

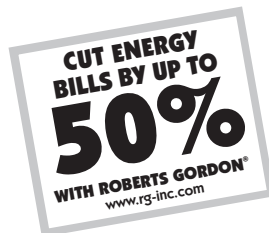
Vantage® NP

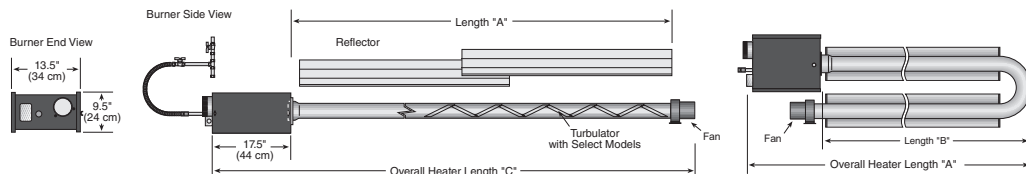
Negative Pressure Unitary Heaters and Multiburner Infrared Heating Systems



- Unitary heaters provide design flexibility with straight, U-tube or L configurations and a broad range of burner sizes and tube lengths
- Multiburner systems reduce building penetrations and installation cost as a result of multiple burners per pump
- Multiburner systems are custom engineered with a variety of zoning options
- Standard burner can be used for unitary heaters or heaters can be connected together to form a multiburner system of up to 1.6 million Btu/h
- Vacuum design with uniform tube temperature provides even heat distribution
- Minimal heat exposure to valuable electrical components provided by burner box design with protective enclosure for controls
- Longer life provided by durable components
- Heats effectively at high mounting heights and in high heat loss environments



Quality in Any Language™





		VANTAGE® NP							
Model		CTHN-40	CTHN-60	CTHN-80	CTHN-100	CTHN-125	CTHN-150	CTHN-175	CTHN-200
Unitary									
Minimum Length of Straight Tube*	[ft] A	10	20	20	30	40	40	50	50
Minimum Length of U-Tube*	[ft, in] B	11,6	11,6	11,6	16,6	21,6	21,6	26,6	26,6
Overall Minimum Length of Straight Tube*	[ft, in] C	12,3	22,3	22,3	32,3	42,3	42,3	52,5	52,5
Overall Minimum Length of U-Tube*	[ft, in] D	13,2	13,2	13,2	18,2	23,2	23,2	28,2	28,2
Multiburner									
Radiant Tube Length	[ft]	20	30	30	40	50	50	60	60
Manifold Length per Burner*	[ft]	See Installation, Operation and Service Manual.							
Distance from Burner to Elbow or U-Tube	[ft]	10	10	10	15	15	20	20	20
Elbows Allowed per Burner		2	2	2	2	2	2	2	2
Number of Burners per EP-100 Pump**	max.	4	4	4	4	4	3	2	2
Number of Burners per EP-200 Pump**	max.	6	6	6	6	6	5	4	4
Number of Burners per EP-300 Pump**	max.	16	16	14	12	12	10	8	8
*For additional lengths, please see the current Installation, Operation and Service Manual.									
** For altitudes of up to 2000' (610 m), consult Installation, Operation and Service Manual for higher altitudes.									
Input (Btu/h) x (1000)		40	60	80	100	125	150	175	200
Inlet Pressure	[in wc] NG min.	4.6	4.6	4.6	4.6	4.6	4.6	5	5
	LPG Propane min.	11	11	11	11	11	11	11	11
	NG & LPG Propane max.	14	14	14	14	14	14	14	14
Gas Connection	NPT	½"	½"	½"	½"	½"	¾"	¾"	¾"
Weights									
Overall Length of Tube and Accessory Packages	[ft]	10	20	30	40	50	60	70	80
Hot Rolled or Aluminized Tube with Aluminum Reflector	[lb]	52	86	120	161	206	240	281	322
Aluminized Tube with Stainless Steel Reflector	[lb]	66	113	152	208	265	304	360	416
Burner	[lb]	35							
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		Unitary Heater - 120 V, 60 Hz, 1 A for 40 - 150; 120 V, 60 Hz, 2 A for 175 & 200 Multiburner Heater - 120 V, 60 Hz, .1 A							
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	Unitary Heater - 4", Multiburner Pump - 4", 5" or 6"; See Installation, Operation and Service Manual for details.							
Reflector and End Caps		.024 Aluminum [Optional - .024 Stainless Steel Type 304]							
Control System		Fully Automatic, Three-Try, Direct Spark, 100% Shut-Off, Electronic Ignition Control							
Approved As		Unitary - Indoor (Vented or Unvented); Multiburner System - Indoor (Vented)							
Certification		ANSI Z83.20/CSA 2.34, 2.17							
Warranty		Three-Year Limited (Refer to Installation, Operation and Service Manual for Details)							

Clearances to Combustibles ***[in]

Model		CTHN-40		CTHN-60		CTHN-80		CTHN-100		CTHN-125		CTHN-150		CTHN-175		CTHN-200		
Horizontal	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	
		A	5	8	5	8	5	9	5	10	5	10	5	10	8	10	8	10
		B	20	4	27	4	30	4	32	4	35	4	39	4	44	4	47	4
		C	41	35	51	45	58	54	60	57	65	63	71	66	74	69	76	73
		D	20	43	27	45	30	55	32	56	35	58	39	61	44	68	47	71

***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® products must be performed by a contractor qualified in the installation and service of products 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® 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® representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

Roberts-Gordon, LLC

1250 William Street
P.O. Box 44
Buffalo, NY 14240-0044 USA
Telephone: 716.852.4400
Fax: 716.852.0854
Toll Free: 800.828.7450

European Office:

Roberts Gordon Europe Limited
Telephone: +44(0) 1902 494425
Fax: +44(0) 1902 403200

www.rg-inc.com

© 2006 Roberts-Gordon

All rights reserved. No part of this work covered by the copyrights herein may be reproduced or copied in any form or by any means – graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems – without written permission of Roberts-Gordon.

Printed in U.S.A.

CTHNSNA

5M 0406 Orig