



AR SERIES

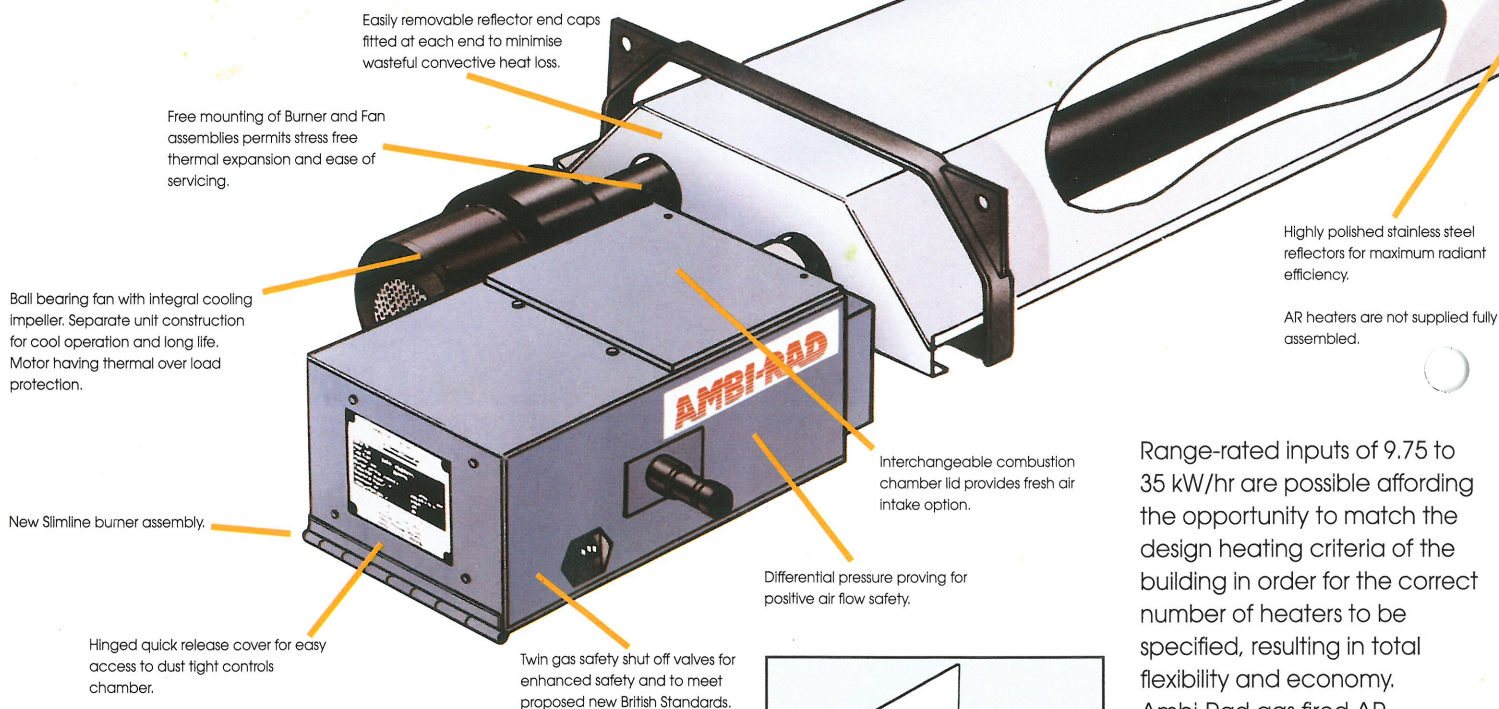
Radiant Tube Heaters



THE SUPER EFFICIENT TO HEAT YOU

It's a fact that Ambi-Rad AR radiant tube heaters can often be seen more easily than heard. Reason alone why AR heaters are specified for any industrial or commercial environment. The heaters' outstanding reputation for combining efficiency, economy and low noise makes them ideal for factories and workshops, superstores and sports halls, churches and museums - in fact, any building old or new requiring an effective, efficient heating system with low running cost.

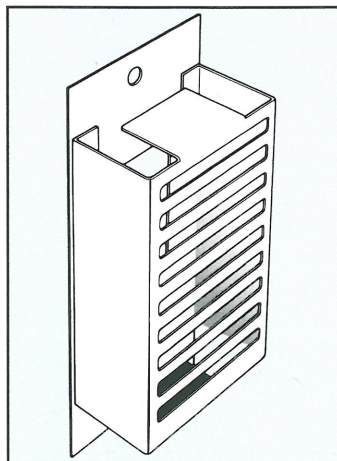
Central to the success of the AR range is a highly advanced slimline burner assembly incorporating two compartments. One houses the combustion chamber with a specially constructed air flow passage and burner head to eliminate combustion air turbulence and flame roar. The other occupies the twin gas safety shut-off valve and positive air flow switch which monitors the differential air pressure within the burner for enhanced safety of the heater.



