F inlet water, 140F outlet water, and 190F boiler water. Ratings are also based on 5 minute intermittent draws with 10 minutes between draws.



FREEPORT II Cast Iron - Oil-Fired - Hot Water Atmospheric Vent (FWZ SERIES)

- Six sizes: 0.60-1.60 GPH
- Swing door with burner disconnect plug for easy access to all heating surfaces through the front
- Beckett AFG burner standard; Carlin & Riello burners optional on most sizes

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SPACE HEATING RATINGS				AHRI CERTIFIED							
MODEL	BURNER INPUT ¹ (GPH)	HEATING CAPACITY (MBH)	NET AHRI WATER RATING (MBH)	ENERGY STAR AFUE %	NO. OF SECS.	W (IN)	D (IN)	H (IN)	VENT DIAM. (IN)	APPROX. SHIPPING WEIGHT (LBS)	
FWZ060	0.60	73	63	86.0	2	20-3/4	16-1/4	31-1/2	5	430	
FWZ080	0.80	97	84	86.3	2	20-3/4	16-1/4	31-1/2	5	430	
FWZ081	0.80	99	86	87.0*	3	20-3/4	22-1/4	31-1/2	6	545	
FWZ100	1.00	123	107	87.0*	3	20-3/4	22-1/4	31-1/2	6	545	
FWZ130	1.30	160	139	87.0*	4	20-3/4	28-1/4	31-1/2	6	658	
FWZ160	1.60	197	171	87.0*	5	20-3/4	34-1/4	31-1/2	7	771	

1. Burner Capacity Rating, GPH is based on #2 oil with Gross Heating Value equal to 140000 BTU/Gal

* ENERGY STAR® certified product



FREEPORT II (FSZ SERIES)

Cast Iron - Oil-Fired - Steam
Atmospheric Vent

- Up to 86.0% AFUE
- Four sizes: 0.80-1.60 GPH
- Optional side-mounted tankless coil for domestic hot water
- Near boiler piping kit available separately for ease of installation

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SPACE HEATING RATINGS		AHRI CERTIFIED											
MODEL	BURNER INPUT ² (GPH)	HEATING CAPACITY (MBH)	NET AHRI STEAM RATING		AFUE %	NO. OF SECS.	W (IN)	D (IN)	H (IN)	VENT DIAMETER (IN)	TANKLESS HEATER (GPM) ¹	APPROX. SHIPPING WEIGHT (LBS)	
			(MBH)	(SQ. FT.)									
FSZ080	0.80	97	73	303	85.7	3	22-1/2	22-1/4	38-1/2	6	3.00	607	
FSZ100	1.00	122	92	381	86.0	3	22-1/2	22-1/4	38-1/2	6	3.25	607	
FSZ130	1.30	158	119	494	86.0	4	22-1/2	28-1/4	38-1/2	6	3.50	744	
FSZ160	1.60	195	146	610	85.9	5	22-1/2	34-1/4	38-1/2	7	4.00	881	

1. Tankless heater ratings based on an average temperature rise of 90°F with 200°F boiler water temperature and 40°F heater inlet temperature (intermittent draw).
2. Burner Capacity Rating, GPH is based on #2 oil with Gross Heating Value equal to 140000 BTU/Gal



KINGSTON (KSB SERIES)

Cast Iron - Oil-Fired - Steam
Atmospheric Vent

- Efficiencies up to 86.4% AFUE
- Three physical sizes with firing rates from 0.65-1.90 GPH
- Optional side-mounted tankless coil for domestic hot water
- Beckett AFG burner standard; Carlin & Riello burners optional on most sizes
- Burner packaged separately for easier handling
- Near boiler piping kit available separately for ease of installation

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KSB SPACE HEATING RATINGS		AHRI CERTIFIED											
MODEL	BURNER INPUT ¹ (GAL/HR)	HEATING CAPACITY (MBH)	AHRI NET RATING STEAM		AFUE %	NO. OF SECS.	TANKLESS HEATER ² (GPM)	DIMENSIONS				SHIPPING WEIGHT (LBS)	
			(Sq. Ft.)	(MBH)				D (in.)	W (in.)	H (in.)	VENT DIAMETER (in.)		
KSB065	0.65	79	246	59	85.1	3	2.25	17-3/8	24-5/8	31-5/8	6	570	
KSB075	0.75	91	283	68	85.7	3	2.25	17-3/8	24-5/8	31-5/8	6	570	
KSB100	1.00	121	379	91	85.0	3	2.50	17-3/8	24-5/8	31-5/8	6	570	
KSB125	1.20	147	458	110	86.4	4	2.75	22-3/8	24-5/8	31-5/8	7	690	
KSB150	1.50	181	567	136	85.1	4	3.00	22-3/8	24-5/8	31-5/8	7	690	
KSB175	1.75	212	663	159	85.6	5	3.25	27-3/8	24-5/8	31-5/8	8	810	
KSB200	1.90	230	721	173	85.3	5	3.50	27-3/8	24-5/8	31-5/8	8	810	

