

## **Unitary and Custom Designed Multiburner Systems**

- Negative pressure design with uniform tube temperature that provides a more even heat distribution than positive pressure heaters
- Heats effectively at high mounting heights and in high heat loss environments
- Robust burner housing with durable components boosts performance and increases longevity
- Can operate as a standalone unitary heater or multiple heaters can be connected to a common manifold pipe to form a Multiburner system
- Multiburner system reduces building penetrations and installation cost as a result of multiple heaters connected to a single vacuum pump







800.828.7450 www.robertsgordon.com

ROBERTS								ΑΤΙ	
Burner End View Burner Side View	Reflector		Ì			*			
← (30.7) →						180° U-tub	-	D. A. I	
8.5"	2						13cm)-High Effic 2cm)-Standard R		
(21.6 cm) ← 11.5"→ (29.2 cm)		Turbulator with Select Models	Fan Fan		.ength 'B'		ienty standard h	leneetor	
· · · ·	Overall Heater Length "C"			Overall Heater L	.ength "A">				
High Efficiency Reflector	Standard Reflector								
$\langle \circ \rangle$	$( \bigcirc )$								
20 7/16″	14 3/16″			BL	АСКНЕАТ™ СТ	HND			
Model (52 cm)	(36 cm)	CTHND-40	CTHND-60	CTHND-80			CTHND-150	CTHND-175	CTHND-2
Jnitary									
Ainimum Length of Straight Tube*	[ft] A	10	20	20	30	40	40	50	50
Ainimum 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
Nanifold Length per Burner*	[ft]	See Insta	lation, Operation	on and Service I	Manual.				
Distance from Burner to Elbow or U-Tube	[ft]	10	10	10	15	15	20	20	20
Ibows 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 curr				1					
* For altitudes of up to 2000' (610 m); cons	sult Installation, Operation		5		100	495	150	475	200
nput (Btu/h) x (1000)	C. INC	40	60	80	100	125	150	175	200
nlet Pressure	[in wc]NG min.	4.6	4.6	4.6	4.6	4.6	4.6	5	5
	LPG Propane min. NG & LPG Propane max.	11 14	11	11	11	11	11 14	11	11
Gas Connection	NG & LFG FIOparie max.	14	14	14	14	14	3/4"	14 	14 3⁄4"
Weights	INFI	/2	/2	/2	/2	72		-74	-7/4
-	and a strange the	10	20	30	40	50	60	70	80
Hot Rolled or Aluminized Tube and Ac	cessory Packages [ft]	10	20	50	40	50	60	70	80
High Efficiency Aluminum Reflector	[lb]	54	89	124	167	213	248	291	334
Standard Aluminum Reflector	[lb]	52	86	120	161	206	240	281	322
	[lb]			.20		200			
Burner	נמון	20							
J-tube Packages									
Aluminized U-tube for High Efficiency R	eflector [lb]	23							
Aluminized U-tube for Standard Reflecto		19							
	נטון וכ		G Propane						
Electrical Supply			leater - 120 V, 6	0 Hz 1 A					
			ner Heater - 12						
Heat Exchanger Tubing				Gauge, First 10	ft ALUMI-THER	M® Steel Tubing			
				Heat Treated Ali			J		
xhaust Flue	dia						eration and Ser	vice Manual for o	details.
Reflector and End Caps	ulu			al024 Stainles			2. actor: and Ser		
Control System				ry, Direct Spark			ition Control		
Approved As				d or Unvented);					
			.20/CSA 2.34, 2						
Certification		ANJI Z.O.I	.ZU/CJA Z.34. Z						

## Model CTHND-40 CTHND-60 CTHND-80 CTHND-100 CTHND-125 CTHND-150 CTHND-175 CTHND-200 Horizontal 45° Horiz. 45° A 5 8 5 8 5 9 5 10 5 10 5 10 8 10 8 12 В 20 4 27 4 30 4 32 4 35 4 39 4 44 4 52 10 С 41 54 96 35 51 45 58 60 57 65 63 71 66 74 69 85 D 43 27 30 55 32 39 79 20 45 56 35 58 61 44 68 52

\*\*\*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.

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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