

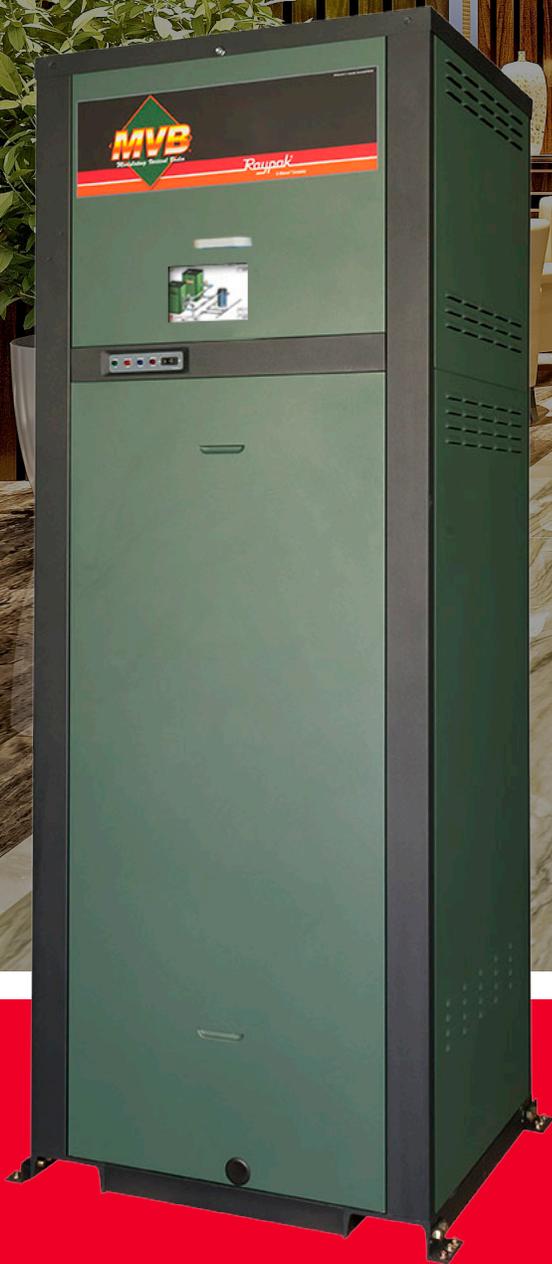
MVB[®]

BOILER & WATER HEATER

VERSA IC[®] WITH
RAYMOTE[™]

