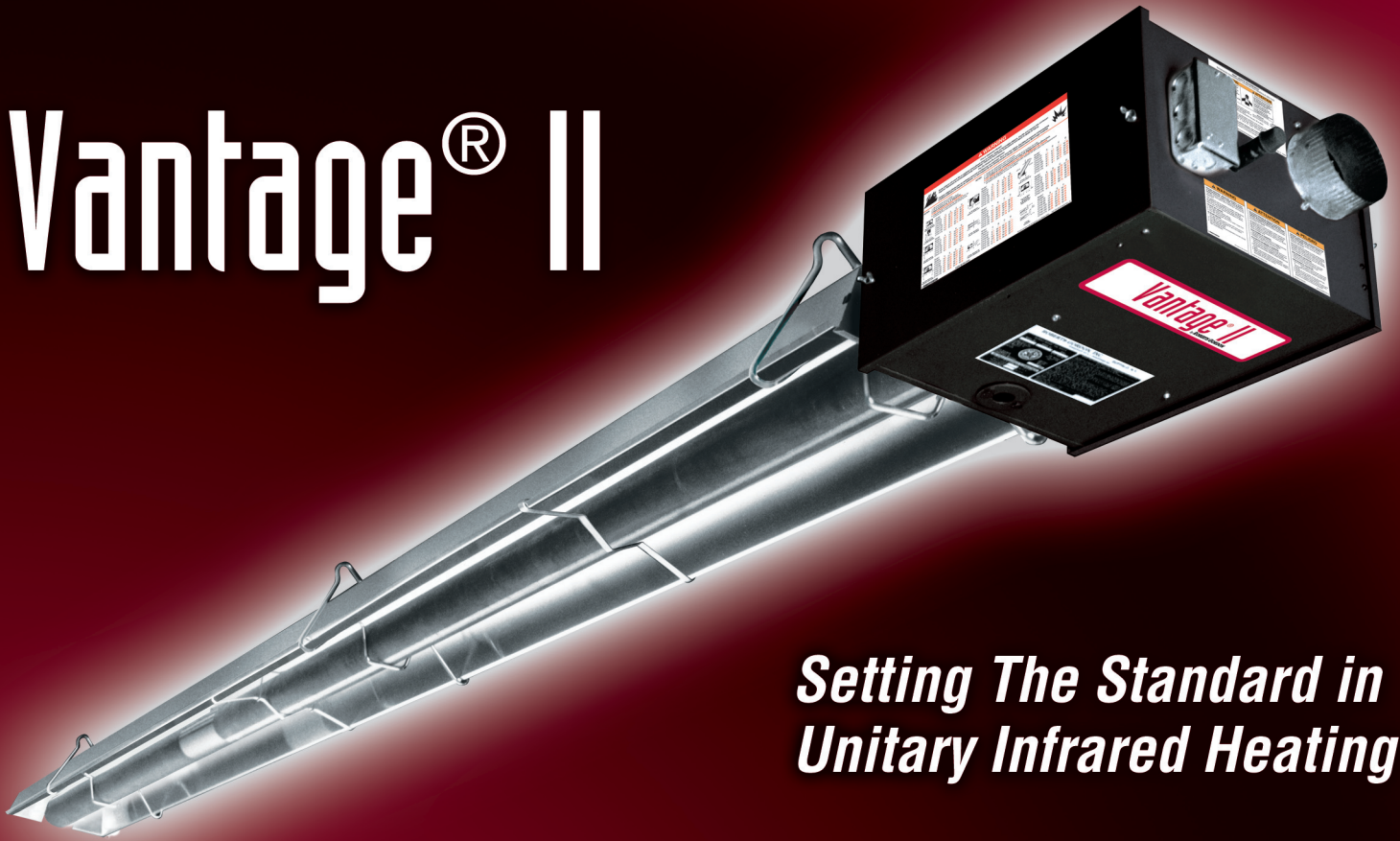




ROBERTS GORDON®

Vantage® II



Setting The Standard in Unitary Infrared Heating

- *Diagnostic capability incorporated in burner design*
- *Design flexibility achieved with straight, U-tube or L configurations and a broad range of burner sizes and tube lengths*
- *Years of field-proven product performance*
- *Burner box design with protective enclosure for controls minimizes exposure to dirt and moisture from combustion air*
- *Longer life provided by durable components*

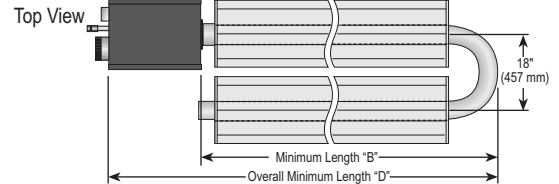
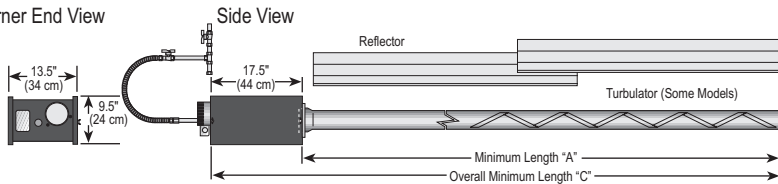
*Reduce Energy Use
By Up To
50%*

