

Modulating Vertical Boiler

MVB



The Newest Wave in Modulating Technology

Raypak has taken the design technology for modulating vertical boilers to the next level with the all new MVB. By precisely matching the latest control and combustion components, the optimum fuel-air ratio is maintained throughout the entire range of load-tracking operation. This system-matched approach allows the MVB to achieve 87% thermal efficiency. A 4:1 turndown capability ensures the exact input to match the heating demand and maximizes efficiency.

MVB Key Features

- 7 models from 500,000 – 2,000,000 BTUH
- Modulating gas valve and burner, 4:1 turndown
- Engineered with precisely matched system components
- Small footprint design fits tight spaces and easily replaces larger boilers
- Advanced diagnostics and easy component access make service simple
- No boiler condensate drain required (patent-pending design)
- All models indoor/outdoor certified
- Complete cabinet protects all controls and wiring
- Meets all current Low NOx regulations
- With all copper and bronze waterways, the MVB is available in boiler and water heater configurations



The Hot Water Management Experts

For over 50 years Raypak has been there when you need us. From system design through installation and start-up, your local Raypak Representative is backed up by the industry's best applications engineering and service department. Visit our website to find the Representative in your area.

www.raypak.com





Combustion System

A U.S. first, the new MVB incorporates the latest European technology with the Dungs modulating gas valve. This integrated compact system self-corrects for excessive vent lengths allowing more installation flexibility. The pull-through action of the blower-gas valve package allows operation with near-zero gas supply pressure.



Control Panel

Cabinet design affords easy installation and service. Fully enclosed controls and wiring protect against damage or vandalism.



Universal Diagnostic Board

17 LEDs monitor and record up to 22 safety circuits making it easy to diagnose a transient problem without extra monitoring equipment.



Modulating Controller

This factory-mounted multi-function controller offers selectable modes with easily accessible screen displays and delivers precise load-tracking.

Options

Cold Water Start

Automatic bypass prevents internal condensation on start-up

Cold Water Run

Prevents condensation in continuous low-temperature operation

Y-200 Boiler Sequencer

Provides additional functionality for multiple-boiler installations. Compatible with LonWorks® Building Management Systems (BMS)

| Model No. | MBTUH | | Dimensions (in.) | | | | | |
|-----------|-------|--------|------------------|-------|-------|-----------|-------------|-----------|
| | Input | Output | Height | Width | Depth | Flue Dia. | Water Conn. | Gas Conn. |
| 503 | 500 | 435 | 43 | 30 | 26 | 6 | 2 | 1 |
| 753 | 750 | 653 | 49 | 30 | 26 | 6 | 2 | 1 |
| 1003 | 999 | 869 | 55 | 30 | 26 | 6 | 2-1/2 | 1-1/4 |
| 1253 | 1250 | 1088 | 61 | 30 | 26 | 8 | 2-1/2 | 1-1/4 |
| 1503 | 1500 | 1305 | 67 | 30 | 26 | 8 | 2-1/2 | 1-1/4 |
| 1753 | 1750 | 1523 | 75 | 30 | 26 | 8 | 2-1/2 | 2 |
| 2003 | 1999 | 1739 | 81 | 30 | 26 | 8 | 2-1/2 | 2 |

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Catalog No. 3400.11A Effective: 02-01-06 Replaces: 01-01-06

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