

DETROIT RADIANT

RE-VERBER-RAY

RADIANT GAS HEATERS®

PRODUCTS COMPANY

SERIES

● LD

○ LS

LD SERIES

RESIDENTIALLY APPROVED GAS FIRED INFRA-RED HEATERS

The LD Series extends the energy saving benefits of two-stage technology to many commercial, industrial and residential applications. Designed for lower mounting heights, the LD Series is ideal for low ceiling commercial/industrial areas such as entryways, mezzanines, lunch rooms and restaurant patios. Specific models are suitable in residential garages, enclosed swimming pools, solariums and porches.

RESIDENTIAL / LOW MOUNT



PRODUCT FEATURES

- Two-stage Technology.
 - 12% Fuel Savings Over Single Stage.
 - Faster Heat Loss Recoveries.
 - Increased Comfort Levels.
 - 35% Reduction of On/Off Cycles.
- BTU/H Inputs of 40,000 & 50,000.
- Available in Tube Lengths of 10 to 30 Ft.
- Coated Titanium Treated Combustion Chamber.
- Coated Aluminized Steel Radiant Tubes.
- Highly Polished Aluminum Reflectors.
- 24V Control Wiring with Micro-processor Circuitry.
- Hot Surface Ignition with Flame Rod Sensing.

PRODUCT FEATURES COMPARISON CHART

| | LD | LS | OTHER |
|--|----|----|-------|
| Highly Polished Aluminum Reflectors | ● | • | |
| Coated Titanium Treated Combustion Chamber | ● | • | |
| Coated Aluminized Radiant Tubes | ● | • | |
| Hot Surface Ignition | ● | • | |
| Flex Connector (24" Stainless Steel) | ● | • | |
| Gas Cock (1/2" Brass) with Pressure Tap Included | ● | • | |
| Two-stage Technology | ● | | |
| Interlocking Swaged Tubes | ● | • | |
| Stainless Steel Upgrades Available | ● | • | |
| Reflector End Caps Included | ● | • | |
| Optional 'U' or 'L' Configurations Available | ● | • | |
| 24 Volt Control Voltage Standard | ● | | |

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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!

LD SERIES

SPECIFICATIONS



PRODUCT SPECIFICATIONS

| | |
|----------------------------|---------------------------------|
| BTU Range: | 40-50 MBH |
| Lengths: | 10-30 Ft. |
| Gas Type: | Natural or Propane |
| Combustion Chamber: | Coated Titanium Treated Steel |
| Radiant Tubes: | Coated Aluminized Steel |
| Certification: | CSA, IAS |
| Limited Warranty: | 1-3-5 (Components-Tubes-Burner) |

OPTIONAL EQUIPMENT

| | |
|-----------------------------------|-----------------------------------|
| "U" or "L" Configurations: | Available (DB-TF1B, DB-E6) |
| Stainless Steel Upgrades: | Available (SSRAO, SSFWAO, SSCBAO) |
| 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
- 24V controls

CONTROLS

- Pre & post purge
- Micro-processor circuitry
- 24V thermostat control (HLRB required for multiple heaters controlled singly)

TUBE CONSTRUCTION

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

REFLECTORS

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

IGNITION/SENSE

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

VENTING

- 3" single vent
- 4" common vent (with single thermostat)

GAS CONNECTION

- 1/2" NPT ball valve/inlet tap included
- 24" stainless steel flexible connector included

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
- Stainless steel turbulator/heat baffle(s)

AVAILABLE LD MODELS & CLEARANCES

| MODEL # | GAS* | MBH HIGH/LOW | LENGTH | WEIGHT | RECOMMENDED MOUNTING HEIGHTS** |
|----------|---------|--------------|-----------|--------|--------------------------------|
| LD-10-40 | N or LP | 40 / 28 | 12' - 1" | 70# | 10' - 14' |
| LD-15-40 | N or LP | 40 / 28 | 16' - 10" | 85# | 8' - 13' |
| LD-15-50 | N or LP | 50 / 35 | 16' - 10" | 85# | 10' - 15' |
| LD-20-40 | N or LP | 40 / 28 | 21' - 10" | 100# | 8' - 13' |
| LD-20-50 | N or LP | 50 / 35 | 21' - 10" | 100# | 9' - 15' |
| LD-30-50 | N or LP | 50 / 35 | 31' - 7" | 120# | 9' - 14' |

See Installation Manual For Complete Information.

Models approved for Both commercial/industrial and residential use.

Models approved for Commercial/industrial use only.

* Specify natural (N) or propane (LP) gas.

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

NOTICE: If the heater is mounted below 8 feet, protective guards (PG) are required.

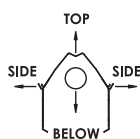
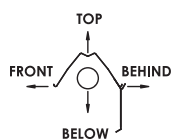
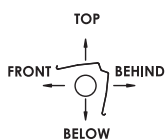
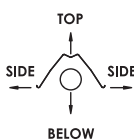
LD CLEARANCES TO COMBUSTIBLES (IN.)

| MODEL NO. | MOUNTING ANGLE | SIDE | | | |
|----------------------|-----------------|-------|--------|-----|-------|
| | | FRONT | BEHIND | TOP | BELOW |
| LD (10, 15, 20) - 40 | 0° | 15 | 15 | 6 | 45 |
| | 45° | 58 | 8 | 10 | 45 |
| | W/1 side shield | 42 | 8 | 6 | 45 |
| LD 15 - 50 | 0° | 11 | 11 | 6 | 48 |
| | 45° | 39 | 8 | 10 | 48 |
| | W/1 side shield | 29 | 8 | 6 | 48 |
| LD (20, 30) - 50 | 0° | 11 | 11 | 6 | 48 |
| | 45° | 39 | 8 | 10 | 48 |
| | W/1 side shield | 29 | 8 | 6 | 48 |
| 20 ft. from burner | 0° | NA | NA | NA | NA |
| | 0° | 7 | 7 | 6 | 30 |

Always maintain the published clearances to combustibles. Place signs where necessary in accordance with ANSI Standards.

Clearances published in LD Series manual and on warning label supersede data shown on this brochure.

0° Mounting Angle 45° Mounting Angle 0° W/ 1 Side Shield 0° W/ 2 Side Shields



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