

DETROIT RADIANT

RE-VERBER-RAY

RADIANT GAS HEATERS®

PRODUCTS COMPANY

COMMERCIAL & INDUSTRIAL

SERIES

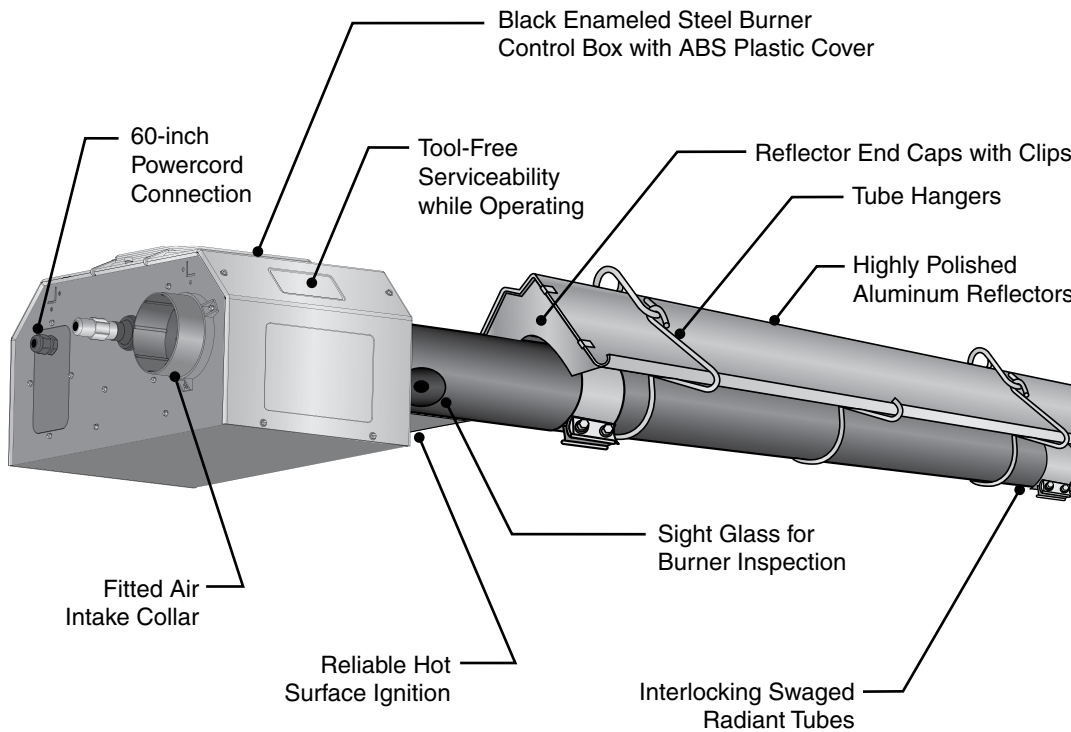
● HL3 ○ DX3 ○ XTS3 ○ DET3 ○ DES3

HL3 SERIES

GAS-FIRED, TWO STAGE, INFRARED HEATERS

The HL3 Series, packed with quality features, represents today's most energy efficient line of infra-red tube heaters. Our patented two stage technology, incorporated into the HL3 Series, provides more comfort while saving valuable energy dollars. In addition, the highest quality materials and construction features ensure years of reliable and efficient operation. No other infrared heater can match the performance and quality of the HL3 Series.

PRODUCT FEATURES



SPECIFIC FEATURES



- Tool-free access to controls.
- Serviceability while unit is operating.
- Separated air and gas burner chamber.
- Symmetrical placement of ignition tube.
- Hinged control compartment provides ease in servicing.
- 3-piece independent compartment cover.
- ABS plastic air intake collar for connection to 4" PVC/DWV pipe.

PRODUCT FEATURES COMPARISON CHART

	HL3	DX3	XTS3	DET3	DES3
Highly Polished Aluminum Reflectors	●	●	●	●	●
Coated Titanium or Aluminized Combustion Chamber	●	●	●	●	●
Coated Aluminized Radiant Tubes	●	●			
Hot Surface Ignition	●	●	●		
Stainless Steel Flexible Gas Connector	●	●	●	●	●
Ball Valve (1/2" Brass) with Pressure Tap Included	●	●			
Two-stage Technology	●			●	
Interlocking Swaged Tubes	●	●	●	●	●
Stainless Steel Models Available*	●	●			
Reflector End Caps Included	●	●	●		
Optional 'U' or 'L' Configurations Available	●	●	●	●	●

* Select upgrades available; full stainless models are available in the HL2 and DX2 Series offering.

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VISIT OUR WEBSITE FOR:

- Product Specs
- Parts Support
- Dealer Locator
- Applications
- C.A.D. Library
- Design Guidelines
- Theory of Infra-red
- and More!