1. Burner Capacity Rating, GPH is based on #2 oil with a Gross Heating Value equal to 140000 BTU/Gal.
2. Tankless heater ratings based on 40F inlet water, 140F outlet water, and 190F boiler water. Ratings are also based on 5 minute intermittent draws with 10 minutes between draws.



PHANTOM-X

Condensing - Direct Vent - Stainless Steel
Gas-Fired - Hot Water - Water Tube

- Five Sizes: 399-800 MBH
- 5:1 turndown ratio
- Up to 97% thermal efficiency
- Stackable for floor space savings
- Natural gas and LP applications - consult manual

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SPACE HEATING RATINGS						ALDI CERTIFIED				
MODEL	MAX. INPUT (MBH)	MIN. INPUT (MBH)	GROSS OUTPUT (MBH)	NET AHRI WATER RATING (MBH)	THERMAL EFFICIENCY	W (IN)	D (IN)	H (IN)	VENT DIAMETER (IN)	APPROX. SHIPPING WEIGHT (LBS)
PHNTM399C	399	80	375	326	94.1	16-7/8	31-3/16	43-1/2	4	316
PHNTM500C	500	100	485	422	97.0	16-7/8	46-1/2	35-1/16	4	368
PHNTM600C	625	125	594	517	95.0	16-7/8	49-1/2	35-1/16	6	458
PHNTM700C	725	145	689	599	95.0	16-7/8	49-1/2	35-1/16	6	458
PHNTM800C	800	160	760	661	95.0	16-7/8	53-5/16	35-1/16	6	500



PHANTOM-XL BOILER

Condensing - Gas-Fired - Hot Water

- Five Sizes - 399 MBH - 999 MBH
- 10:1 turndown, Natural gas or LP
- Venting of up to 200 (combined) equivalent ft.
- Fits through standard doorways
- 97% Thermal Efficiency

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PHANTOM-XL: Boiler Model Technical Information

Phantom-XL Commercial Ratings & Specifications (sea level to 2000 feet) ¹													
SPACE HEATING RATINGS						ALDI CERTIFIED							
MODEL	MAX. INPUT (MBH)	MIN. INPUT (MBH)	GROSS OUTPUT (MBH)	NET AHRI WATER RATING (MBH)	THERMAL EFFICIENCY %	D (IN.)	W (IN.)	H (IN.)	WATER CONTENT (GAL.)	VENT CONNECTION (IN.)	GAS CONNECTION (NPT)	SUPPLY & RETURN CONNECTION (NPT)	APPROX. SHIPPING WEIGHT (LBS.)
PHX 400	399	40	387	337	97	36-1/2	26-3/8	38-1/2	3.8	4	3/4	2	460
PHX 500	500	50	485	422	97	36-1/2	26-3/8	38-1/2	4.3	4	3/4	2	470
PHX 650	650	65	631	548	97	52-3/8	26-3/8	38-1/2	5.6	6	1	2	530
PHX 800	800	80	776	675	97	52-3/8	26-3/8	38-1/2	6.6	6	1	2	560
PHX 1000L	999	100	970	843	97	52-3/8	26-3/8	38-1/2	8.1	6	1	2	600



PHANTOM-XL WATER HEATER

Stainless Steel - Vertical

- Five Sizes - 399 MBH to 1000 MBH
- 10:1 turndown, Natural gas or LP
- Venting of up to 200 (combined) equivalent ft.
- Fits through standard doorways
- 98% Thermal Efficiency

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Phantom-XL(W) Commercial Ratings & Specifications (sea level to 2000 feet)¹

