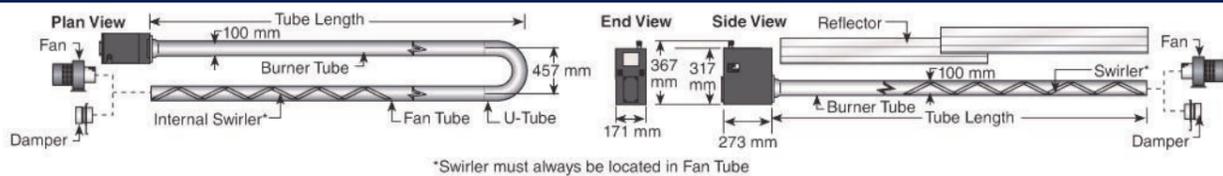


## Technical Specifications



\*Swirler must always be located in Fan Tube

Model	Blackheat® U-Tube*								Blackheat® Linear*							
	BH15UT	BH20UT	BH25UT	BH30UT	BH35UT	BH40UT	BH45UT	BH50UT	BH15ST	BH20ST	BH25ST	BH30ST	BH35ST	BH40ST	BH45ST	BH50ST
Input [kW]	15	20	25	30	35	40	45	50	15	20	25	30	35	40	45	50
Overall Length* [mm]	3822	5346	5346	6870	6870	6870	8394	8394	6661	9709	9709	12757	12767	12767	15815	15815
Weight [kg]	39	54	54	65	65	66	96	96	41	55	55	68	68	68	81	81
Gas Consumption [m <sup>3</sup> /h]**																
Natural [G20]	1.4	1.9	2.4	2.9	3.4	3.8	4.3	4.8	1.4	1.9	2.4	2.9	3.4	3.8	4.3	4.8
ULPG [G31]	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9
Fuel	NG or ULPG Propane or Butane															
Inlet Pressure [kPa]	AGA Approval #6399															
NG min.	1.13															
ULPG min.	2.75															
NG & LPG max.	5															
Gas Connection [ISO 7-Rc]	½"															
Electrical Supply	230 V, 50 Hz, 1Φ, 1A															
Heat Exchanger Tubing	3m Sections, 100mm dia, 16 Gauge, First 3m Aluminised Steel Tubing (Remaining Heat Treating Aluminised Mild Steel Tubing)															
Exhaust Flue [opt] OD[mm]	100															
Reflector and End Caps	NS3H14 Aluminium (or 1.4016 2R Stainless Steel as Option)															
Ignition	Fully Automatic, Single Try, Direct Spark, 100% Shut Off Ignition Flame Rectification Module, Volatile Lock-Out															
Approved As	Flueless or Flued															
CE Standard	EN 416															
Accessories	Optional Lockout Indication (Volt Free Contacts)															

\*BH 40, 45 & 50 also available in 9, 10.5 & 12 metre 'U' tube or 18, 21 & 24 metre straight tube versions. \*\*Based on Gross Calorific Value

### Clearances to Combustibles\*\*\* [mm]

Model	BH15UT								BH15ST								
	BH20UT	BH25UT	BH30UT	BH35UT	BH40UT	BH45UT	BH50UT	BH20ST	BH25ST	BH30ST	BH35ST	BH40ST	BH45ST	BH50ST			
Horizontal	A	150	150	150	150	150	200	200	150	150	150	150	150	200	200		
	B	890	970	970	1020	1170	1220	1270	1380	890	970	970	1020	1170	1220	1280	1330
	C	1580	1730	1730	1910	1980	2050	2110	2210	1570	1650	1650	1780	1930	1970	2010	2080
	D	760	940	940	1000	1090	1150	1200	1300	890	970	970	1020	1170	1220	1280	1330
45°	A	200	200	200	200	200	200	200	200	200	200	250	250	275	300	300	
	B	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	
	C	1500	1650	1650	1860	1960	2040	2110	2160	1500	1660	1660	1860	1960	2030	2110	2160
	D	1070	1170	1170	1320	1550	1620	1680	1780	1370	1520	1520	1630	1750	1820	1880	2000

\*\*\*Clearances B, C and D can be reduced by 50% for locations 7m 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.

**Installation Code and Annual Inspections:** All installations and service of ROBERTS GORDON® equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Roberts-Gordon and conform to all requirements set forth in the ROBERTS GORDON® manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Roberts-Gordon recommends that a qualified contractor annually inspect your ROBERTS GORDON® equipment and perform service where necessary, using only replacement parts sold and supplied by Roberts-Gordon.

