

Universal-Ray

GAS-FIRED INFRA-RED HEATERS



Ideal for heating:

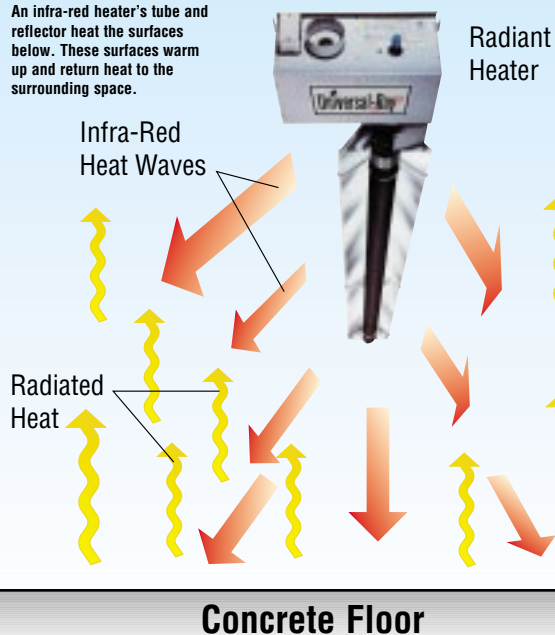
- Aircraft Hangars
- Atriums
- Auto Body shops
- Firehouses
- Hockey Rinks
- Loading docks
- Machine shops
- Manufacturing
- Stores
- Truck facilities
- Warehouses
- And many more...

Quality Equipment • Economical Operation • Superior Performance

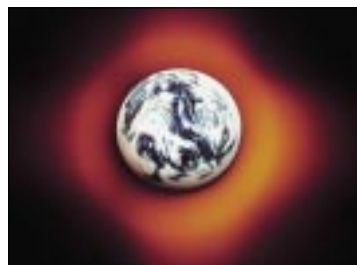
RH Series LOW INTENSITY HEATERS

Theory of Infra-Red

An infra-red heater's tube and reflector heat the surfaces below. These surfaces warm up and return heat to the surrounding space.



The Efficiency of Infra-Red Heating



Universal-RAY Infra-red Heaters emulate the true efficiency of the sun. Infra-red heaters generate energy which is converted into heat when absorbed by the floors, animals, people and objects. The energy is then "re-radiated" to warm

the surrounding area by convection. This is the most efficient and effective method of heating under the diverse and challenging conditions present in most commercial and industrial applications.

RH Series Offering

MODEL NO.	GAS TYPE	BTU/H	AVAILABLE TUBE LENGTHS	RECOMMENDED MOUNTING HEIGHT (FT)*
RH 50	N or LP	50,000	20', 30' or 40'	10' - 16'
RH 75	N or LP	75,000	20', 30' or 40'	13' - 20'
RH 100	N or LP	100,000	30', 40' or 50'	15' - 23'
RH 125	N or LP	125,000	40', 50' or 60'	15' - 25'
RH 150	N or LP	150,000	40', 50' or 60'	16' - 30'
RH 175	N or LP	175,000	40', 50' or 60'	17' - 35'

*Recommend mounting heights listed above are provided as a guideline. Actual conditions may dictate variations from the above data.

Universal Ray RH Series Infra-Red Tube heaters offer more than economy. Quality construction and operational features make the Universal-Ray system the best in this class of equipment. The RH Series utilizes direct spark ignition, mirror finished aluminum reflector and end caps. Choose from natural or propane gas, 50 to 175 MBTU/H, 20 to 60 foot lengths available in a variety of tube packages and configure your system as a straight, "U", or "L" shaped heater.

PRODUCT SPECIFICATIONS:

- **BTUH Range:** 50-175 MBTU/H
- **Length:** 20 - 60 feet per system
- **Warranty:** 1/3/5
(Components/Tubes/Burner)
- **Combustion Tube:** Coated Aluminized or Titanium
- **Radiant Tube(s):** 4" Hot Rolled Black Steel
- **Electrical:** 120V AC, 60 Hz, 3-try spark ignition, 1.7amp startup

PRODUCT FEATURES:

- Enameled control box (light blue)
- 4" combustion air intake collar
- Operational indicator lights for troubleshooting from floor level
- Potted circuit board for high moisture applications
- Gas cock and flex connector provided
- Single pressure switch operation
- Reflector end caps
- Turbulator baffle for maximum heat transfer
- Totally enclosed components