The swing-away lid reveals the electronic sequence controller mounted on its surface whilst affording easy access when servicing and maintenance is necessary. When closed, the lid ensures a dust tight protective seal.

The AR range of 'U' Tube, Linear, Double Linear and Herringbone heaters also

incorporates patented twin helical turbulators fitted into each emitter tube and stainless steel end caps on the reflector to optimise heat transfer and obtain overall radiant efficiency. This also ensures that convective losses are minimised resulting in near uniform heat emission along the length of the emitter tube.



Range-rated inputs of 9.75 to 35 kW/hr are possible affording the opportunity to match the design heating criteria of the building in order for the correct number of heaters to be specified, resulting in total flexibility and economy. Ambi-Rad gas fired AR radiant tube heaters are manufactured from the finest materials including stainless steel reflectors, end caps, turbulators and guarded air inlet cover. Emitter tubes are mild steel, aluminised steel or stainless steel depending on the model.

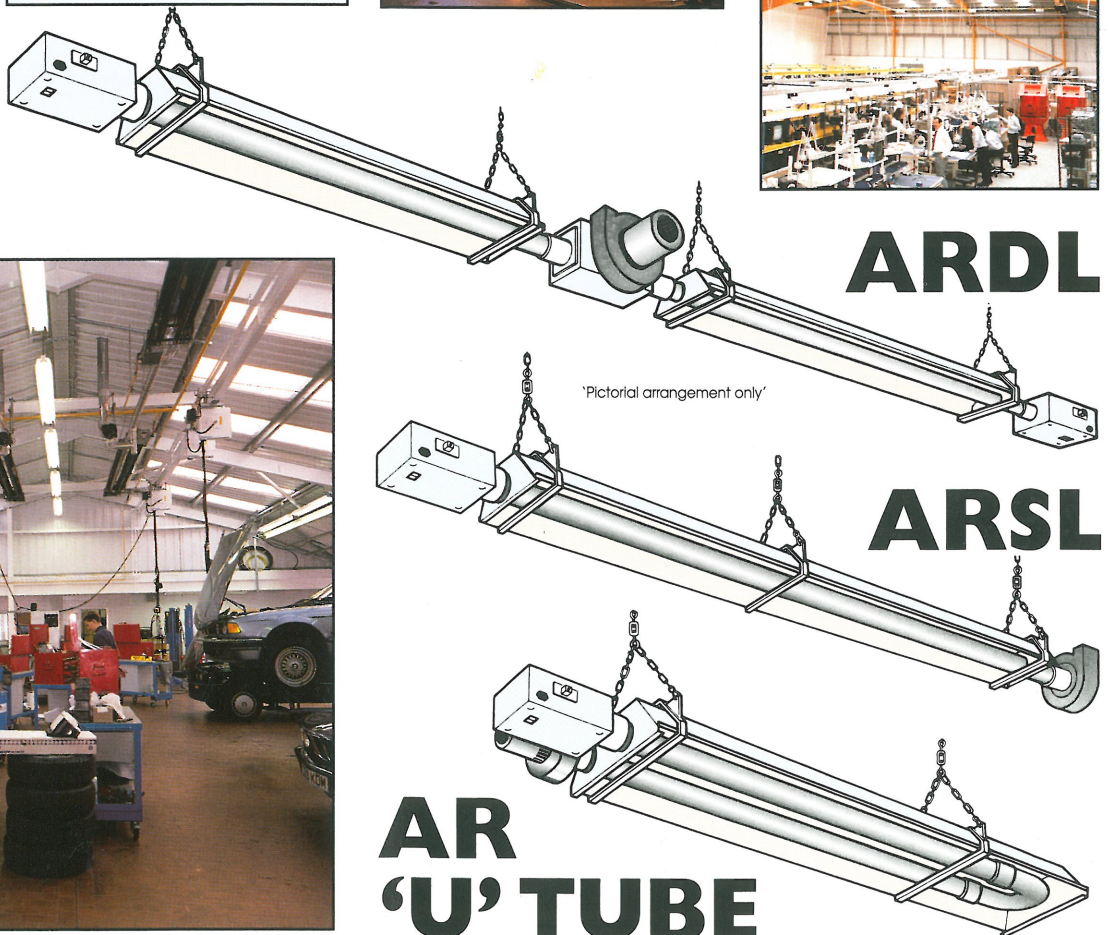
Stainless steel guarded air inlet with pre calibrated orifice for correct metered air supply for combustion.

EFFICIENT WAY FOR BUILDINGS

Easily detachable smooth flow U Bend ensures trouble free operation in dusty environments.

Optional insulated reflector eliminates stray upward radiant and convective loss creating greater downward emissions.