VENTING
VERSATILITY

COMPACT
DESIGN

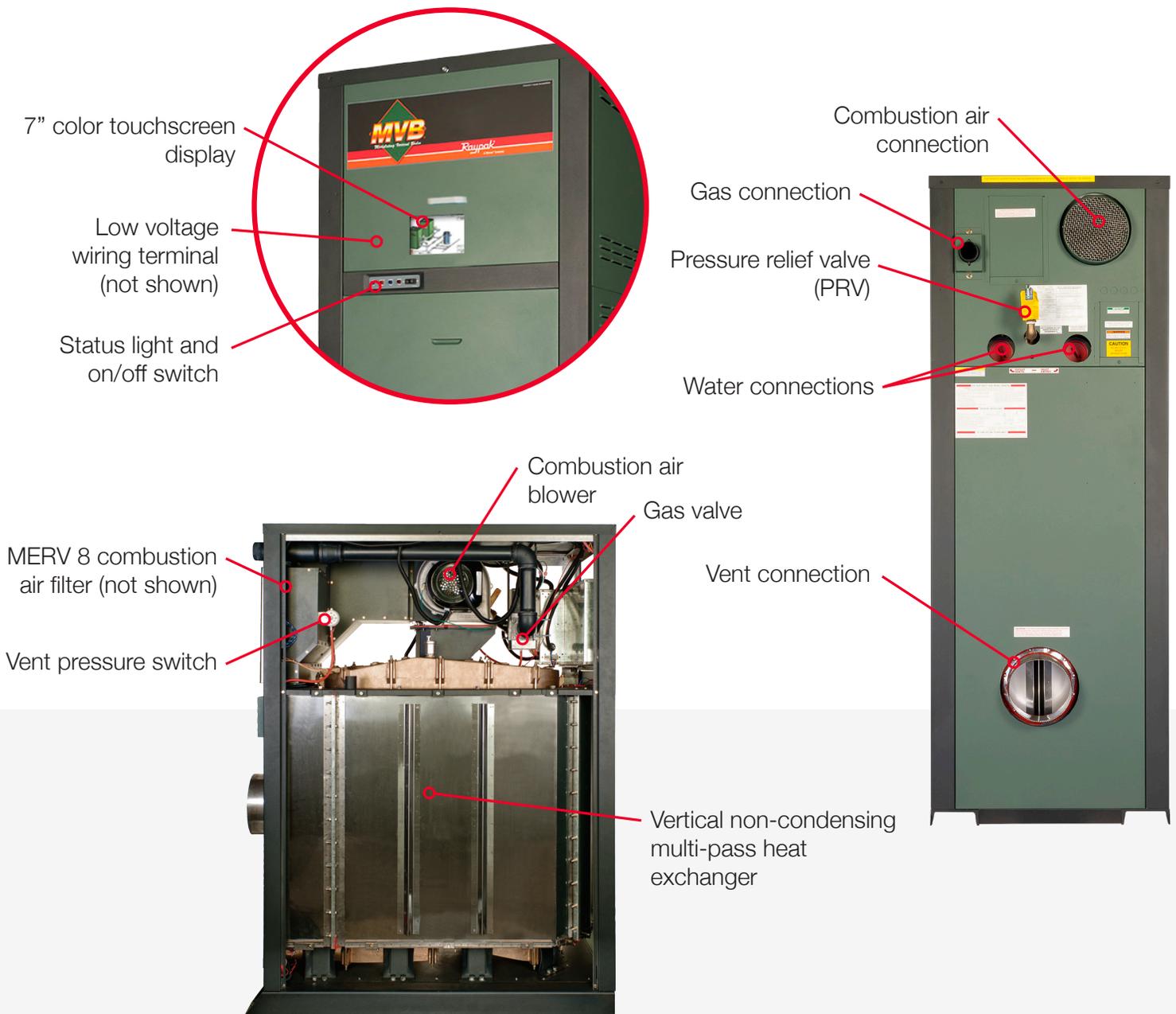


Raypak[®]
A Rheem[®] Company

ENGINEERED TO PERF

Modulating vertical boiler and water heater with venting flexibility.

The MVB boiler and water heater provides installation flexibility, ease-of-commissioning, reliability and long-term performance. The vertical design allows for the MVB's small footprint, making it the perfect solution for small spaces and retrofit projects. The copper or cupronickel, finned water tube heat exchanger is non condensing and will be a dependable and easy work horse for you and the building.



ORM. BUILT TO LAST.

VERSA IC intelligence with Raymote connectivity.

Raypak's VERSA IC combines modulating temperature control, safety limits, and ignition programming into one user-friendly integrated control platform. With self-learning features that prevent equipment damage, this automated controller is easy to set-up, understand, and use, making it as close to plug and play as possible.

The VERSA IC system can be remotely monitored through the Raymote mobile app or web dashboard. With touch-of-a-button access to vital information, Raymote gives you:

- Real time service notifications to keep you informed.
- View and manage your Raypak systems at multiple sites.
- Instant visibility to historical data and performance reports.

1 year of Raymote service included.

Raymote retrofit kits available for installed products with the VERSA IC touchscreen.

Raymote™



Indoor or Outdoor

Safety certified for indoor/outdoor installation. Every MVB is direct vent capable and comes standard with an outdoor intake air cover.

Weatherproof Jacket

Heavy gauge galvanized steel with a UV-resistant powder coat finish is impervious to weather and corrosion.



Small Footprint

Compact design makes the MVB the perfect choice for small spaces and an ideal option for hard to reach retrofit projects. Footprint is 5.4 ft² for 500M – 2MM BTUH and 11.8 ft² for 2.5MM – 4MM BTUH.

Easy To Connect

The MVB high voltage wiring center is located on the rear of the boiler. All incoming line voltage and pump wiring are contained away from the 24V control wiring. Wiring the boiler is simple and straightforward.



Maximum Performance

Reduce operating costs and heat your water quicker with MVB 84%–87% thermal efficiency. Enhance your capability and flexibility. Up to 8 units can be cascaded in parallel or sequential modulation modes along with interstage delay settings giving you precise control and optimization of your boiler or water heater system.

Cold Water Protection

The MVB can be equipped with Cold Water Start or Cold Water Run systems, which provide protection against condensation in the non-condensing heat exchanger and maintain optimum inlet temperatures.

