Product Overview



ENERGY EFFICIENT HEATING SYSTEMS









Introduction

ENERGY EFFICIENT HEATING SYSTEMS

About us

As one of the world's leading manufacturers of gas fired radiant heaters, AmbiRad's mission is to continue the development of its world class status in providing energy efficient heating solutions.

The company strategy is to meet the needs of industrial and commercial customers worldwide through a supply based service to contractors, specifiers and facilities managers.

AmbiRad radiant heating is among the most environmentally friendly heating solutions on the market, greatly assisting industry and commerce in improving their overall energy performance and making a significant contribution to achieving compliance with the LEED (Leadership in Energy and Environmental Design) green building rating system, which encourages the adoption of green building practices.



Reduced Operating Cost

With today's ever-increasing world-market competition, corporations must continually find ways to reduce operating costs, especially as gas prices have risen dramatically. Radiant heat achieves this because it:

- · Supplies heat to occupied levels
- · Heats the 'work zone' not the ceiling
- Reduces transfer of heat from the building envelope
- Speeds recovery when using open doors
- Delivers savings of 30% 40% and even up to 70% in certain applications
- Often significant electrical savings
- Lowers maintenance and service contract costs

Solutions that can reduce fuel costs by up to 70%



Radiant Heating

Working in the same way as the sun, radiant heat warms all solid objects and surfaces in its path through electromagnetic waves. Being mounted overhead, AmbiRad radiant heaters produce infrared heat that is directed downwards to low level by a reflector.

Radiant heat:

- Is emitted by a hot surface
- Travels in straight lines
- · Passes through the air without heating it
- Is absorbed by cooler solid objects on which it falls
- Effective in extremely high ceiling applications



Universal Application

The flexibility of design provided by AmbiRad products ensures their suitability and competitiveness in wide ranging applications, from traditional environments such as large, high bay, high air change industrial and commercial buildings, together with smaller scale facilities such as auto service bays and workshops.



Loading dock areas



Air hangars



Auto service bays



Warehouses



Sports facilities



Factories



Greenhouses

PRODUCT SELECTION GUIDE											
Model		Radiant Efficiency	Thermal Efficiency	Type of Brackets	Reflector Materials	Tube Materials	Venting				
VPLUS		Medium	Medium	Wire		Stainless Steel	One to two heaters				
VS	Standard	Medium	Medium	Bolt in place		Hot or cold rolled steel	One to two heaters				
	Herringbone	Medium	Medium	Bolt in place	Aluminum	ThermaSteel	Up to 10 heaters per vent				
VSX		Very High	Very High	Bolt in place	Stainless Steel	, iuminizou	One to two heaters				
ARC	Standard	Medium	High	Wire or		As above, plus	Up to 35 heaters				
	Modulating	Medium	Very High	bolt in place		schedule 40 iron pipe	per vent				

Vision Range

VISION RADIANT TUBE HEATING SYSTEMS

Introduction

Renowned for its pioneering track record, AmbiRad, a leading supplier of radiant tube heating systems, has yet again raised the industry standard in terms of innovation and technical performance.

The new range of high efficiency Vision radiant tube heaters delivers exceptional performance in terms of efficiency and the potential to reduce energy costs.

The cornerstone of this exciting new development has been the introduction of a new high efficiency advanced burner.



Features

- Peak flame temperatures are reduced, resulting in 40% reduction in NOx levels (55ppm on certain models)
- Virtually no combustion noise 15dB(A) lower than typical standard tube heaters at 47dB(A)
- New slim-line burner head provides a long evenly distributed flame that is 4 to 5 times longer than standard tube heaters
- All units require minimal maintenance



VS Range - Herringbone

Herringbone systems are specifically designed to suit individual building requirements; they can incorporate up to ten U tube or linear heaters on one exhaust manifold. The exhaust manifold may be terminated through the roof or wall.



The particular benefits of herringbone systems are:

- U tube, straight or double straight models can be arranged in virtually any configuration
- Optimized energy efficiencies
- All units share a common internal vent thereby raising efficiency within the building
- Common exhaust fan for 2-10 heaters
- Aluminum or porcelain corrosion resistant manifold
- Minimum vent penetration
- Zone control flexibility
- Quieter operation



VPLUS Model Range

Vision VPLUS heaters are available in straight line and U tube configurations, with burner ratings ranging from 40,000 to 225,000 BTUs.



