

# ADDISON NP

## CTHN-SERIES NEGATIVE PRESSURE UNITARY HEATERS AND MULTIBURNER INFRARED HEATING SYSTEMS

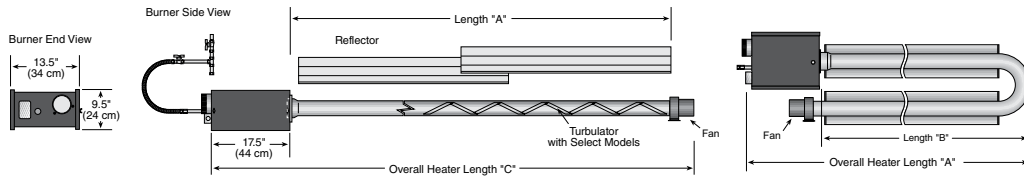
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- Unitary heaters provide design flexibility with straight, U-tube or L-configurations and a broad range of burner sizes and tube lengths
- Multiburner systems reduce building penetrations and installation cost as a result of multiple burners per pump
- 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

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<b>ADDISON™ NP</b>								
Model	CTHN-40	CTHN-60	CTHN-80	CTHN-100	CTHN-125	CTHN-150	CTHN-175	CTHN-200
<b>UNITARY</b>								
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
<b>MULTIBURNER</b>								
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 ft (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	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
<b>WEIGHTS</b>								
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 or Heat Treated Aluminized 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)							

<b>Clearances to Combustibles ***[in]</b>																		
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.

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**Installation Code and Annual Inspections:** All installation and service of ADDISON™ equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Addison and conform to all requirements set forth in the ADDISON™ manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Addison recommends that a qualified contractor conduct, at a minimum, annual inspections of your ADDISON™ equipment and perform service where necessary, using only replacement parts sold and supplied by Addison.

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

**These products are not for residential use.**

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

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