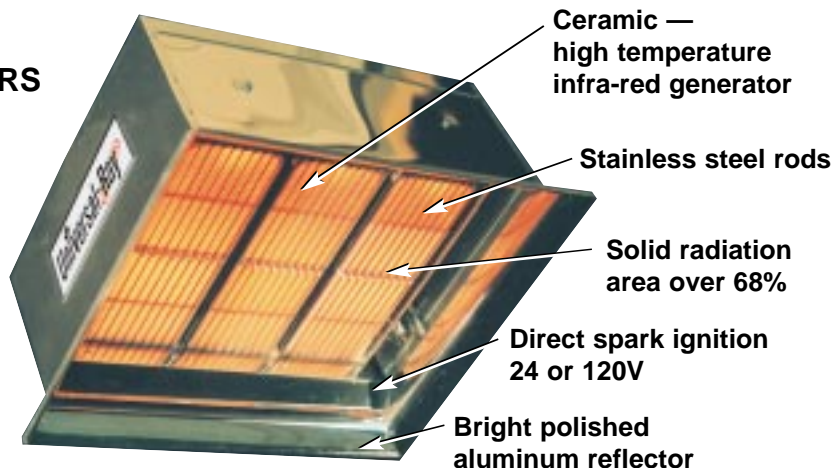
ra-Red Heaters

IR Series

HIGH INTENSITY HEATERS

The IR Series is commonly used in areas with high air infiltration, high ceilings and/or spot heating applications. The IR Series is available in several configurations including four different control options.

NOT FOR RESIDENTIAL USE!



IR Series Offering

MODEL NO.	MBTU/H		CERAMIC OPERATING TEMP.	SQ. IN. OF RADIATING SURFACE	DIMENSIONS (L x W x H)	RECOMMENDED MTG. HGT. (FT)*	CLEARANCE TO COMBUSTIBLES (IN.)				NET WEIGHT
	NATURAL GAS	PROPANE GAS					Sides	Back	Top	Below	
IR-30(S)	30	30	1780 °F	85 SQ."	13"x23"x15"	12' - 14'	30	18	28	72	18#
IR-30	30	30	1780 °F	85 SQ."	23"x13"x15"	12' - 14'	30	18	28	72	18#
IR-60	60	60	1780 °F	170 SQ."	23"x19"x15"	14' - 16'	32	18	40	72 [^]	27#
IR-90	90	90	1780 °F	255 SQ."	23"x26"x15"	16' - 18'	48	30	42	98	36#
IR-130	130	120	1810 °F	340 SQ."	23"x32"x15"	21' - 24'	48	30	52	120	45#

[^]This clearance is 80 in. when the heater is fitted with a parabolic reflector. Limited one-year warranty on components, five year limited warranty on ray heads.

*Recommended mounting heights listed above are provided as a guideline. Actual conditions may dictate variations from the above data. Always maintain published clearance to combustibles. Specify gas type and voltage.

BAH Series

ELECTRIC INFRA-RED HEATERS



Electric Infra-Red heaters are the cleanest method of heating, taking nothing from the air and adding nothing to the air. The BAH Series features a glass encased "quartz" tube heating element to provide virtually instant heat, so there is no need to wait for heat buildup. The BAH Series is ideal for applications where gas is not available or is impractical.

MODEL #	VOLTS	KW	WATTS	AMPS	EQUIV BTU's	DIMENSIONS			MOUNTING HEIGHT	WEIGHT	APPROXIMATE COVERAGE
						L	W	H			
BAH-35-A-17*	120	1.7	1,750	14.0	5,900	35"	6.75"	6.4"	8'-11'	13#	11.5' x 14.5'
BAH-35-C-17*	240	1.7	1,750	7.0	5,900	35"	6.75"	6.4"	8'-11'	13#	11.5' x 14.5'
BAH-45-C-25*	240	2.5	2,500	10.0	8,500	45"	6.75"	6.4"	10'-12'	16#	12.5' x 16'
BAH-60-C-40*	240	4.0	4,000	16.5	13,500	60"	6.75"	6.4"	10'-12'	20#	15' x 20'

*Maintain top clearance of 12 in. 18. in to sides, and 24 in. from the bottom of electric heater to combustibles. Mount heater 8 ft. above grade of floor.

PT Series

GAS FIRED, PORTABLE INFRA-RED HEATERS

The portable units are the perfect heater for use in buildings under construction, alteration, or repair. Portable units are available in 16 or 32 MBTU/H and feature a patented safety tip over device for extra safety. These units also include: mounting bracket, L.P. hose, and regulator.



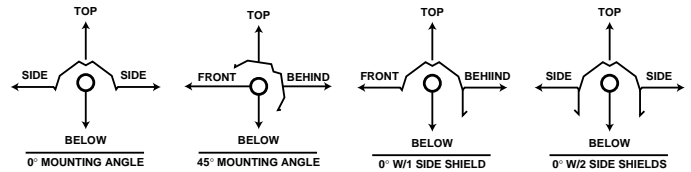
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RH SERIES PACKAGE & SAFETY INFORMATION

