Catalog RTN-RTL-1/91

REZNOR®

LOW INTENSITY TUBULAR

INFRA-RED HEATER

Reznor Low Intensity Tubular Infra-Red Heaters are designed to provide both reduced energy costs and personal comfort heating.

REZNOR®

RTN/RTL TUBULAR LOW INTENSITY INFRA-RED HEATER WITH OPTIONAL U-BEND (NOT AVAILABLE IN ALL SIZES)

RTN/RTL TUBULAR LOW INTENSITY INFRA-RED HEATER

Reznor's tubular infra-red heaters harness infra-red rays similar to those of the sun. This energy form is similar to visible light, traveling so fast that it loses none of its heat energy to air. Infra-red energy can be reflected, focused or aimed with any reflective surface. When the infra-red energy strikes a non-reflective surface, it is absorbed and produces heat, thus, warming the surrounding air and providing comfort. Infra-red heat assures floor-level comfort with fuel savings up to 50%.

Description

Reznor, gas fired, tubular, low intensity, infra-red heaters Model RTN or RTL are designed to provide both reduced energy cost and personal comfort heating. Units are available for use with natural gas (RTN) or propane gas (RTL), as specified, in sizes 75,000, 100,000, or 125,000 BTUH gas input. Natural gas units are also available with 150,000 BTUH gas input. All units are designed for horizontal mounting. These units can be vented to the outside or unvented. They will operate on inside or outside combustion air. Heat is produced by infra-red rays, an energy form similar to visible light. This energy travels at 186,000 miles a second, in a straight line without loss of heat to the air. It can be aimed, reflected or focused and when absorbed by a solid object, heat is produced. Surrounding air is then warmed by conduction and convection. Infra-red heat assures floor-level comfort with fuel savings up to 50%.

These units have been designed-certified by the American Gas Association (AGA) and bear the AGA label.

HEAT LIKE THE SUN

Reznor Tubular Infra-Red

Heats like the Sun!

Reznor Tubular low intensity infra-red heat is produced by infra-red rays, an energy form similar to visible light. This energy travels at 186,000 miles a second, in a straight line without loss of heat to the air. It can be aimed, reflected or focused and, when absorbed by a solid object, heat is produced. Surrounding air is then warmed by conduction and convection.

The high efficiency and exceptional heating comfort of Reznor's tubular low intensity infra-red heating system is largely due to the design and superior reflectional efficiency of our reflector. 91.7% or 33 of 36 rays are directed to the floor, not back to the heating tube. This feature provides the benefit of directing the heat where it is needed, on your employees and equipment. This feature also makes this system highly efficient and cost effective.

Economical Features

Reznor's Tubular low intensity infra-red heating equipment provides the following efficient, economical features:

- Well-suited for both space and spot heating.
- Reduces heating costs up to 50% or more by heating people and equipment only.
- Low installation costs. Reznor Tubular Heaters are easily suspended from joists over aisles, near dock openings and from building superstructure. They can also be installed without direct venting.
- Can rotate reflectors to direct heat where you need it.

REZNOR®

Experience...sets us apart

Standard Features

System
- A.G.A. Design Certified
- Natural or propane gas
- 75,000; 100,000; 125,000; or 150,000 (natural gas only) BTUH input
- 20', 30', 40', 50' system lengths
- Vented or unvented operation
- Inside or outside combustion air
- Direct spark ignition—100% safety shutoff
- Intermittent blower with pre-purge cycle
- Straight, "L" or "U" shaped mounting
- Simple chain hanging arrangement
- Pre-assembled in 10' sections
- Electronic flame monitoring for safety
- Air pressure switch for air flow safety
- Three system monitoring lights
- Burner inspection sight glass
- Fixed air inlet orifice