WATER HEATER RATINGS						AHRI CERTIFIED								
MODEL	MAX. INPUT (MBH)	MIN. INPUT (MBH)	GROSS OUTPUT (MBH)	DHW RECOVERY ¹ (GPH)	THERMAL EFFICIENCY %	D (IN.)	W (IN.)	H (IN.)	WATER CONTENT (GAL.)	VENT CONNECTION (IN.)	GAS CONNECTION (NPT)	SUPPLY & RETURN CONNECTION (NPT)	APPROX. SHIPPING WEIGHT (LBS.)	
PHXW 400	399	40	391	470	98	36-1/2	26-3/8	38-1/2	3.8	4	3/4	2	460	
PHXW 500	500	50	490	588	98	36-1/2	26-3/8	38-1/2	4.3	4	3/4	2	470	
PHXW 650	650	65	637	764	98	52-3/8	26-3/8	38-1/2	5.6	6	1	2	530	
PHXW 800	800	80	784	941	98	52-3/8	26-3/8	38-1/2	6.6	6	1	2	560	
PHXW 1000L	999	100	980	1176	98	52-3/8	26-3/8	38-1/2	8.1	6	1	2	600	

1. Based on 40°F to 140°F temperature rise.



RAPTOR-X[®] FIRE TUBE

Condensing - Direct Vent - Stainless Steel Gas-Fired - Hot Water - Fire Tube

- 95% thermal efficiency
- 10:1 turndown ratio
- Two sizes: 320 & 399 MBH
- Field convertible to LP gas with optional kit
- Can be floor or wall mounted

CLICK HERE FOR MORE INFO



SPACE HEATING RATINGS					AHRI CERTIFIED				
MODEL	INPUT MIN-MAX (MBH)	HEATING CAPACITY (MBH)	AHRI NET RATING (MBH)	THERMAL EFFICIENCY %	W (IN)	D (IN)	H (IN)	VENT DIAMETER (IN)	APPROX. SHIPPING WEIGHT (LBS)
RPTR320HB	32-320	304	264	95.0	23	22.4	45.28	4	270
RPTR399HB	39.9-399	379	330	95.0	23	22.4	45.28	4	275

COMMERCIAL

WATER

CONDENSING




GAS



SERIES 16H

**Cast Iron - Gas-Fired - Hot Water
Atmospheric Vent**

- Thermal efficiency ratings up to 81%
- Four sizes: 340-505 MBH input
- Shipped semi-packaged for convenience

SPACE HEATING RATINGS										
MODEL	INPUT MBH	GROSS OUTPUT MBH	NET AHRI WATER RATING MBH	THERMAL EFFICIENCY %	NO. OF SECS.	W (IN)	D (IN)	H (IN)	VENT DIAMETER (IN)	APPROX. SHIPPING WEIGHT (LBS)
16H-340	340	275	239	81.0	7	27-1/2	32-7/16	32-1/2	8	870
16H-410	410	328	285	80.1	8	31-1/4	32-7/16	32-1/2	9	950
16H-460	460	370	322	80.4	9	35	32-7/16	32-1/2	10	1040
16H-505	505	406	353	80.5	10	38-3/4	32-7/16	32-1/2	10	1140

Not available for use in elevations above 2000 ft.



SERIES 24 Cast Iron - Oil- or Gas-Fired Hot Water or Steam

- Ten sizes: 348-1852 MBH gross output for oil
- Ten Sizes: 356-1863 MBH gross output for gas
- Cast iron sectional heat exchanger and push nipples
- Easily assembled with short individual draw rods
- Optional tankless heater for domestic hot water
- Top or rear vent connections

SERIES 24 WATER & STEAM (OIL-FIRED)

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SPACE HEATING RATINGS												
MODEL	BURNER INPUT	GROSS OUTPUT	NET AHRI RATING			THERMAL EFFICIENCY %	NO. OF SECTIONS	W (IN.)	D (IN.)	H (IN.)	NOMINAL VENT DIA. (IN.)	APPROX. SHIPPING WEIGHT (LBS)
	OIL		STEAM		WATER							
	(GPH)		MBH	SQ. FT.	MBH							
24-03WO	3.05	356			310	85.0	3	32-1/8	18-1/4	57	7	1363
24-03SO	3.05	348	261	1088		81.5	3	32-1/8	18-1/4	57	7	1363
24-04*O	4.10	471	353	1471	410	82.1	4	32-1/8	24-1/4	57	7	1675
24-05*O	5.50	634	476	1983	551	82.1	5	32-1/8	30-1/4	57	8	1987
24-06*O	6.90	797	598	2492	693	82.1	6	32-1/8	36-1/4	57	8	2273
24-07*O	8.10	937	703	2929	815	82.1	7	32-1/8	42-1/4	57	8	2589
24-08*O	9.40	1087	815	3396	945	82.1	8	32-1/8	48-1/4	57	10	2901
24-09*O	11.40	1316	992	4133	1144	82.1	9	32-1/8	54-1/4	57	10	3282
24-10*O	13.00	1505	1149	4788	1309	82.1	10	32-1/8	60-1/4	57	10	3614
24-11*O	14.60	1690	1303	5429	1470	82.1	11	32-1/8	66-1/4	57	12	3925
24-12*O	16.00	1852	1396	5817	1610	82.1	12	32-1/8	72-1/4	57	12	4252