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

**This product is not for residential use.**

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

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Enertech Group

## RANGE OF APPLICATIONS

- Restaurants and cafés
- Livestock farms
- Manufacturing facilities
- Recreational facilities
- School halls
- Airport hangars
- Packaging and cargo facilities
- Retail showrooms & outlets
- Atriums
- Grandstands
- Churches
- Loading docks
- Fire stations
- Offices
- Showrooms
- Vehicle service facilities
- Vehicle wash stations



- ✓ Focused intensity for spot heating applications
- ✓ Wide range of burner inputs and tube lengths
- ✓ Easy installation with quick-fix tube couplings
- ✓ Longer life provided by durable components such as heat treated aluminized tube

**RG ROBERTS GORDON**

**Blackheat®**

**U-Tube and Linear**  
**Low-Intensity Radiant Heaters**

Roberts-Gordon have been and remain the industry leader in high-efficiency radiant heat solutions with the most complete range of top quality gas radiant heater products available. They pioneered the first vacuum assisted low intensity, natural gas fired infrared heating system over forty years ago.

BLACKHEAT® U-tube and Linear low intensity radiant heaters are designed for fuel efficiency, quick heat recovery, low heating and electricity costs, minimal dust movement, uniform zone controlled heating, flexibility of design, environment friendliness and reliability while maintaining aesthetic standards.

**NU-WAY**  
Energy (N.Z.) Limited  
Enertech Group

For more information on other heaters in the Roberts Gordon range please visit:  
[www.nuwayenergy.co.nz](http://www.nuwayenergy.co.nz) | [www.hnw.com.au](http://www.hnw.com.au)

**hnw**  
Enertech Group

# Heating solutions for the experience of summer in winter

Roberts Gordon infrared radiant heaters warm people, floors and objects, not the air... much like the Sun!



## BENEFITS

- **Aesthetically pleasing:** Fits neatly with ceiling and blends with the contour of architectural lines, with the ability to vent to the outside.
- **Fuel efficient, quick heat recovery, low heating/electric costs.**
- **Minimal dust movement** as radiant heat does not move air.
- **Quiet, comfortable, gentle, uniform heat.**
- **Controlled heating for different zone requirements** with state of the art zone control units.
- **Flexible design options.**
- **Environmentally friendly:** Low emissions with clean burning Natural or Propane gas.
- **Frees valuable space** with low clearance to combustibles.
- **Reliable**—minimal maintenance.

## RESTAURANTS & CAFES

Design flexibility is achieved with straight, U-tube or L configurations and a broad range of burner sizes and tube lengths.

Most objects retain heat, so that less heat is lost over time leading to reduced recovery time and reduced energy bills.



## MULTI-PURPOSE HALLS

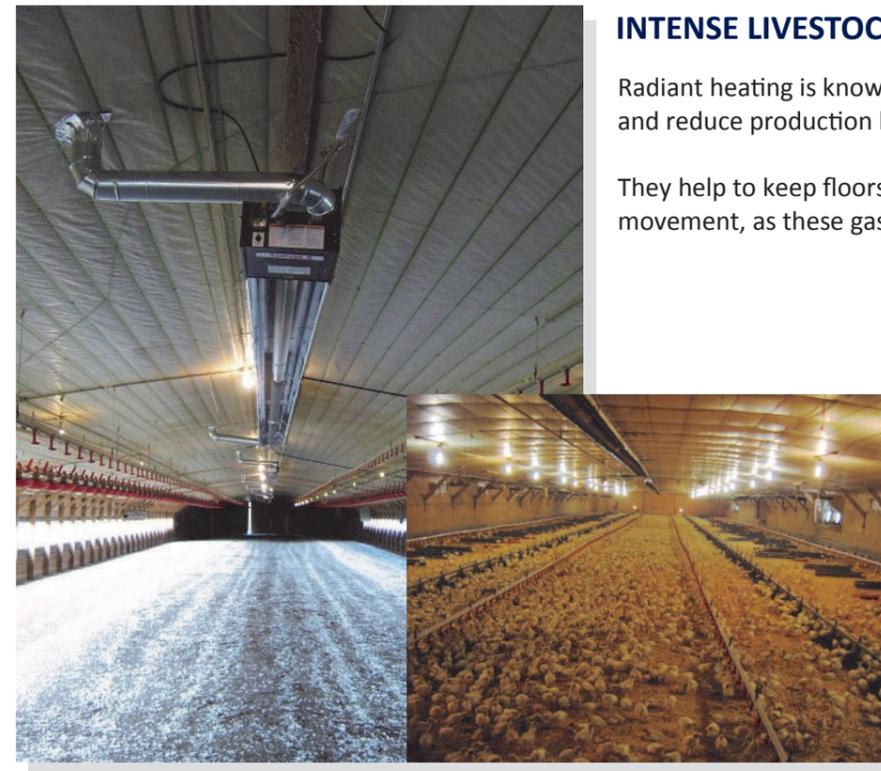
Gas-fired, radiant heaters are ideal for efficiently heating large open areas used for sport, assemblies, examinations, etc.



## INTENSE LIVESTOCK FARMING & AGRICULTURE

Radiant heating is known to improve the welfare of the animal and reduce production losses.

They help to keep floors dry and create minimal dust movement, as these gas heaters do not move or heat air.



## WORKSHOP

In aircraft hangars and workshops these heaters can be installed up to 25 metres high. This saves valuable floor space allowing for movement of large objects such as cranes below, keeps workers and their tools warm, and provides more room.

