REZNOR®

Trusted Heating Solutions

Vision

Radiant Tube Heating Systems







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

VSX models are 12 % more efficient than standard radiant tube heaters.

Model Range

- The high efficiency VSX range, with recuperative heat exchanger, which is available as a 'U' tube model
- The VS range, complete with aluminised steel reflectors and endcaps, is available in 'U' tube, single linear and double linear models and can be mounted in linear or U tube herringbone configurations

Optimum economy and fuel savings

• The elimination of both distribution and standby losses coupled with high

- operational efficiencies at the point of use enable fuel savings of up to 65% compared with conventional heating systems
- Excellent radiant performance. More
 of the available heat generated is
 distributed to floor level thereby
 improving efficiency and reducing
 energy consumption

Additional control at the touch of a button

All models are suitable for use with a SmartCom control panel. SmartCom units incorporate a host of features such as self learning optimised start-up to ensure

Features & Benefits

Features:

- Choice of burner ratings from 15 to 50kW
- NO_x emissions as low as 30ppm on certain models - 60% lower than standard radiant heaters
- Combustion occurs entirely within the firing tube. Not only does this reduce the size and weight of the traditional burner control housing but it also helps to reduce noise levels (as quiet as 47 dB(A) 3m field)
- All units CE approved

- New slim-line burner head provides a long evenly distributed flame that dramatically improves temperature distribution along the entire length of the heater, delivering a more even floor coverage
- The inclusion of a recuperative heat exchanger on VSX models (patent P308150GB), mounted adjacent to the burner housing, significantly increases thermal efficiencies up to 91% and enhances radiant efficiency above 65%.

Benefits:

Easy to install and maintain

All units require straightforward annual maintenance



SmartCom³ control panel



Radiant black bulb sensor



increased comfort and energy savings.

SmartCom controls allow heating efficiency credits of up to 2.5% to be claimed towards the effective heat generator seasonal efficiency as defined in the UK Non-Domestic Building Services Compliance Guide

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, Reznor radiant heaters produce infrared heat that is directed downwards to low level by a reflector.

Infrared energy passes inertly through the air, dissipating as heat upon contact with people and surfaces thus creating a comfortable, all-round radiant warmth at lower air temperature. This reduces wasteful heating of empty space and makes substantial energy savings over conventional boiler and air systems.

Universal Application

Radiant heating has traditionally been predominant in industrial and commercial buildings, especially where there are large, high bay areas or where there are a high number of air changes within the environment.

Vision has been developed with these markets in mind and with a view to making radiant heating truly competitive within new smaller industrial and commercial buildings.

Its application is universal including environments with high air change, frequently opened doors, or where there is a need for zonal heating in very large premises.

The highly efficient performance of Vision provides greatly reduced running costs and improved capital payback, setting new industry standards.

Vision Applications

- Aircraft hangars
- Automotive workshops and showrooms
- Factories
- Retail outlets
- Sports arenas and halls
- Warehouses
- Workshops



Herringbone Configuration

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:

- Optimised energy efficiencies
- All units share a common internal flue thereby raising efficiency within the building

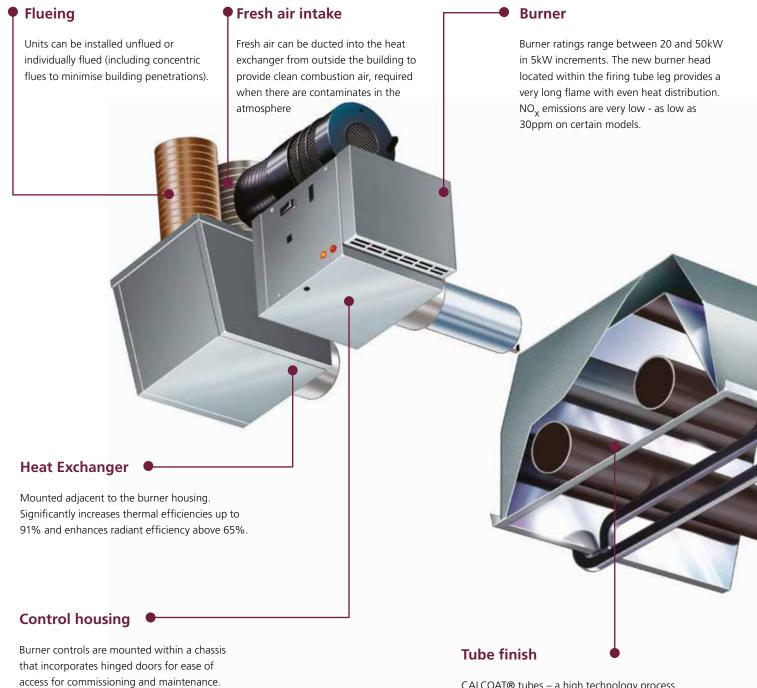
- Uniform heat distribution within the space being heated
- Improved aesthetics and minimal risk of water ingress - only one penetration of the building is required to enable the products of combustion to be expelled
- Universal application they are ideal for both new build and older premises (in particular where penetration of an asbestos roof is an issue)