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Quality in Any Language™

Burner End View



VANTAGE® II

| Model | | CTH2-40 | CTH2-60 | CTH2-80 | CTH2-100 | CTH2-125 | CTH2-150 | CTH2-175 |
|---|------------|---------|---------|---------|----------|----------|----------|----------|
| Minimum Length of Straight Tube* | [ft] A | 10 | 20 | 20 | 30 | 40 | 50 | 60 |
| Minimum Length of U-tube* | [ft, in] B | N/A | 11.7 | 11.7 | 16.7 | 21.7 | 26.7 | 31.7 |
| Overall Minimum Length of Straight Tube | [ft, in] C | 11, 5.5 | 21, 5.5 | 21, 5.5 | 31, 5.5 | 41, 5.5 | 51, 5.5 | 61, 5.5 |
| Overall Minimum Length of U-tube | [ft, in] D | N/A | 13, 0.5 | 13, 0.5 | 18, 0.5 | 23, 0.5 | 28, 0.5 | 33, 0.5 |

| Input (Btu/h) x (1000) | | 40 | 60 | 80 | 100 | 125 | 150 | 175 |
|------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|
| Inlet Pressure | [in wc] NG min. | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 5 |
| | LPG Propane min. | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | NG & LPG Propane max. | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Gas Connection | NPT | ½" | ½" | ½" | ½" | ½" | ¾" | ¾" |

| Weights | | | | | | | | |
|---|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Overall Length of Tube and Accessory Packages | [ft] | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
| Hot Rolled or Aluminized Tube with Aluminum Reflector | [lb] | 52 | 86 | 120 | 161 | 206 | 240 | 281 |
| Aluminized Tube with Stainless Steel Reflector | [lb] | 66 | 113 | 152 | 208 | 265 | 304 | 360 |
| Burner | [lb] | 40 | | | | | | |
| Aluminized U-tube with Aluminum End Caps | [lb] | 19 | | | | | | |
| Aluminized U-tube with Stainless Steel End Caps | [lb] | 20 | | | | | | |

| | |
|------------------------|---|
| Fuel | NG or LPG Propane |
| Electrical Supply | 120 V, 60 Hz, 1 A (Run) 5 A (Start) |
| Heat Exchanger Tubing | 10 ft Sections, 4" dia, 16 Gauge, First 10 ft ALUMI-THERM® Steel Tubing [Remaining Hot Rolled, Heat Treated Aluminized or Double Porcelain Coated Steel Tubing] |
| Exhaust Flue | dia 4" |
| Reflector and End Caps | .024 Aluminum [Optional - .024 Stainless Steel Type 304] |
| Control System | Honeywell® SmartValve® II Combines Gas Valve and Hot Surface Electronic Ignition Control Fully Automatic, Four-Try, 100% Shut-Off, Prepurge, Auto Reset, LED Indicator Status |
| Approved As | Indoor (Vented or Unvented) |
| Certification | ANSI Z83.20/CSA 2.34, 2.17 |
| Warranty | Three-Year Limited (Refer to Installation, Operation and Service Manual for Details) |

*For additional lengths, please see the current Installation, Operation and Service Manual.

Clearances to Combustibles **[in]

| Model | | CTH2-40 | | CTH2-60 | | CTH2-80 | | CTH2-100 | | CTH2-125 | | CTH2-150 | | CTH2-175 | |
|------------|-----|---------|-----|---------|-----|---------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| Horizontal | 45° | Horiz. | 45° | Horiz. | 45° | Horiz. | 45° | Horiz. | 45° | Horiz. | 45° | Horiz. | 45° | Horiz. | 45° |
| | A | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 10 | 6 | 10 | 6 | 12 | 8 | 12 |
| | B | 27 | 8 | 35 | 8 | 38 | 8 | 40 | 8 | 46 | 8 | 50 | 8 | 52 | 8 |
| | C | 53 | 51 | 63 | 60 | 66 | 66 | 71 | 74 | 77 | 78 | 80 | 84 | 82 | 85 |
| | D | 27 | 46 | 35 | 54 | 38 | 60 | 40 | 64 | 46 | 69 | 50 | 74 | 52 | 79 |

**Clearances B, C and D can be reduced by 50% for locations 25 ft (7 m) 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 Installation, Operation and Service Manual.

Installation Code and Annual Inspections:

All installations and service of ROBERTS GORDON® equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Roberts-Gordon and conform to all requirements set forth in the ROBERTS GORDON® manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Roberts-Gordon recommends that a qualified contractor annually inspect your ROBERTS GORDON® equipment and perform service where necessary, using only replacement parts sold and supplied by Roberts-Gordon.

Further Information: Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through ROBERTS GORDON® representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

This product is not for residential use.

This document is intended to assist licensed professionals in the exercise of their professional judgment.

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