SERIES 24 WATER & STEAM (GAS-FIRED)

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SPACE HEATING RATINGS												
MODEL	BURNER INPUT	GROSS OUTPUT	NET AHRI RATING			THERMAL EFFICIENCY %	NO. OF SECTIONS	W (IN.)	D (IN.)	H (IN.)	NOMINAL VENT DIA. (IN.)	APPROX. SHIPPING WEIGHT (LBS)
	GAS		STEAM		WATER							
	(MBH)		MBH	SQ. FT.	MBH							
24-03WG	440	356			310	81.0	3	32-1/8	18-1/4	57	7	1363
24-04*G	594	476	357	1488	414	81.7	4	32-1/8	24-1/4	57	7	1675
24-05*G	792	634	476	1983	551	81.7	5	32-1/8	30-1/4	57	8	1987
24-06*G	990	793	595	2479	690	81.7	6	32-1/8	36-1/4	57	8	2273
24-07*G	1174	940	705	2938	817	81.7	7	32-1/8	42-1/4	57	8	2589
24-08*G	1358	1089	817	3404	947	81.7	8	32-1/8	48-1/4	57	10	2901
24-09*G	1641	1316	992	4133	1144	81.7	9	32-1/8	54-1/4	57	10	3282
24-10*G	1867	1497	1142	4758	1302	81.7	10	32-1/8	60-1/4	57	10	3614
24-11*G	2093	1681	1295	5396	1462	81.7	11	32-1/8	66-1/4	57	12	3925
24-12*G	2320	1863	1404	5850	1620	81.7	12	32-1/8	72-1/4	57	12	4252

COMMERCIAL

NON-CONDENSING

WATER/STEAM

OIL/GAS



SERIES 49 Cast Iron - Gas-Fired - Steam Atmospheric Vent

- Cast iron heat exchanger
- 82% AFUE
- Natural Gas only
- Sectional knock-down (150 to 550 MBH)
- Near Boiler Piping Kits available for models 49-150S to 49-299S
- 2" Skim taping

SERIES 49 STEAM (Nat Gas-Fired Only)

SPACE HEATING RATINGS


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MODEL	INPUT (MBH)	HEATING CAPACITY (MBH)	NET AHRI RATING		AFUE ² %	NO. OF SECTIONS	W (IN.)	H (IN.)	D (IN.)	NOMINAL VENT DIA. ³ (IN.)	SUPPLY (NPT)	RETURN (NPT)	GAS CONN ⁴ (NPT)	APPROX. SHIPPING WEIGHT (LBS)
			STEAM											
			MBH	SQ. FT.										
49-150S	150	124	93	388	82.0	4	21-3/8	40-3/4	40	6	(1) 2	2	3/4	625
49-175S	175	144	108	450	82.0	5	26-7/16	40-3/4	40	7	(2) 2	2	3/4	750
49-200S	200	165	124	517	82.0	5	26-7/16	40-3/4	40	7	(2) 2	2	3/4	750
49-250S	250	206	155	646	82.0	6	31-1/2	40-3/4	40	8	(2) 2	2	3/4	875
49-299S	299	246	185	771	82.0	7	36-9/16	40-3/4	40	8	(2) 2	2	3/4	881
49-350S	350	284 ¹	213	890	81.0 ²	8	41-5/8	40-3/4	40	6 & 7	(3) 2	2	1/2 & 3/4	1008
49-399S	399	323 ¹	242	1,012	81.0 ²	9	46-11/16	40-3/4	40	6 & 8	(3) 2	2	1/2 & 3/4	1123
49-450S	450	365 ¹	274	1,143	81.0 ²	10	51-3/4	40-3/4	40	7 & 8	(4) 2	2	3/4 & 3/4	1239
49-500S	500	405 ¹	304	1,269	81.0 ²	11	56-13/16	40-3/4	40	7 & 8	(4) 2	2	3/4 & 3/4	1354
49-550S	550	446 ¹	335	1,397	81.0 ²	12	61-7/8	40-3/4	40	8 & 8	(4) 2	2	3/4 & 3/4	1469