Specification

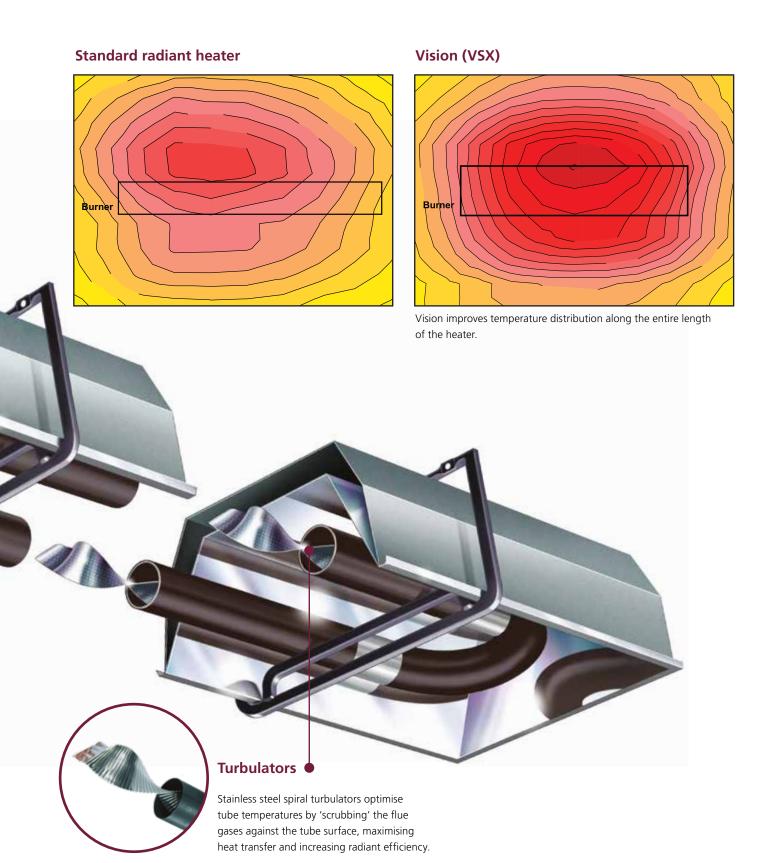
VSX model



Compact sizes

VSX heaters are now shorter than the VS equivalent heaters. The heat exchanger allows them to be compact radiant tube heaters.

CALCOAT® tubes – a high technology process that applies a tough, dense, highly emissive surface both inside and out that eliminates the need for painting. As a result CALCOAT® ensures a long lasting surface that will not rust or flake, protects welds and maintains the highest of emissivity factors throughout the entire life of the heater.





Technical Data - All Models						
Gas supply	Connection 1/2 " BSP internal thread					
Electrical supply	230 volt 1 phase 50Hz					
Current rating	1.0 amp max (inductive)					
External fuse rating	3 amp external					
Ignition	Electronic programme start up with spark ignition					
Exhaust flue - twin wall diameter	125 mm (5")					

Vision U Tube Models (induced burner) VSUTE

Technical Data												
Model			VS15UTE	VS20UTE	VS25UTE	VS30UTE	VS35UTE	VS40UTE	VS45UTE	VS50UTE		
Nominal gross heat input		kW	15.0	19.5	23.5	32.0	36.0	40.0	44.0	48.0		
Nominal gas rate per burner	Nat gas (G20)	m³/h	1.4	1.9	2.3	3.1	3.4	3.8	4.2	4.6		
	Propane (G31)	l∕h	2.1	2.7	3.3	4.5	5.0	5.6	6.1	6.7		
Dimensional & weight data												
Length		mm	4542	51	68	76	44	8512 9304		04		
Overall height		mm		253				283				
Overall width	Overall width			710				805				
Total installed weight	Total installed weight			64	64	127	127	140	154	154		
Recommended mounting heigh	ht For mounting	heights	eights above or below those specified contact technical sales									
Horizontal	Horizontal		4 to 5	4.5 to 7	5 to 8	5.5 to 9	6 to 10	6.5 to 11	7 to 12	7.5 to 13		
Minimum Clearance Dista	ances To Comb	ustib	le Surface	s								
Model			VS15UTE	VS20UTE	VS25UTE	VS30UTE	VS35UTE	VS40UTE	VS45UTE	VS50UTE		
Above reflector VS models		mm	All models 180									
Above burner & fan assembly f	lued	mm	All models 500									
Beneath tubes m		mm	1500		20	000	2100					
To the sides m		mm	300 480 800									
Horizontally from fan outlet un	flued	mm	n All models 1200									
End of the heater to the wall			All models 100									