HL3 SERIES

SPECIFICATIONS

PRODUCT SPECIFICATIONS

BTU Range:	65-200 MBH
Lengths:	20-70 Ft.
Gas Type:	Natural or Propane
Combustion Chamber:	Black Coated Aluminized or Titanium
Radiant Tubes:	Black Coated Aluminized Steel
Certification:	CSA, IAS, CE (GTD)
Limited Warranty:	1-5-10 (Components-Tubes-Burner)

OPTIONAL EQUIPMENT

"U" or "L" Configurations:	Available (RUP, REP)
Stainless Steel Upgrades:	Available (SSTRAO, SSFWAO)
24V Controls:	Standard
Indicator Lights:	Standard
Protective Guards:	Available (PG)
Side Shield Extensions:	Available (SSE)
Outdoor Approval:	Available (OD-KIT)



ELECTRICAL

- 120V, 60Hz, 3-wire
- 4.8A starting, 1.1A running

CONTROLS

- Pre & post purge
- 24V thermostat control
- Micro-processor circuitry

TUBE CONSTRUCTION

- As shown at left
- 4" x 10' 16 ga. construction
- Labor saving, interlocking swaged tube design

REFLECTORS

- Highly polished aluminum
- End caps included
- 0° - 45° rotatable angle
- Tension springs

IGNITION/SENSE

- Hot surface ignition
- Flame rod sense
- Self-diagnostic LED

VENTING

- 4" single vent
- 6" common vent (with single thermostat & HLRP)
- SK caps on 200 MBH models

GAS CONNECTION

- 1/2" NPT ball valve included
- 24" stainless flex connector provided

GAS PRESSURES

- MAN. - 3.5" NAT or 10.0" LP
- MIN. - 5.0" NAT or 11.0" LP
- MAX. - 14.0" NAT or 14.0" LP

COMBUSTION AIR

- Equipped for ducted air intake from roof or sidewall

KIT CONTENTS

- All hangers & couplers
- Reflector end caps
- Turbulator baffle(s)

AVAILABLE HL3 MODELS & CLEARANCES

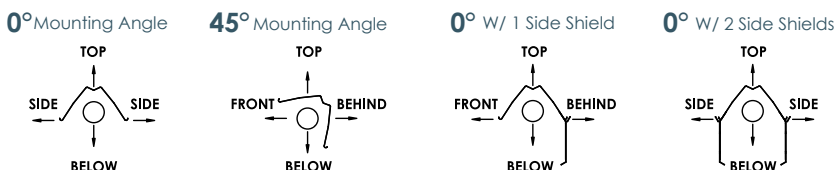
MODEL #	GAS*	MBH HIGH/LOW	LENGTH	WEIGHT	RECOMMENDED MOUNTING HEIGHTS**
HL3-20-65	N or LP	65/50	21' - 9"	120#	9' to 14'
HL3-20-75 [^]	N or LP	75/50	21' - 9"	120#	10' to 15'
HL3-30-65	N or LP	65/50	31' - 5"	160#	10' to 15'
HL3-30-75 [^]	N or LP	75/50	31' - 5"	160#	11' to 18'
HL3-30-100 [^]	N or LP	100/65	31' - 5"	160#	12' to 20'
HL3-30-125 [^]	N or LP	125/95	31' - 5"	160#	13' to 23'
HL3-40-65	N or LP	65/50	41' - 1"	190#	11' to 18'
HL3-40-75 [^]	N or LP	75/50	41' - 1"	190#	11' to 18'
HL3-40-100 [^]	N or LP	100/65	41' - 1"	190#	12' to 20'
HL3-40-125 [^]	N or LP	125/95	41' - 1"	190#	13' to 23'
HL3-40-150 [^]	N or LP	150/100	41' - 1"	190#	14' to 25'
HL3-40-175	N or LP	175/125	41' - 1"	190#	15' to 27'
HL3-50-125 [^]	N or LP	125/95	50' - 9"	235#	15' to 27'
HL3-50-150 [^]	N or LP	150/100	50' - 9"	235#	15' to 27'
HL3-50-175	N or LP	175/125	50' - 9"	235#	16' to 30'
HL3-50-200	N or LP	200/145	50' - 9"	235#	17' to 35'
HL3-60-150 [^]	N or LP	150/100	60' - 5"	265#	16' to 30'
HL3-60-175	N or LP	175/125	60' - 5"	265#	16' to 30'
HL3-60-200	N or LP	200/145	60' - 5"	265#	17' to 35'
HL3-70-175	N or LP	175/125	70' - 1"	300#	19' to 42'
HL3-70-200	N or LP	200/145	70' - 1"	300#	19' to 42'

* Specify natural (N) or propane (LP) gas.
 ** Recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from the above data.
[^] Stainless steel tube upgrade available.

HL3 CLEARANCES TO COMBUSTIBLES (IN.)

MODEL NO.	MOUNTING ANGLE	SIDE			
		FRONT	BEHIND	TOP	BELOW
HL3-(20,30,40)-65,75	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
HL3-(30,40)-100	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
HL3-(30,40,50)-125	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
HL3-(40,50,60)-150	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
HL3-(40,50,60,70)-175	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
HL3-(50,60,70)-200	0°	41	41	6	94
	45°	63	8	10	94
W/1 Side Shield	0°	54	8	6	94
W/2 Side Shields	0°	30	30	6	94
20 ft. from Burner	0°	11	11	6	44

Always maintain the published clearances to combustibles. Clearances published in HL3 Series manual and on warning label supersede data shown on this brochure. Place signs where necessary in accordance with ANSI Standards.



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