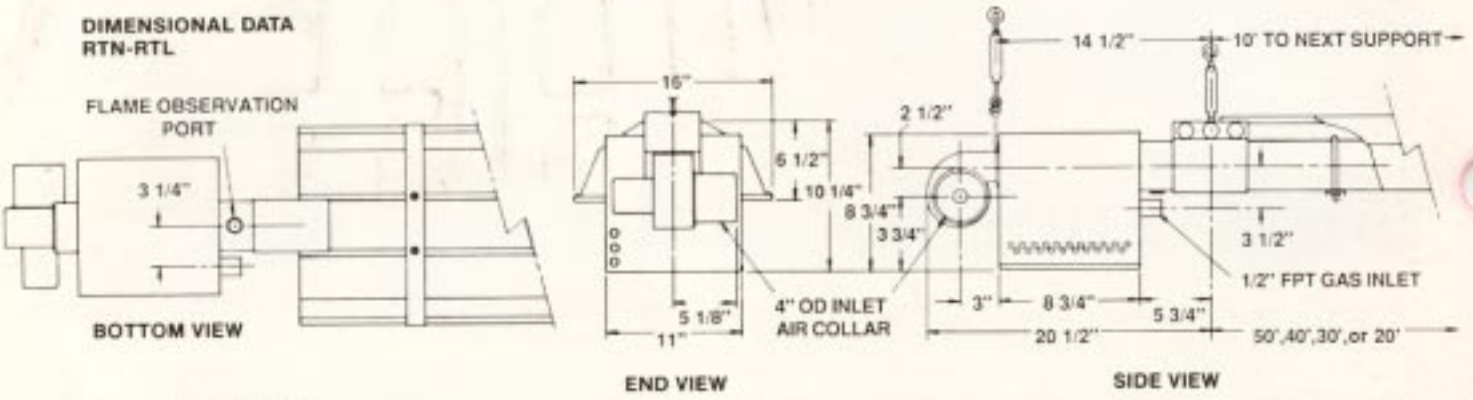
Heat Exchanger(s)
- 4" O.D. tubing x 10' long
- 12 gauge (0.109") black steel
- Spiral turbulator for increased efficiency

Reflectors
- Rotatable 0 to 30 degrees (patent #4319125)
- Scientifically designed for optimum infra-red dispersion
- Reflectional efficiency 91.7%
- Snap-in or snap-out without tools for easy removal

Combustion Chamber
- 4" O.D. tubing x 10' long
- 14 gauge (0.083") aluminized steel

Warranty
- 2 year limited warranty

DIMENSIONAL DATA
RTN-RTL



SPECIFICATIONS

MODEL	RTN/RTL 75-20★	RTN/RTL 75-30	RTN/RTL 75-40★	RTN/RTL 100-30	RTN/RTL 100-40★	RTN/RTL 100-50	RTN/RTL 125-40★	RTN/RTL 125-50	RTN 150-50
GAS INPUT - BTUH									
NAT-000's	75	75	75	100	100	100	125	125	150
LP -000's	75	75	75	100	100	100	125	125	
MANIFOLD PRESSURE									
NAT-WC	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"	5.0"	5.0"	5.0"
LP -WC	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"	5.0"	5.0"	5.0"
COMBUSTION CHAMBER	1	1	1	1	1	1	1	1	1
HEAT EXCHANGER(S)	1	2	2	3	3	3	4	4	4
CLEARANCES TO COMBUSTIBLES									
TOP OF REFLECTOR	12"	12"	12"	12"	12"	12"	12"	12"	12"
SIDES OF TUBE	30"	30"	30"	30"	30"	30"	36"	36"	48"
BELOW THE TUBE	60"	60"	60"	60"	60"	60"	72"	72"	82"
FOR AIR INLET -12" ALL DIRECTIONS FROM INLET. FOR SERVICE -12" ALL DIRECTIONS FROM BURNER.									
OVERALL LENGTH									
WITHOUT BURNER	20'	30'	40'	30'	40	50'	40'	50'	50'
WITH BURNER	22'	32'	42'	32'	42	52'	42'	52'	52'
NET WEIGHT - LBS.	160	215	275	215	275	335	275	335	335
SHIPPING WEIGHT - LBS.	200	270	320	270	320	390	320	390	390
GAS INLET PRESSURE: NAT MINIMUM 6" WC NAT MAXIMUM 14" WC LP MINIMUM 11" WC LP MAXIMUM 14" WC									

★Available in "U" bend configuration.

WARNING: This appliance is not certified for operation above 4,000 ft. elevation.

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