SPACE-RAY®

Radiant Gas Tube Heaters

CTA/CTS Pull Through Series

New Cold Air Stopper Option. Improves heating efficiency by preventing cold air during winter (warm air during summer) from entering your poultry house when the heating system is off.

Our Angle Is On Performance

- An Energy Efficient Radiant Heating System That Saves Fuel, Reduces Maintenance, And Permits Higher Mounting
- Unique Pull Through System For Greater Safety And More Even Tube Temperatures
- Calorized Aluminized Steel Emitter Tubes* For Corrosion Resistance And Greater Radiant Output
- Heavy-duty Cast Iron Burners For Long Life
- Unique Diagnostic Monitoring Lights Show When Heater Is Operating And Assists With Fault Diagnosis
- Tube Lengths From 30' To 50' & BTU Input Ratings From 80,000 To 125,000 BTU/Hr.
- Can Be Used In A Vented Or Indirect (Unvented) Mode. Available In Either Natural Or Propane Gas Models.

The Original Radiant Gas Tube Heater

At Space-Ray we designed the original unitized radiant tube heater over 40 years ago. Now, we have designed a radiant tube heater specifically for the poultry industry. Our emphasis was then, as it is today, on quality and fuel efficient performance. Performance you can rely on. When it comes to product reliability and fuel efficient operation, Space-Ray equipment has withstood the test of time.

Powerful And Fuel Efficient Radiant Heat

Space-Ray Radiant Gas Tube Heaters operate using the same principle as the sun. Before heating the air, radiant warmth is delivered directly to the birds and litter area where it's needed most. This warmth at floor level helps to dry out the litter area and keep ammonia levels lower. It will also create a thermal reservoir in the litter area, trapping and recycling the heat to save fuel. The self-enclosed draft inducer pulls products of combustion through the combustion chamber, providing a more even tube temperature, increasing efficiency and safety. The draft inducer motor is totally enclosed, sealed and permanently lubricated for long life.

Available With The New Optional Cold Air Stopper™

Space-Ray's innovative Cold Air Stopper™ stops cold or hot air from entering the poultry house when the heaters are not in operation. This unique, patent-pending damper system inserts on the inlet side of the fresh air duct system.

When the heater's draft inducer starts, the Cold Air Stopper™ automatically opens to allow the introduction of fresh air for combustion. When the heater turns off, the Cold Air Stopper closes to prevent frigid air from being pulled into the poultry house, increasing the system's efficiency. The system can also stop sweating problems that can often plague tube heater control boxes. This condensation can not only drop onto the bird litter below, but reduce the life of the heating system. During summer, when the heaters are not in operation, the system can also prevent hot air from entering through the heater from outside.

*The first 10' of all Model CTS tube heaters utilize calorized aluminized steel tubing. Calorized aluminized steel in all tube lengths is available as an option.

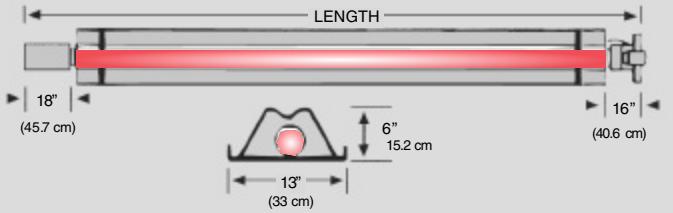
CTA/CTS SERIES TUBE HEATER TECHNICAL DATA

MODELS	BTU/HR INPUT	TOTAL EMITTER TUBE LENGTH kW	30 FT	40 FT	50 FT
CTA/CTS 80	80,000	23.4	●		
CTA/CTS 100	100,000	29.3	●	●	
CTA/CTS 125	125,000	36.6		●	●

GAS TYPE	BURNER PRESSURE	SUPPLY PRESSURE MIN	MAX	IGNITION VOLTAGE	AMPS	TYPE
NATURAL	3.5" W.C. 8.7 mbar	5" W.C. 12.5 mbar	14" W.C. 34.9 mbar	120 VAC 60 HZ	2.6	DIRECT SPARK
PROPANE	10" W.C. 24.9 mbar	11" W.C. 27.4 mbar	14" W.C. 34.9 mbar			

Note: For all installations higher than 2000 ft. above sea level, please consult the factory regarding recommended derating of heaters.

