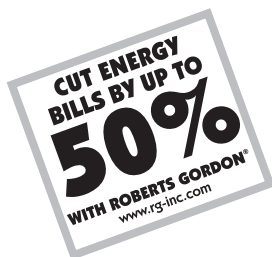


- Diagnostic capability incorporated in burner design
- Design flexibility achieved with straight, U-tube or L configurations and a broad range of burner sizes and tube lengths
- Years of field-proven product performance
- Burner box design with protective enclosure for controls minimizes exposure to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

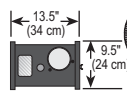
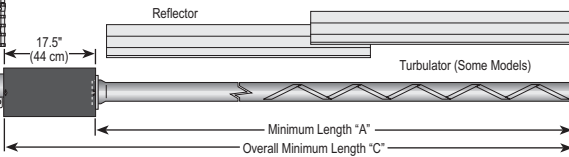
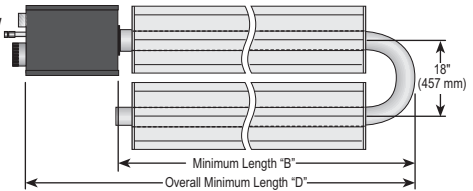
Vantage II[®]

Setting The Standard in Unitary Infrared Heating



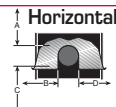
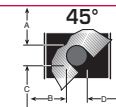
Quality in Any Language™



Burner End View

Side View

Top View

VANTAGE® II

| Model | | CTH2-40 | CTH2-60 | CTH2-80 | CTH2-100 | CTH2-125 | CTH2-150 | CTH2-175 |
|---|-----------------|--|-----------|-----------|------------|------------|------------|------------|
| Minimum Length of Straight Tube | (ft, in) 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 |
| Fuel | | Natural Gas (NG) or Propane Gas (LP) | | | | | | |
| Inlet Pressure | (in wc) NG min. | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 5 |
| | LP min. | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | | 14 maximum for NG & LP | | | | | | |
| Gas Connection | NPT | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 3/4" | 3/4" |
| 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 | | 4" dia | | | | | | |
| 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) | | | | | | |
| Weights | | | | | | | | |
| Burner | (lb) | 40 | | | | | | |
| 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 |
| U-Tube Packages | (lb) | | | | | | | |
| Aluminized Tube with Aluminum End Caps | | 19 | | | | | | |
| Aluminized Tube with Stainless Steel End Caps | | 20 | | | | | | |

Clearances to Combustibles* (in)

| Model | | CTH2-40 | CTH2-60 | CTH2-80 | CTH2-100 | CTH2-125 | CTH2-150 | CTH2-175 |
|---|---|---------|---------|---------|----------|----------|----------|----------|
|  Horizontal | 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 |
|  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, D can be reduced by 50% for locations 25 ft (7m) 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 VANTAGE® II Installation, Operation and Service Manual.

Installation Code: ROBERTS GORDON® 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 ROBERTS GORDON® North American independent distributors. Please contact us for any further information you may require, including the VANTAGE® II Installation, Operation and Service Manual.

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