1. Gross output on models with inputs over 300MBH

2. Thermal efficiency on models with inputs over 300MBH

3. e.g. 6 & 7 indicates both 6 and 7 inch collar diameters (see installation manual)

4. e.g. 1/2 & 3/4 indicates both 1/2 and 3/4 inch gas connections

5. Not available for use in elevations above 2000 ft.

SPARQ

ELECTRIC BOILER

Residential - Electric - Water



STANDARD FEATURES

- Coated steel water tube heat exchanger
- Powder coated, steel jacket
- Dual built-in 60-amp circuit breaker
- Cooling fan
- Flow switch
- Temp/pressure gauge
- Boiler drain valve
- ASME relief valve (30 psi)
- Secondary high limit (manual)
- Enhanced individual element relays, pump switching relay
- Boiler Control w/diagnostic display
 - Anti short cycle timer
 - Dual setpoint
 - Automatic element cycling
 - DHW priority
 - Fault & dry fire protection

ADDITIONAL FEATURES

- 100% Efficient with Zero Emissions
- 20 Year Heat Exchanger Warranty
- 2 Year Parts Warranty
- UL 834 Listed

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MODEL	BOILER SIZE		POWER OUTPUT		ELEMENT SIZE	VOLTAGE (AC)	TOTAL AMPS	BREAKER (AMP)	APPROX. SHIPPING WEIGHT
	KW	MBH	WATTS	BTU/HR					
SWA16	16	55	16,000	54,600	4,000	240	72.7	100	70
SWA20	20	68	20,000	68,200	5,000	240	89.3	125	70
SWA24	20	82	24,000	82,000	6,000	240	106.0	150	70

RESIDENTIAL HEATING

ELECTRIC

WATER



MEGA-STOR II (MS2)

Stainless Steel - Indirect Water Heater

- Five sizes: 30-119 gallon
- Rugged design with coated steel jacket and heavy duty polymer top and bottom to resist cracks and abrasions (Available on sizes 30-75 only)
- Large diameter and smooth surface stainless steel coil maintains superior performance over the life of the tank
- Adjustable feet for uneven floors (Available on sizes 30-75 ONLY)

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AHRI PERFORMANCE RATINGS										AHRI CERTIFIED
MODEL	FIRST HOUR RATING	CONTINUOUS DRAW RATING	STANDBY LOSS (°F/HR)	MINIMUM BOILER OUTPUT (MBH)	BOILER WATER THROUGH COIL		POTABLE VOLUME (GAL)	D (IN)	H (IN)	APPROX SHIPPING WEIGHT (LBS)
	(GAL/HR)	(GAL/HR)			MIN FLOW (GAL/MIN)	HEAD LOSS (FT W.C.)				
MS2-030	162	138	1.4	87	8.0	2.6	30.1	23-1/2	33-1/8	69
MS2-040	192	162	1.1	101	8.0	2.8	37.9	23-1/2	39-3/8	82
MS2-050	236	193	0.9	121	8.0	2.9	50.6	23-1/2	49-3/4	112
MS2-075	307	238	1.0	150	8.0	4.5	74.0	23-1/2	68-3/4	146
MS2-119	497	417	1.4	264	14.0	4.2	111.3	30-3/4	62-7/8	251



MEGA-STOR BUFFER TANK

- Available in 3 sizes (30, 50, 75)
- Rugged design with coated steel jacket and heavy-duty polymer top and bottom
- Tank cylinder made of 444 stainless steel
- Adjustable feet for uneven floors
- 1-1/2" system connections

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MODEL	VOLUME (GAL.)	DIMENSIONS IN INCHES		WEIGHT	
		HEIGHT	WIDTH	NET	FULL
MSB-030	31.4	33-1/8	23-1/2	71	333
MSB-050	52.6	49-3/4	23-1/2	82	520
MSB-075	76.3	68-3/4	23-1/2	115	751



MAXI-THERM II (MT)