CTA/CTS STRAIGHT TUBE HEATER



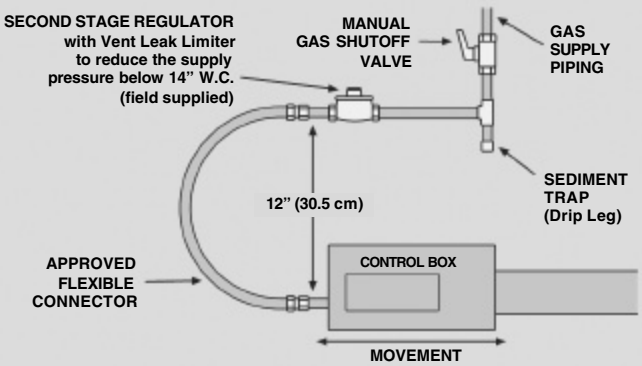
MODEL	TOTAL TUBE LENGTH	OVERALL DIMENSION "L"
CTA/CTS 80/100	30' / 9.14 m	32'9" / 9.98m
CTA/CTS 100/125	40' / 12.19m	42' 9" / 13.03m
CTA/CTS 125	50' / 15.24m	52' 9" / 16.08m

POULTRY TUBE HEATER ACCESSORIES

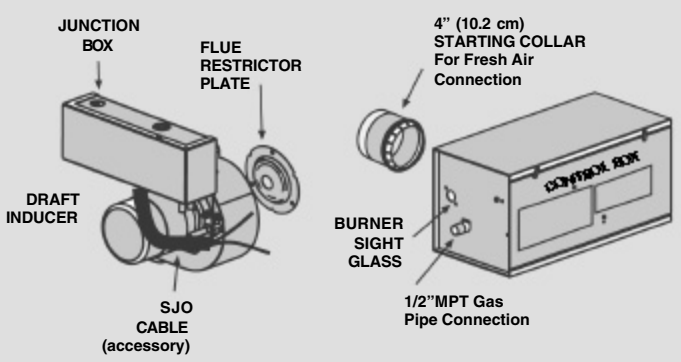
Ceiling Fresh Air Kit & Poultry Tube Heater Accessories

These accessories are included with every ceiling mounted Space-Ray Tube Heater as standard equipment. Pictured above are "S" hooks, exhaust hood, flexible gas connector and manual shut-off valve and the unique all metal fresh air intake. Also included but not shown are the wire hangers and end reflectors.

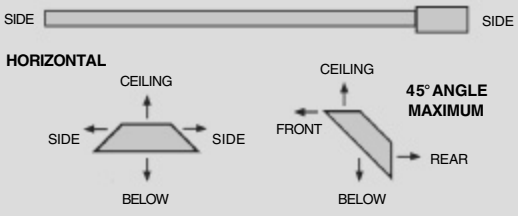
TYPICAL GAS CONNECTION – SIDE VIEW



CTA/CTS DRAFT INDUCER & CONTROL BOX



MINIMUM CLEARANCE TO COMBUSTIBLES



MODEL NO.	SIDE	CEILING*	BELOW	END	45° FRONT	45° REAR
CTA/CTS 80/100	52"/132 cm	12"/31 cm	84"/213 cm	30"/ 76 cm	52"/132 cm	12" /30 cm
CTA/CTS 100/125	66"/167cm	12"/31 cm	88" /224 cm	40" /102 cm	66" /167 cm	20" /51 cm
CTA/CTS 125	66" /167 cm	12"/31 cm	101" /257 cm	40"/102 cm	66" /167 cm	20" /51 cm

*When used in a vented mode, clearance to the ceiling from top of the reflector may be reduced to 6" (15 cm) on all models. If optional corner or U-Bend reflectors are not used, clearance must be 18" (46.7 cm) to center.
Note: Consult factory if reduced clearances are required.

FOR YOUR SAFETY

OPERATE SPACE-RAY HEATERS WITH PROPER CARE AND OBSERVE ALL SAFETY PRECAUTIONS. Installation and service must be performed by a licensed contractor. The installation must conform to local codes. In the absence of local codes, the installation must conform with the National Fuel Gas Code ANSI Z223.1 (latest edition also known as NFPA 54) or CGA B 149 installation codes (latest edition). These codes are available from the National Fire Protection Association, Inc., Batterymarch Park, Quincy, MA02269 (www.nfpa.org) or contact CSA at 1-800-463-6727.

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Space-Ray strives to improve quality and performance on a continuing basis and reserves the right to change specifications and materials without notice.