

**HEATRITE™**



# Heat-Rite™ VM Brooders.

## The Radiant Tube Heater For Brooders That Maximizes Fuel Savings.



Glow Radiant

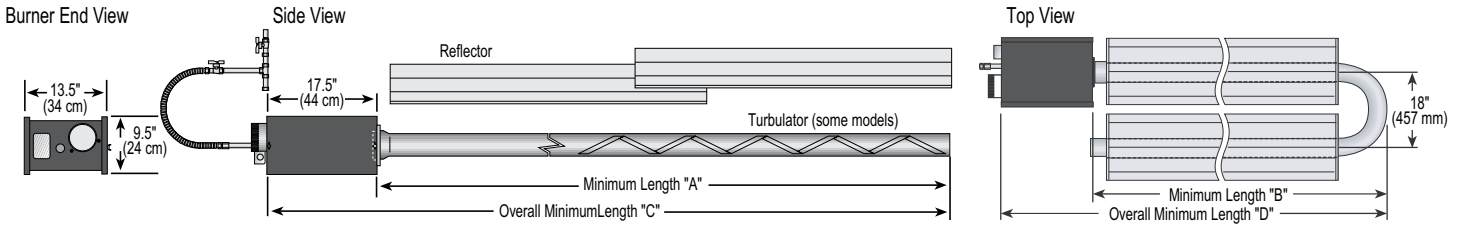


Space Heater

- Modulation controls the burn and blower rate for maximum efficiency.  
By controlling both FUEL and COMBUSTION AIR, Heat-Rite™ modulating heaters balance radiant and thermal heat to produce the precise temperature you want.
- With VM Models, the burner box fires from one end of the tube.
- Ceiling mounting provides wide, even coverage of the house.
- The infrared process heats objects rather than wasting heat on the air, allowing VM to efficiently warm the floor and chicks.
- Valuable brooder space is gained... no need to raise and lower.
- Flexible design options and a broad range of burner sizes and tube lengths. Natural gas or liquid propane styles available.
- Burner box design with enclosed controls protects components from dirt and moisture exposure.



Performance You Can Count On



| Heat-Rite™ Model                                   |              | VM-80                                                                                                                                                                  | VM-115        | VM-150         |    |
|----------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----|
| Minimum Length of Straight Tube (Ft., In.)         | <b>A</b>     | 20                                                                                                                                                                     | 30            | 40             |    |
| Minimum Length of U-Tube (Ft., In.)                | <b>B</b>     | 11,7                                                                                                                                                                   | 16,7          | 21,7           |    |
| Overall Minimum Length of Straight Tube (Ft., In.) | <b>C</b>     | 21,5,5                                                                                                                                                                 | 31,5,5        | 41,5,5         |    |
| Overall Minimum Length of U-Tube (Ft., In.)        | <b>D</b>     | 13,0,5                                                                                                                                                                 | 18,0,5        | 23,0,5         |    |
| <b>Input (BTU/Hr.) (x1000) Minimum (NG/LP)</b>     |              | <b>52/55</b>                                                                                                                                                           | <b>75/78</b>  | <b>100/105</b> |    |
| <b>Input (BTU/Hr.) (x1000) Maximum</b>             |              | <b>80</b>                                                                                                                                                              | <b>115</b>    | <b>150</b>     |    |
| Fuel                                               |              | Natural Gas (NG) or Propane Gas (LP)                                                                                                                                   |               |                |    |
| Inlet Pressure (In.) W.C.                          | <b>NG LP</b> | 5.5 Minimum for VM-80, 115 and 150; 14.0 Maximum<br>12.0 Minimum for VM-80, 115 and 150; 14.0 Maximum                                                                  |               |                |    |
| Gas Connection                                     |              | 1/2" NPT for VM-80 and 115; 3/4" NPT for VM-150                                                                                                                        |               |                |    |
| Electrical Supply                                  |              | 120V, 60 Hz., 1.3 Amp (Run), 4.8 Amp (Start)                                                                                                                           |               |                |    |
| Heat Exchanger Tubing                              |              | 10 Ft. Sections, 4" dia., 16 Gauge, First 10 Ft. ALUMI-THERM® Steel Tubing<br>(Remaining Heat Treated Aluminumized Steel Tubing)                                       |               |                |    |
| Exhaust Flue O.D. (In.)                            |              | 4"                                                                                                                                                                     |               |                |    |
| Combustion Air Inlet O.D. (In.)                    |              | 4" for VM-80 and 115; 5" for VM-150                                                                                                                                    |               |                |    |
| Reflector and End Caps                             |              | .024 Aluminum (Optional - .024 Stainless Steel Type 304)                                                                                                               |               |                |    |
| Control System                                     |              | Modulating Gas Valve and Hot Surface Electronic Ignition Control Four-Try,<br>100% Shut-Off, Pre-purge, Post-purge, Auto Reset, Tri-Color LED Status / Fault Indicator |               |                |    |
| Control Options                                    |              | Zone Sensor, Thermostat, 10 K ohm Potentiometer, Remote 0-10 Vdc or 4-20 mA Signal                                                                                     |               |                |    |
| Approved As                                        |              | Indoor (Vented or Unvented)                                                                                                                                            |               |                |    |
| Certification                                      |              | ANSI Z83.20 / CSA 2.34                                                                                                                                                 |               |                |    |
| Warranty                                           |              | Three-year Limited (Refer to Installation, Operation and Service Manual for Details)                                                                                   |               |                |    |
| <b>Weights</b>                                     |              |                                                                                                                                                                        |               |                |    |
| Overall Length of Tube and Accessory Packages      | <b>Feet</b>  | 20                                                                                                                                                                     | 30            | 40             |    |
| Aluminumized Tube with [Aluminum/SS] Reflector     | <b>Lbs.</b>  | 86/113                                                                                                                                                                 | 120/152       | 161/208        |    |
| Aluminumized U-Tube with End Caps                  | <b>Lbs.</b>  | 19 with Aluminum End Caps; 20 with Stainless Steel End Caps                                                                                                            |               |                |    |
| Burner                                             | <b>Lbs.</b>  | 40                                                                                                                                                                     |               |                |    |
| <b>Clearances to Combustibles* (In.)</b>           |              | <b>VM-80</b>                                                                                                                                                           | <b>VM-115</b> | <b>VM-150</b>  |    |
|                                                    |              | <b>Horiz.</b>                                                                                                                                                          | <b>Horiz.</b> | <b>Horiz.</b>  |    |
|                                                    |              | <b>A</b>                                                                                                                                                               | 6             | 6              | 6  |
|                                                    |              | <b>B</b>                                                                                                                                                               | 38            | 46             | 50 |
|                                                    |              | <b>C</b>                                                                                                                                                               | 66            | 77             | 80 |
| <b>D</b>                                           | 38           | 46                                                                                                                                                                     | 50            |                |    |

\*Clearances **B, C, D** can be reduced by 50% for locations 25 ft. or more downstream of the burner. For other mounting options and associated clearances, complete installation, operation and service criteria, please see the current issue of the HEAT-RITE™ VM Installation, Operation and Service Manual.

**Installation Code:** VAL-CO products are to be installed only in accordance with local laws,

codes and regulations, and only by a contractor qualified in the installation and service of gas-fired heating equipment. **This product is not for residential use.**

**Further Information:** Applications, engineering and detailed guidance on systems design, installation and product performance is available through VAL-CO North American independent distributors. Please contact us

for any further information you may require, including the HEAT-RITE™ VM Installation, Operation and Service Manual.

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