Learn more at raypak.com



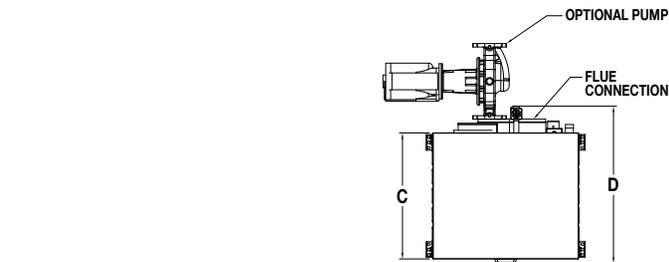
MVB - Type H & WH Models 503/4A - 4003

Model	MBTUH (kW/h)				Turndown (H)	Thermal Efficiency % (H)	Thermal Efficiency % (WH)	Dimensions - in. (mm)				Dimensions - in.				Amp Draw ‡	Shipping Weight Lbs. (kg)
	Input (H)	Input (WH)	Output (H)	Output (WH)				A Height	B Width	C Base Depth	D Overall Depth	G (Nat) NPT†	H Water	K Flue ø	N C/A ø		
504A	500 (146.5)	500 (146.5)	420 (123.1)	415 (121.6)	1.7:1	84	83	43 1/4 (1098.6)	30 (762.0)	26 (660.4)	32 (812.8)	1	2	8	6	12	651 (295.3)
754A*	750 (219.8)	750 (219.8)	630 (184.6)	623 (182.5)	1.7:1	84	83	49 (1244.6)	30 (762.0)	26 (660.4)	32 (812.8)	1	2	10	6	12	689 (312.5)
1104A*	1100 (322.3)	1045 (306.2)	924 (270.7)	870 (254.9)	1.7:1	84	83.3	55 (1397.0)	30 (762.0)	26 (660.4)	32 (812.8)	1 1/4	2 1/2	10	6	12	716 (324.8)
1504A*	1500 (439.5)	1425 (417.5)	1260 (369.2)	1187 (347.8)	1.7:1	84	83.3	61 (1549.4)	30 (762.0)	26 (660.4)	32 (812.8)	1 1/4	2 1/2	12	8	12	784 (355.6)
2004A*	1999 (585.7)	1900 (556.7)	1679 (491.9)	1583 (463.8)	1.7:1	84	83.3	75 (1905.0)	30 (762.0)	26 (660.4)	32 (812.8)	2	2 1/2	14	8	18	891 (404.1)
503A	500 (146.5)	500 (146.5)	431 (126.3)	435 (127.5)	7 to 1	86.2	87	43 (1092.2)	30 (762.0)	26 (660.4)	32 (812.8)	1	2	6	6	15	642 (291.2)
753A	750 (219.8)	750 (219.8)	647 (189.6)	653 (191.3)	7 to 1	86.2	87	49 (1244.6)	30 (762.0)	26 (660.4)	32 (812.8)	1	2	6	6	15	683 (309.8)
1003A	999 (292.7)	999 (292.7)	861 (252.3)	869 (254.6)	7 to 1	86.2	87	55 (1397.0)	30 (762.0)	26 (660.4)	32 (812.8)	1 1/4	2 1/2	6	6	15	716 (324.8)
1253A	1250 (366.3)	1250 (366.3)	1078 (315.9)	1088 (318.8)	7 to 1	86.2	87	61 (1549.4)	30 (762.0)	26 (660.4)	32 (812.8)	1 1/4	2 1/2	8	8	15	763 (346.1)
1503A	1500 (439.5)	1500 (439.5)	1293 (378.8)	1305 (382.4)	7 to 1	86.2	87	67 (1701.8)	30 (762.0)	26 (660.4)	32 (812.8)	1 1/4	2 1/2	8	8	15	815 (369.7)
1753A	1750 (512.8)	1750 (512.8)	1508 (441.8)	1523 (446.2)	7 to 1	86.2	87	75 (1905.0)	30 (762.0)	26 (660.4)	32 (812.8)	2	2 1/2	8	8	15	877 (397.8)
2003A	1999 (585.7)	1999 (585.7)	1723 (504.8)	1739 (509.5)	7 to 1	86.2	87	81 (2057.4)	30 (762.0)	26 (660.4)	32 (812.8)	2	2 1/2	8	8	15	938 (425.5)
2503	2501 (732.8)	2501 (732.8)	2126 (622.9)	2126 (622.9)	7 to 1	85	85	68 1/4 (1733.6)	30 7/8 (784.2)	55 1/2 (1409.7)	68 1/2 (1739.9)	2 1/2	4	10	10	12	1786 (810.1)
3000	3000 (879.0)	3000 (879.0)	2550 (747.2)	2550 (747.2)	7 to 1	85	85	73 1/4 (1860.6)	30 7/8 (784.2)	55 1/2 (1409.7)	68 1/2 (1739.9)	2 1/2	4	10	10	15	1842 (835.5)
3500	3500 (1025.5)	3500 (1025.5)	2975 (871.7)	2975 (871.7)	7 to 1	85	85	78 1/4 (1987.6)	30 7/8 (784.2)	55 1/2 (1409.7)	68 1/2 (1739.9)	2 1/2	4	12	12	17	1916 (869.1)
4000	4000 (1172.0)	4000 (1172.0)	3400 (996.2)	3400 (996.2)	7 to 1	85	85	83 1/4 (2114.6)	30 7/8 (784.2)	55 1/2 (1409.7)	68 1/2 (1739.9)	2 1/2	4	12	12	20	2032 (921.7)