Adjustable suspension brackets for neat, convenient roof suspension.



A CHOICE OF MODELS ENSURE OPTIMUM PERFORMANCE

MODEL		AR13			AR22			AR35		
TYPE		'U'TUBE	SL/HB	DL†	'U' TUBE	SL/HB	DL†	'U'TUBE	SL/HB	DL†
NOMINAL HEAT	MIN	9.75kW (33,300 Btu/h)			16.6kW (56,600 Btu/h)			28kW (95,500 Btu/h)		
INPUT RANGE	MAX	13.2kW (45,000 Btu/h)			22kW (75,100 Btu/h)			35kW (119,400 Btu/h)		
OVERALL LENGTH mm		3470	6614	13,106	5244	8018	16,459	5895	12,710	25,603
OVERALL WIDTH mm		435	235	235	490	295	295	666	460	460
NOMINAL GAS RATE PER BURNER	(NAT. GAS)	Max. 1.24m³/h (43.6ft³/h) Min. 0.91m³/h (33.3ft³/h)			Max. 2.06m³/h (72.7ft³/h) Min. 1.60m³/h (56.6ft³/h)			Max. 3.28m³/h (115.7ft³/h) Min. 2.26m³/h (93ft³/h)		
	(LPG) PROPANE	Max. 0.51m³/h (18.0ft³/h) Min. 0.38m³/h (13.31ft³/h)			Max. 0.85m³/h (30ft³/h) Min. 0.64m³/h (22.66ft³/h)			Max. 1.35m³/h (47.77ft³/h) Min. 1.08m³/h (38.21ft³/h)		
GAS SUPPLY		CONNECTION R 1/2 1/2 in BSP EXTERNAL THREAD					: MAX PRESSURE 30m bar NatGas 50m bar Propane			
ELECTRICAL SUPPLY		230 VOLT 1 PHASE 50 Hz								
CURRENT RATING		0.55 AMP MAX. (INDUCTIVE)								
FUSE RATING		1 AMP INTERNAL 3 AMP EXTERNAL								
IGNITION		ELECTRONIC PROGRAMME START UP WITH SPARK IGNITION								
EXHAUST FLUE (dia.) TWIN WALL		125mm (5in)			125mm (5in)			125mm (5in)		
TOTAL INSTALLED WEIGHT		52kg	56kg	122kg	64kg	71kg	160kg	96kg	115kg	236kg

† NOTE: DL heaters only rated at maximum input. For building air supply and ventilation requirements please refer to BS6896: 1991 Installation of gas fired overhead radiant heaters for industrial and commercial heating.
* Flue dia for HB fan only.

MOUNTING HEIGHTS

MODEL	MOUNTING POSITION	MINIMUM MOUNTING HEIGHT	RECOMMENDED MOUNTING HEIGHT RANGE	WHEN MOUNTING OVER THESE HEIGHTS CONTACT AMBI-RAD DESIGN OFFICE
AR13	HORIZONTAL	3.0m (10ft)	3.6m-6.0m (12ft-20ft)	over 4.5m (15ft)
AR13	INCLINED/WALL MOUNTED	2.7m (9ft)	3.0m-4.0m (10ft-13ft)	
AR22	HORIZONTAL	3.6m (12ft)	4.2m-14m (14ft-46ft)	over 7.0m (23ft)
AR22	INCLINED/WALL MOUNTED	3.0m (10ft)	3.3m-5.5m (11ft-18ft)	
AR35	HORIZONTAL	4.3m (14ft)	4.9m-25.0m (16ft-82ft)	over 11.0m (36ft)
AR35	INCLINED/WALL MOUNTED	3.6m (12ft)	4.0m-7.0m (13ft-23ft)	

For full technical heater information and details please refer to User Installation and Service Manual

CLEARANCE DISTANCES TO COMBUSTIBLE MATERIALS

MODEL	AR13	AR22	AR35
ABOVE REFLECTOR	100mm (4in)	100mm (4in)	100mm (4in)
ABOVE BURNER FAN ASSEMBLY	300mm (1ft)	300mm (1ft)	400mm (1ft 4in)
BENEATH TUBES	900mm (3ft)	1250mm (4ft 2in)	1500mm (5ft)
TO THE SIDES	300mm (1ft)	500mm (1ft 8in)	500mm (1ft 8in)
IN FRONT OF TUBES (INCLINED MOUNTING)	900mm (3ft)	1250mm (4ft 2in)	1500mm (5ft)

Because of our policy of continuous development Ambi-Rad Ltd. reserve the right to vary the equipment specification without notice.

AMBI-RAD

Energy Efficient Heating Systems

AR series heaters are approved by British Gas. AGA. Gaz de France DVGW. VEG and manufactured in accordance with BS7186.



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