Glass Lined - Indirect Water Heater

- Three sizes: 40, 50 and 120 gallons
- Porcelain enamel tank
- Porcelain enamel coated smooth coil surface

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FOR MORE INFO**



AHRI PERFORMANCE RATINGS										
MODEL	FIRST HOUR RATING	CONTINUOUS DRAW RATING	STANDBY LOSS (°F/HR)	MINIMUM BOILER OUTPUT (MBH)	BOILER WATER THROUGH COIL		POTABLE VOLUME (GAL)	D (IN)	H (IN)	APPROX SHIPPING WEIGHT (LBS)
	(GAL/HR)	(GAL/HR)			MIN FLOW (GAL/MIN)	HEAD LOSS (FT W.C.)				
MT040 GBR	205	180	1.1	120	13.7	1.5	37	22	41-1/8	172
MT050 GBR	210	180	0.9	120	13.7	1.5	43	22	46-1/4	180

Note: First hour ratings are based on the following conditions: 180 deg. F Boiler Supply, 58 deg. F cold water in, 135 deg. F domestic water out.

ADVANCED FEATURES



INTEGRATED BOILER CONTROL

Features temperature control, relay and ignition functions in a single module. Included LWCO and additional circulator output for a second heating zone or an indirect water heater like the Mega-Stor II.

Standard on AWR & BWF



HYDROLEVEL 3250

The Hydrolevel HydroStat 3250 control provides temperature limit and low water cutoff, while allowing for outdoor reset control with the addition of an Outdoor Sensor Kit.

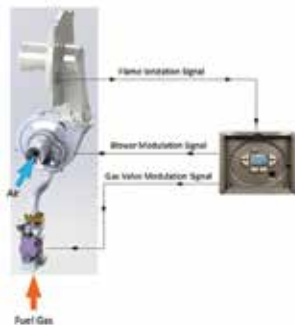
Standard on TWB & FWZ

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PATCONNECT

PAT Connect is a commissioning, diagnostic and service tool consisting of a Bluetooth Adaptor and mobile device app.

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PHANTOM ADAPTIVE COMBUSTION

Adaptive combustion technology features

- Field convertible to LP- No conversion Kit required
- Simple start-up
- Rate based temperature reset- no outdoor sensor required

Standard on Phantom II Combi and Heat Only boilers

[CLICK HERE FOR MORE INFO](#)

ACCESSORIES

STEAM NEAR BOILER PIPING KITS



The near boiler piping kit will assist in delivering “dry” steam to the heating system, reduce short cycling, eliminate water hammering and protect against system flooding. Kit includes all components required to complete the near boiler piping as recommended in the installation manual.

Available on BSI, FSZ,
KSB & S49

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CONDENSING ACCESSORIES



CPVC/PVC Vent Kits

Leg Kit
Raptor
Floor Stand
Phantom II

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Phantom II Combi Boiler

Domestic Hot Water
Piping Kit

[CLICK HERE FOR MORE INFO](#)



Phantom II Heat Only

Primary/
Secondary
Header

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PATCONNECT


Bluetooth
Adapter

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Warranty Information Guide (Parts/Heat Exchanger)

RESIDENTIAL									
WATER					STEAM				
OIL					GAS				
TOBAGO TWB		FREEPORT FWZ		FREEPORT FSZ		KINGSTON KSB		BERMUDA	
									
Input (GPH): 65, .75, 1.00, 1.25, 1.50, 1.75, 1.90		Input (GPH): 60, .80, 1.00, 1.30, 1.60		Input (GPH): 80, 1.00, 1.30, 1.60		Input (GPH): .65, .75, 1.00, 1.20, 1.50, 1.75, 1.90		Input (MBH): 69, 103, 138, 172, 207, 241, 276	
Warranty (Heat Exchanger)	20 years*	Warranty (Heat Exchanger)	20 years*	Warranty (Heat Exchanger)	12 years*	Warranty (Heat Exchanger)	12 years*	Warranty (Heat Exchanger)	12 years*
Warranty (Parts)	1 year	Warranty (Parts)	1 year	Warranty (Parts)	1 year	Warranty (Parts)	1 year	Warranty (Parts)	1 year

RESIDENTIAL			
WATER			
GAS			
NON-CONDENSING			
ARUBA 5		BALI 2	
			
Input (MBH): 38, 70, 105, 140, 175, 210, 245, 280		Nat. Gas Input (MBH): 70-245 Propane Input (MBH): 63-220	
Warranty (Heat Exchanger)	20 years*	Warranty (Heat Exchanger)	20 years*
Warranty (Parts)	1 year	Warranty (Parts)	1 year