TECHNICAL DATA											
Model		VPLUS40	VPLUS60	VPLUS80	VPLUS100	VPLUS125	VPLUS150	VPLUS170	VPLUS200	VPLUS225	
Nominal gross heat input (natural gas)	Btu/h	40,000	60,000	80,000	100,000	125,000	150,000	170,000	200,000	225,000	
Dimensional & weight data											
Length – U tube, min/max	ft	20	20/40	20/40	40	40/60	40/60	60/80	60/80	60/80	
Length - straight line, min/max	ft	10/30	20/40	20/40	30/50	40/60	40/70	50/80	50/80	50/80	
Total installed weight, min/max	lbs	66/153	110/199	110/199	153/244	199/289	199/328	244/372	244/372	244/372	

VS Model Range

The VS range is available in U tube, single linear and double linear models with burner ratings ranging from 40,000 to 200,000 BTUs.



TECHNICAL DATA											
Model		VS40	VS60	VS80	VS100	VPLUS125	VS150	VS170	VS200		
Nominal gross heat input	Btu/h	40,000	60,000	80,000	100,000	125,000	150,000	170,000	200,000		
Dimensional & weight data											
Length – U tube, min/max	ft	12/18	18	18	20	20	25	25	25		
Length - straight line, min/max	ft	20/30	20/40	20/40	30/50	40/60	40/70	50/80	50/80		
Total installed weight, min/max	lbs	110/154	110/199	110/199	153/244	199/289	199/328	244/372	244/372		

Vision Range

VSX HIGH EFFICIENCY RADIANT TUBE HEATING SYSTEMS

VSX Model Range

The high efficiency VSX range offers versatility and performance that will be the benchmark for the future of radiant heating. Ratings from 60,000 to 155,000 BTUs.



Features

- The inclusion of a recuperative heat exchanger and double skin reflector on VSX models (patent 11/882880) increases thermal efficiencies to 90% and radiant efficiency up to 65%
- Fuel savings as great as an additional 20% can be achieved when compared to two stage or standard radiant tubes

Standard radiant heater



AmbiRad Vision





The combination of the double skin reflector and heat exchanger greatly increases radiant output.

Highest radiant efficiency

TECHNICAL DATA											
Model		VSX60	VSX90	VSX115	VSX140	VSX155					
Nominal gross heat input	Btu/h	60,000	90,000	115,000	140,000	155,000					
Dimensional & weight data											
Length – U tube	ft	14	14	20	20	26					
Total installed weight	lbs	252	252	349	349	452					

ARC Series

CONTINUOUS RADIANT TUBE HEATING SYSTEMS

Model Range

The ARC Series continuous radiant tube heating system includes six natural gas or propane burner models from 41,000 to 157,000 Btu/h.



Features

- In-line fuel efficient burners (inputs between 41,000 - 157,000 Btu/h)
- Common vacuum fan operation
- Stoichiometric or 'perfect' combustion
- Up to 92% combustion efficiency
- Modulation option available
- Rapid heat-up times
- Low running costs. Savings of up to 70% of fuel costs can be achieved
- · Good aesthetic integration with building
- Minimal vent penetrations single vent system. Up to 1,500,000 Btu/h per single vent location
- Capable of running five burners in one radiant branch
- Widest range of burner inputs for any continuous system
- Uniform distribution of heat

Fully modulating ARC system

The standard ARC radiant heating system operates with on/off control. As an option it is now possible to control the ARC system using modulation. Any heating system utilizing on/off control uses the maximum capacity of the heating system to heat the building at all times, even when only a small proportion of the system capacity is required to maintain temperature. This can result in building temperature 'overshoot', lower comfort conditions and higher fuel usage with frequent burner cycling. Utilizing modulation control with burner outputs varying between 60% - 100% of the maximum burner rating will reduce heater cycling, maintain tight temperature control and give improved comfort and lower heating bills.



TECHNICAL DATA							
Burner Model		ARC12LR	ARC18LR	ARC24LR	ARC32LR	ARC38LR	ARC46LR
Input rating	Btu/h	41,000	61,000	82,000	109,000	130,000	157,000
Gas consumption Natural gas	ft³/h	40.5	60.8	81.1	106.4	126.4	153.0

AmbiRad solutions in practice

The selection of an appropriate heating design is dependent on the nature and requirements of the specific building concerned. Our expertise ensures that the ideal solution is found for each particular situation.

AmbiRad has successfully installed energy efficient heating systems in a multitude of applications, bringing the benefit of energy savings to thousands of businesses worldwide.

For further information visit www.ambirad.com/us



Customer Service and Design

For your support, AmbiRad radiant heating systems are backed by in-house engineering and technical staff, along with a team of regional distributors. This comprehensive customer service package includes Computer-Aided Design (CAD), building heat loss/fuel cost calculations, on-site support, training and system start-up.

Solutions that take heating efficiency to a new level

AmbiRad develops and manufactures high quality, environmentally friendly, energy and cost-efficient heating systems, operating on either natural gas or LPG. All products are certified to BS EN ISO 9001:2000 accreditation, tested and approved to the prevailing standard for particular worldwide markets.







S An AmbiRad Group brand



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