



PROFESSIONAL

Free factory startup and 1-Year parts/labor warranty

included when purchased through a Raypak Pool Distributor or Authorized Raypak Pool Dealer.

MVB CAT I & III MODULATING VERTICAL POOL & SPA HEATER 504A-2004A **COMMERCIAL GRADE**

Installation Flexibility

- 5 model sizes, ranging from 500 MBTUH - 2 MMBTUH
- Smallest pool heater in the industry, based on square foot per BTUH
- Great option for retrofit applications, fits through 32" doorway
- Venting Category I and Category III optional
- Safety certified for indoor/outdoor installation
- Available in both natural gas or propane gas models

Reliability

- 83 to 83.3% Thermal efficiency (third-party tested, see reverse side for details)
- 4-pass heat exchanger helps premix the water to eliminate cold/hot spots
- Straight tube, vertical cupronickel heat exchanger design
- Cold Water Run (with H-Bypass) models recommended to maintain optimum inlet temperatures and provide constant protection against condensation
- ASME certified bronze headers (rust-free)
- Great replacement option for Raytherm atmospheric models

raypak.com/pool

2151 Eastman Avenue | Oxnard, CA 93030 | 805-278-5300
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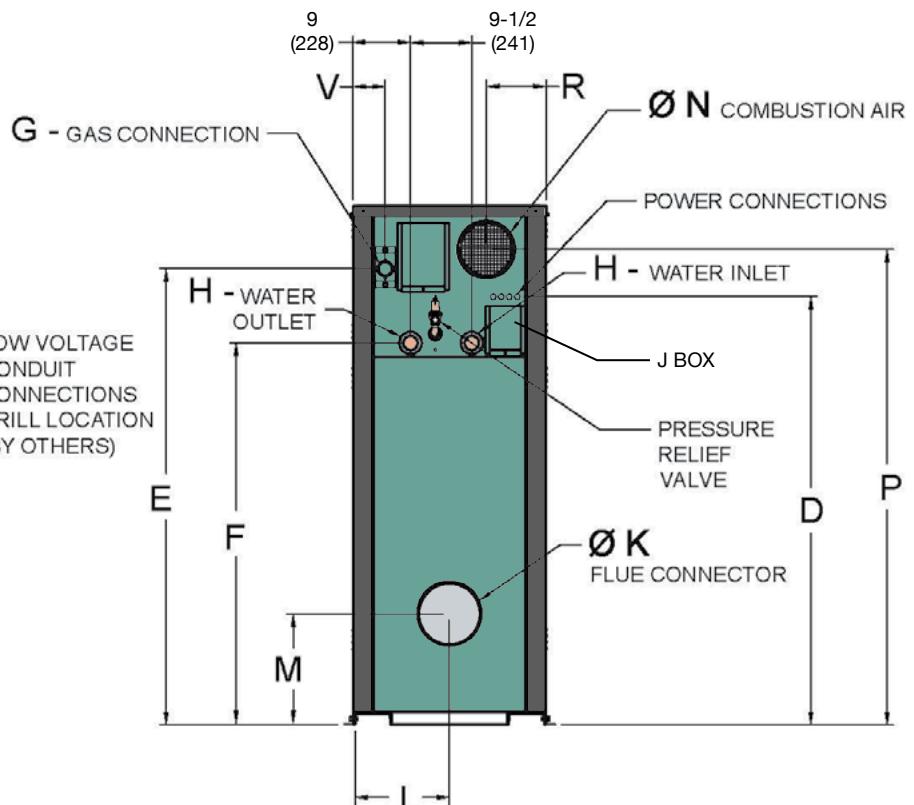
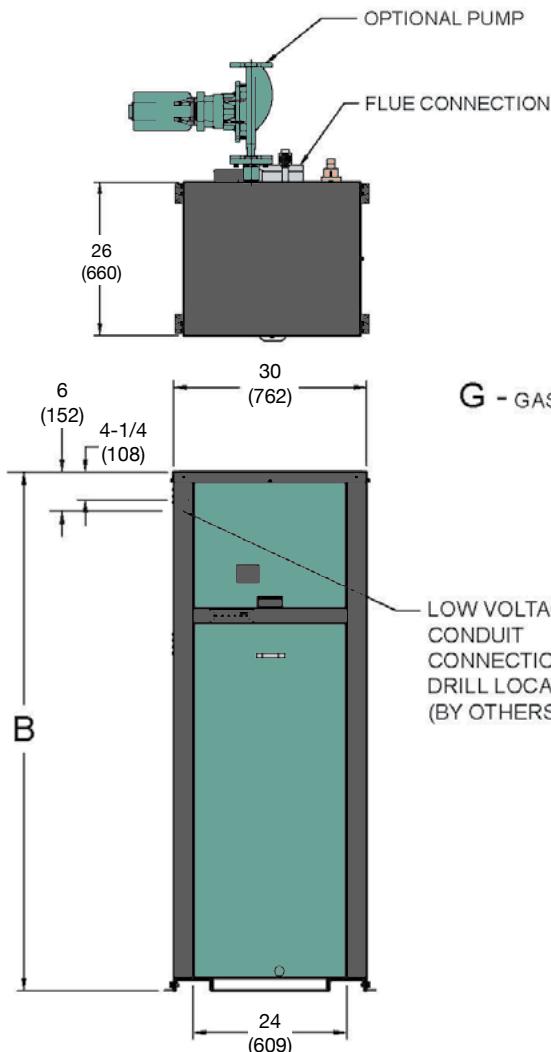


