

*Increased efficiency by
MODULATION*

*- adjustment of both fuel and
combustion air*

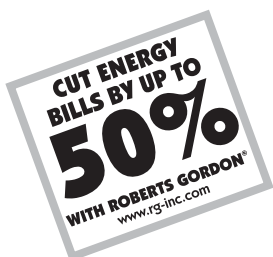


- Fuel efficient operation with fully automatic or manual control of burner modulation
- Efficient and optimum combustion throughout full range of burner inputs ensured by pre-programmed burner controls that adjust both fuel and air
- System information and ease of service provided by comprehensive on-board diagnostics for fault and system status
- Burner box design with protective enclosure for controls minimizes exposure to dirt and moisture from combustion air
- Longer life provided by durable components

Vantage®

MODULATING Patent Pending

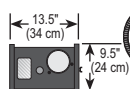
The Modulating Unitary Infrared Heater



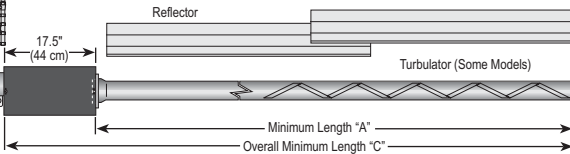
Quality in Any Language™



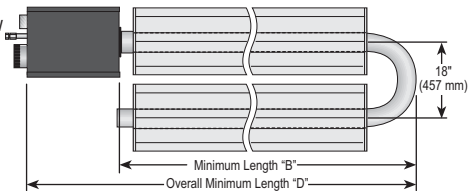
Burner End View



Side View



Top View



VANTAGE® MODULATING

Model		CTH3-80	CTH3-115	CTH3-150	CTH3-200
Minimum Length of Straight Tube*	(ft, in) A	20	30	40	50
Minimum Length of U-Tube*	(ft, in) B	11,7	16,7	21,7	26,7
Overall Minimum Length of Straight Tube	(ft, in) C	21,5.5	31,5.5	41,5.5	51,5.5
Overall Minimum Length of U-Tube	(ft, in) D	13,0.5	18,0.5	23,0.5	28,0.5
Minimum Input (Btu/h) x (1000)	(NG/LP)	52/55	75/78	100/105	130/135
Maximum Input (Btu/h) x (1000)		80	115	150	200 (NG)/190 (LP)
Fuel		Natural Gas (NG) or Propane Gas (LP)			
Inlet Pressure	(in wc) NG min. LP min.	5.5 12	5.5 12	5.5 12	6.0 12
Gas Connection	NPT	1/2"	1/2"	3/4"	3/4"
Electrical Supply		120 V, 60 Hz, 1.3 A (Run) 4.8 A (Start)			
Heat Exchanger Tubing		10 ft Sections, 4" dia, 16 Gauge, First 10 ft ALUMI-THERM® Steel Tubing (Remaining Heat Treated Aluminized Steel Tubing)			
Exhaust Flue		4" dia			
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, 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, 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)	20	30	40	50
Aluminized Tube with Aluminum Reflector	(lb)	86	120	161	206
Aluminized Tube with Stainless Steel Reflector	(lb)	113	152	208	265
U-Tube Packages	(lb)				
Aluminized U-Tube with Aluminum End Caps				19	
Aluminized U-Tube with Stainless Steel End Caps				20	

* For additional lengths, please see the current issue of the VANTAGE® MODULATING Installation, Operation and Service Manual.

Clearances to Combustibles* * (in)

Model		CTH3-80	CTH3-115	CTH3-150	CTH3-200
		Horiz. 45°	Horiz. 45°	Horiz. 45°	Horiz. 45°
	A	6 8	6 10	6 12	8 12
	B	38 8	46 8	50 8	52 8
	C	66 66	77 78	80 84	82 85
	D	38 60	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® MODULATING Installation, Operation and Service Manual.

Installation Code and Annual Inspections: All installations of ROBERTS GORDON® products must be performed by a contractor qualified in the installation and service of gas-fired heating equipment and conform to all requirements of all applicable governmental authorities pertaining to the installation and operation of the equipment.

For optimum performance and safety, Roberts-Gordon recommends that a qualified contractor annually inspect your ROBERTS GORDON® products and perform service where necessary, using only ROBERTS GORDON® replacement parts.

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® MODULATING Installation, Operation and Service Manual.

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