Vision Recuperative Heat Exchange U Tube Models (forced burner) VSX - Natural Gas Only

Technical Data											
Model		VSX20 UTE2M	VSX25 UT2EM	VSX30 UT2EM	VSX30 UTE3M	VSX35 UTE3M	VSX40 UTE3M	VSX45 UTE3M	VSX45 UTE4M	VSX50 UTE4M	
Nominal gross heat input	kW	20.0	25.0	30.0	30.0	36.0	40.0	44.0	44.0	49.5	
Nominal gas rate per burner	m³/h	1.9	2.4	2.9	2.9	3.4	3.8	4.2	4.2	4.7	
Dimensional & weight data											
Length	mm		4047			59	27		76	7692	
Overall height	mm	All models 450									
Overall width	mm	All models 746									
Total installed weight	kg	114 158 205						05			
Recommended mounting height For moun	ting he	ights above	or below	those spec	ified please	contact te	chnical sale	s			
Horizontal	m	4.5 to 7	5 to 8	5.5 to 9	5.5 to 9	6 to 10	6.5 to 11	7 to 12	7 to 12	7.5 to 13	
MINIMUM CLEARANCE DISTANCES TO COM	BUSTII	BLE SURFA	CES								
Above reflector	mm				Д	II models 1	00				
Above burner & heat exchanger assembly	mm	All models 500									
Beneath tubes	mm	2300 2500									
To the sides	mm	All models 1300									
Horizontally from heat exchanger outlet unflued	mm	All models 1200									
End of the heater to the wall	mm	All models 700									



Vision Linear Models VSLIE

Technical Data											
Model			VS15LIE	VS20LIE	VS25LIE	VS30LIE	VS35LIE	VS40LIE	VS45LIE	VS50LIE	
Nominal gross heat input		kW	15.0	19.5	23.5	32.0	36.0	40.0	44.0	48.0	
Nominal gas rate per burner	Nat gas (G20)	m³/h	1.4	1.9	2.3	3.1	3.4	3.8	4.2	4.6	
	Propane (G31)	Vh	2.1	2.7	3.3	4.5	5.0	5.6	6.1	6.7	
Dimensional & weight o	lata										
Standard length (Nominal)		m	8	10.5	8	10.5	10.5	13.5	13.5	13.5	
Total installed weight (Standard	d length)	kg	53	72	53	103	103	126	126	126	
Extended length option (Nominal)		m	-	-	10.5	13.5	13.5	16	16	16	
Total installed weight (Extended length) k		kg	-	-	72	126	126	147	147	147	
Overall height mm			All models 242								
Overall Width		mm	376 570								
Recommended mounting	ig height For	mounti	ounting heights above or below those specified contact technical sales								
Horizontal		m	4 to 5	5 to 7	5 to 7	5 to 9	5 to 11	5 to 11	6 to 12	7 to 13	
Minimum Clearance Dis	tance To Com	bustik	le Surfac	es							
Above reflector VSLIE models		mm	All models 150								
Above burner mm			All models 500								
Beneath tubes mm		150	00	1700	2100						
To the sides mm			All models 750								
Horizontally from heater outlet unflued mm			All models 1200								
End of the heater to the wall mi			All models 500								

Vision Standard Double Linear Models VSDLE

Technical Data											
Model	VS15DLE	VS20DLE	VS25DLE	VS30DLE	VS35DLE	VS40DLE	VS45DLE	VS50DLE			
Total nominal gross heat input both burners kW			30.0	39.0	47.0	64.0	72.0	80.0	88.0	96.0	
Total nominal gas rate	Total nominal gas rate Nat gas (G20)		2.8	3.8	4.6	6.2	6.8	7.6	8.4	9.2	
	Propane (G31)	l∕h	4.2	5.4	6.6	9.0	10.0	11.2	12.2	13.4	
Dimensional & weight	t data										
Standard length (Nominal) m		16	21	16	21	21	27	27	27		
Total installed weight (standard length) kg		106	144	106	206	206	252	252	252		
Extended length (Nominal) m		-	-	21	27	27	32	32	32		
Total installed weight (extended length) kg			-	-	144	252	252	294	294	294	

Other products in the Reznor range:-

- Warm air heaters
- Air curtains
- Destratification fans
- Heating & ventilation units
- Packaged rooftop units
- Air induction systems
- Gas fired heater modules
- Evaporative cooling

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