Controls

- Wi-Fi connectivity and control through free Rayremote App, diagnostics and notifications keep you informed
- VERSA Integrated Controls merges safety, ignition, temperature control, multi-unit cascade, and freeze protection in one platform.
- Easy to read, setup, and troubleshoot on 7" touchscreen
- Cascade up to 8 units for increased capacity and system redundancy (parallel or sequential modulation)

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| Model | MBTUH (kW/h) | | Thermal Efficiency | Dimensions in. (mm) | | | | | | | | | | | | | | | Shipping Weight lbs. (Kg) | Amps ² w/ Pump |
|-------|--------------|------------|--------------------|---------------------|-----------|-----------|---------------|--------------------|------------|----------|--------------|--------------|---------|-----------|---------|---------|-------------|-----|---------------------------|---------------------------|
| | Input | Output | | B | D | E | F | G NPT ¹ | H NPT | K Flue Ø | L | M | N C/A Ø | P | R | V | | | | |
| 504A | 500 (147) | 415 (122) | 83% | 43 (1092) | 32 (813) | 35 (889) | 23-3/4 (603) | 1 (25) | 2 (51) | 8 (203) | 13-3/4 (349) | 13-3/4 (349) | 6 (152) | 35 (889) | 6 (152) | 2 (51) | 600 (272.1) | <12 | | |
| 754A | 750 (220) | 623 (183) | 83% | 49 (1245) | 38 (965) | 41 (1041) | 29-3/4 (756) | 1 (25) | 2 (51) | 10 (254) | 13-1/2 (343) | 13-1/2 (343) | 6 (152) | 41 (1041) | 6 (152) | 2 (51) | 660 (299.3) | <12 | | |
| 1104A | 1100 (322) | 916 (268) | 83.3% | 55 (1397) | 44 (1118) | 47 (1194) | 35-3/4 (908) | 1-1/4 (32) | 2-1/2 (64) | 10 (254) | 13-1/2 (343) | 13-1/2 (343) | 6 (152) | 47 (1194) | 6 (152) | 2 (51) | 720 (326.5) | <12 | | |
| 1504A | 1500 (440) | 1250 (366) | 83.3% | 61 (1549) | 50 (1270) | 53 (1346) | 41-3/4 (1060) | 1-1/4 (32) | 2-1/2 (64) | 12 (305) | 13-3/4 (349) | 13-3/4 (349) | 8 (203) | 53 (1346) | 6 (152) | 2 (51) | 780 (353.7) | <12 | | |
| 2004A | 1999 (586) | 1583 (464) | 83.3% | 75 (1905) | 62 (1575) | 65 (1651) | 53-3/4 (1365) | 2 (51) | 2-1/2 (64) | 14 (356) | 13-1/2 (343) | 13-1/2 (343) | 8 (203) | 68 (1727) | 9 (229) | 5 (127) | 940 (426.3) | <18 | | |

| Model | With H-Bypass | | |
|-------|---------------|-------|-------------------|
| | Pump | | |
| | Model | HP | Amps ² |
| 504A | 1611 | 1/4 | 6 |
| 754A | 1611 | 1/4 | 6 |
| 1104A | 1630 | 1/2 | 7 |
| 1504A | 1634 | 1 | 14 |
| 2004A | 1636 | 1-1/2 | 22 |

| Heater Side | Clearances in. (mm) | |
|-------------|---|------------------------|
| | Min. Clearances from Combustible Surfaces | Min. Service Clearance |
| Front | 24 (610) | 24 (610) |
| Rear | 12 (305) | 24 (610) |
| Right side | 1 (25) | 24 (610) |
| Left side | 1 (25) | 24 (610) |
| Top | 0 | 10 (254) |
| Floor | 0 | 0 |
| Vent | 1 (25) | 1 (25) |

Ratings shown are for elevations up to 4,500 feet. For installations at elevations above 4,500 ft; consult factory. No hardware changes required below 10,000 feet.

1. For Natural Gas. For Propane, all sizes are 1" (25 mm) NPT.
2. Current draw is for heater only (Supply breaker must have delayed trip.) For direct vent applications, contact the factory about relocating the pump