CLEARANCES TO COMBUSTIBLES (IN.)						
MODEL NO.	MOUNTING ANGLE	SIDE		TOP	BELOW	
		FRONT	BEHIND			
RH 50-(20,30,40) [N,P]	0°	9	9	6	47	
	45°	39	8	10	47	
	W/1 side shield	0°	29	8	6	47
	W/2 side shields	0°	9	9	6	47
	20 ft from burner	0°	7	7	6	30
RH 75-(20,30,40) [N,P]	0°	9	9	6	60	
	45°	39	8	10	60	
	W/1 side shield	0°	29	8	6	60
	W/2 side shields	0°	9	9	6	60
	20 ft from burner	0°	7	7	6	30
RH 100-(30,40,50) [N,P]	0°	14	14	6	66	
	45°	39	8	10	66	
	W/1 side shield	0°	29	8	6	66
	W/2 side shields	0°	16	16	6	66
	20 ft from burner	0°	7	7	6	30

CLEARANCES TO COMBUSTIBLES (IN.)						
MODEL NO.	MOUNTING ANGLE	SIDE		TOP	BELOW	
		FRONT	BEHIND			
RH 125-(40,50,60) [N,P]	0°	20	20	6	76	
	45°	58	8	10	76	
	W/1 side shield	0°	42	8	6	76
	W/2 side shields	0°	20	20	6	76
	20 ft from burner	0°	7	7	6	30
RH 150-(40,50,60) [N,P]	0°	24	24	6	81	
	45°	58	8	10	81	
	W/1 side shield	0°	42	8	6	81
	W/2 side shields	0°	23	23	6	81
	20 ft from burner	0°	11	11	6	44
RH 175-(40,50,60) [N,P]	0°	34	34	6	92	
	45°	63	8	10	92	
	W/1 side shield	0°	50	8	6	92
	W/2 side shields	0°	30	30	6	92
	20 ft from burner	0°	11	11	6	44

Always maintain published clearance to combustibles. Failure to comply with the stated clearance to combustibles could result in personal injury, death, and/or property damage.



RH Package Selection Information

Model	BTU	Length	Tube Package ID	Combustion Tube	"Type" Tube Package 1	"Type" Tube Package 2	Recommended Mounting Height *
RH 50 N or LP - 20	50,000	20'	TPK-B	Aluminized	(B) 20-4 Alum-HRT	N/A	10' - 16'
RH 50 N or LP - 30	50,000	30'	TPK-D	Aluminized	(D) 30-4 Alum-HRT	N/A	10' - 16'
RH 50 N or LP - 40	50,000	40'	TPK-F	Titanium	(F) 40-4 Titan-HRT	N/A	10' - 16'
RH 75 N or LP - 20	75,000	20'	TPK-B	Aluminized	(B) 20-4 Alum-HRT	N/A	13' - 20'
RH 75 N or LP - 30	75,000	30'	TPK-D	Aluminized	(D) 30-4 Alum-HRT	N/A	13' - 20'
RH 75 N or LP - 40	75,000	40'	TPK-F	Titanium	(F) 40-4 Titan-HRT	N/A	13' - 20'
RH 100 N or LP - 30	100,000	30'	TPK-D	Aluminized	(D) 30-4 Alum-HRT	N/A	15' - 23'
RH 100 N or LP - 40	100,000	40'	TPK-F	Titanium	(F) 40-4 Titan-HRT	N/A	15' - 23'
RH 100 N or LP - 50	100,000	50'	TPK-F,A	Titanium	(F) 40-4 Titan-HRT	(A) 10-4 HRT	15' - 23'
RH 125 N or LP - 40	125,000	40'	TPK-F	Titanium	(F) 40-4 Titan-HRT	N/A	15' - 25'
RH 125 N or LP - 50	125,000	50'	TPK-F,A	Titanium	(F) 40-4 Titan-HRT	(A) 10-4 HRT	15' - 25'
RH 125 N or LP - 60	125,000	60'	TPK-F,C	Titanium	(F) 40-4 Titan-HRT	(C) 10-4 HRT	15' - 25'
RH 150 N or LP - 40	150,000	40'	TPK-F	Titanium	(F) 40-4 Titan-HRT	N/A	16' - 30'
RH 150 N or LP - 50	150,000	50'	TPK-F,A	Titanium	(F) 40-4 Titan-HRT	(A) 10-4 HRT	16' - 30'
RH 150 N or LP - 60	150,000	60'	TPK-F,C	Titanium	(F) 40-4 Titan-HRT	(C) 10-4 HRT	16' - 30'
RH 175 N or LP - 40	175,000	40'	TPK-F	Titanium	(F) 40-4 Titan-HRT	N/A	17' - 35'
RH 175 N or LP - 50	175,000	50'	TPK-F,A	Titanium	(F) 40-4 Titan-HRT	(A) 10-4 HRT	17' - 35'
RH 175 N or LP - 60	175,000	60'	TPK-F,C	Titanium	(F) 40-4 Titan-HRT	(C) 10-4 HRT	17' - 35'

*Recommended mounting heights listed above are provided as a guideline. Actual conditions may dictate variations from the above data.

Models are shipped with one 1/2" gas cock, one 24" stainless steel flex hose, reflector center support, reflector end caps with clips, turbulator baffle, and applicable clamps and hangars.

Tube package upgrades from hot rolled steel to coated aluminized steel are available by calling Detroit Radiant Products.



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