RESIDENTIAL									
WATER									
GAS									
CONDENSING									
PHANTOM II COMBI		PHANTOM II HEAT ONLY		PHANTOM-X		RAPTOR		SPARQ	
									
Input (MBH): 136, 200 10:1 Turndown		Input (MBH): 80, 120, 150, 180 10:1 Turndown		Input (MBH): 210, 285 5:1 Turndown		Input (MBH): 85, 110, 155, 205, 270 10:1 Turndown.		Input (MBH): 16kW (54.6 MBH) 20kW (68.2 MBH) 24kW (82.2 MBH)	
Warranty (Heat Exchanger)	7 years*	Warranty (Heat Exchanger)	7 years*	Warranty (Heat Exchanger)	7 years*	Warranty (Heat Exchanger)	7 years*	Warranty (Heat Exchanger)	7 years*
Warranty (Parts)	5 years	Warranty (Parts)	5 years	Warranty (Parts)	5 years	Warranty (Parts)	5 years	Warranty (Parts)	5 years





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Warranty Information Guide (Parts/Heat Exchanger)

RESIDENTIAL/COMMERCIAL			
INDIRECT WATER HEATERS			
MEGA-STOR II		BUFFER TANK	
			
Size: 30, 40, 50, 75, 119		Size: 30, 50, 75	
Warranty (Heat Exchanger and Tank)	8 years**	Warranty (Tank)	5 years
Warranty (Parts)	1 year	Warranty (Parts)	1 year

COMMERCIAL							
WATER		STEAM		WATER/STEAM		WATER/GAS	
NON-CONDENSING							
FW		SERIES 49		SERIES 24		SERIES 16H	
							
Nat. Gas Input (MBH): 433-1,299 Oil Input (GPH): 3.0 - 9.0		Nat. Gas Input (MBH): 150-550		Nat. Gas Input (MBH): 440 - 2320 Oil Input (GPH): 3.05 - 16.0		Input (MBH) 340,410,460,505	
Warranty (Heat Exchanger)	10 years*	Warranty (Heat Exchanger)	10 years*	Warranty (Heat Exchanger)	10 years*	Warranty (Heat Exchanger)	10 years*
Warranty (Parts)	1 year	Warranty (Parts)	1 year	Warranty (Parts)	1 year	Warranty (Parts)	1 year

COMMERCIAL							
WATER							
GAS							
CONDENSING							
PHANTOM-XL		RAPTOR-X		PHANTOM-X		PHANTOM XL WH	
							
Input (MBH) SIZE: 399, 500, 650, 800, 1000 10:1 Turndown		Input (MBH): 32-320, 39.9-399 10:1 Turndown		Input (MBH): 399, 500, 625, 725, 800 5:1 Turndown		Input (MBH) SIZE: 399, 500, 650, 800, 1000 10:1 Turndown	
Warranty (Heat Exchanger)	10 years*	Warranty (Heat Exchanger)	5 years*	Warranty (Heat Exchanger)	5 years*	Warranty (Heat Exchanger and Tank)	10 years*
Warranty (Parts)	1 year	Warranty (Parts)	1 year	Warranty (Parts)	1 year	Warranty (Parts)	1 year

* Boiler Heat Exchanger warranty covers manufacturing defects to the original owner only. A proof of original purchase will be required. For full and pro-rated terms, please go to; <https://www.velocityboilerworks.com/support/product-warranties/>

** Limited Lifetime Warranty for Residential Installations for the Heat Exchanger and Tank cover manufacturing defects to the original owner only. A proof of original purchase will be required. For complete details please go to; <https://www.velocityboilerworks.com/support/product-warranties/>

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- High-grade materials and “smart” controls for maximum efficiency and cost savings
- Safe, reliable and durable products for years of exceptional performance
- Expertly engineered, inspected and certified to meet the most rigorous standards for quality, safety and efficiency
- Delivered fully assembled and tested, easy to install and service
- A wide range of venting options and boiler sizes to fit the needs of any home or business
- Backed by superior warranties, with friendly and experienced technicians ready to answer questions and provide support

At Velocity Boiler Works our products are built to the highest standards, earning one or more of the following marks:



Quality
Value &
Service