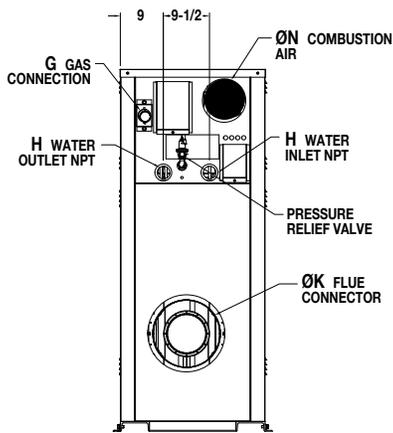
* Category I with vertical vent, category III with horizontal venting and no extractor.
 † For Propane, gas connection is 1" for 503A thru 2004A and 2-1/2" for 2503 thru 4003.
 ‡ Current draw is for heater only. (Supply breaker must have a delayed trip.)
 Minimum fire of WH models is 60% of full rate.

	Clearances - in. (mm)		
	Certified Minimum	503/4A-2003/4A	2503-4003
		Recommended Service	Recommended Service
Front	24 (610)	24 (610)	30 (762)
Rear	12 (305)	24 (610)	36 (915)
Right	1 (25)	1 (25)	24 or 1" (610 or 25*)
Left	1 (25)	1 (25)	24 or 1" (610 or 25*)
Top (indoor)	0	10 (254)	12 (305)
Top (outdoor)	Unobstructed		
Floor	0	0	0
Vent Stack (indoor)	1 (25)	1 (25)	1 (25)
Vent Cap (outdoor)	12 (305)	12 (305)	12 (305)

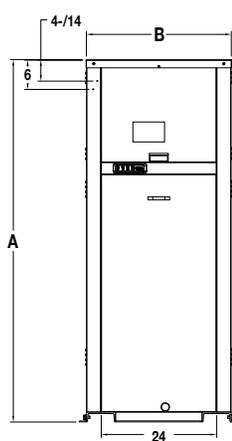
*Service clearance can be on right or left side



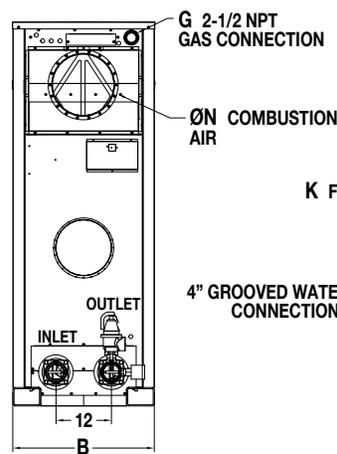
TOP VIEW



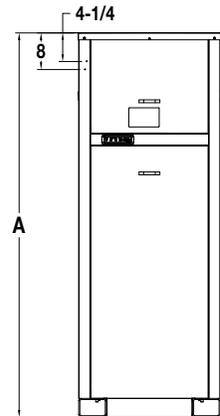
REAR VIEW



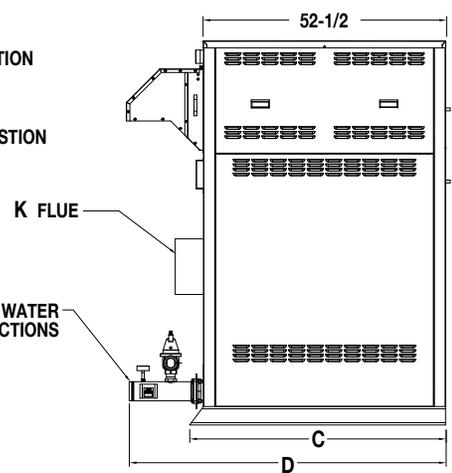
FRONT VIEW



REAR VIEW



FRONT VIEW



SIDE VIEW

Models 503A-2003A, 504A-2004A

Models 2503-4003

www.raypak.com

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