

DETROIT RADIANT

**RE-VERBER-RAY**

RADIANT GAS HEATERS®

PRODUCTS COMPANY

COMMERCIAL & INDUSTRIAL



**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 65,000 to 200,000
- Available in Tube Lengths of 20 to 70 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**

|  | HL2 | DX2 | XTS | DET | DES | OTHER |
|--|-----|-----|-----|-----|-----|-------|
| Highly Polished Aluminum Reflectors              | ●   | •   | •   | •   | •   | •     |
| Coated Titanium or Aluminized 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     | ●   | •   | •   | •   | •   | •     |

SERIES

● HL2 ○ DX2 ○ XTS ○ DET ○ DES

**HL2 SERIES**

**GAS-FIRED, TWO STAGE, AWARD WINNING INFRA-RED HEATERS**

The HL2 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 HL2 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 infra-red heater can match the performance and quality of the HL2 Series.



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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!

# HL2 SERIES

## SPECIFICATIONS

### PRODUCT SPECIFICATIONS

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

### OPTIONAL EQUIPMENT

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>"U" or "L" Configurations:</b> | Available (RUP, REP)               |
| <b>Stainless Steel Upgrades:</b>  | Available (SSTRAO, SSFWAO, SSCBAO) |
| <b>24V Controls:</b>              | Standard                           |
| <b>Indicator Lights:</b>          | Standard                           |
| <b>Protective Guards:</b>         | Available (PG)                     |
| <b>Side Shield Extensions:</b>    | Available (SSE)                    |
| <b>Outdoor Approval:</b>          | 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)
- 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 HL2 MODELS & CLEARANCES

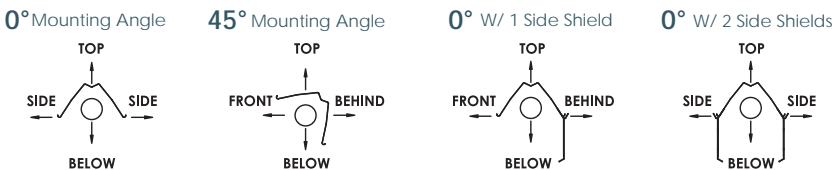
| MODEL #     | GAS*    | MBH HIGH/LOW | LENGTH    | WEIGHT | RECOMMENDED MOUNTING HEIGHTS** |
|-------------|---------|--------------|-----------|--------|--------------------------------|
| HL2-20-65   | N or LP | 65/50        | 21' - 7"  | 120#   | 9' to 14'                      |
| HL2-20-75^  | N or LP | 75/50        | 21' - 7"  | 120#   | 10' to 15'                     |
| HL2-20-100  | N or LP | 96/65        | 21' - 7"  | 120#   | 11' to 18'                     |
| HL2-30-65   | N or LP | 65/50        | 31' - 3"  | 160#   | 10' to 15'                     |
| HL2-30-75^  | N or LP | 75/50        | 31' - 3"  | 160#   | 11' to 18'                     |
| HL2-30-100^ | N or LP | 100/65       | 31' - 3"  | 160#   | 12' to 20'                     |
| HL2-30-125  | N or LP | 125/95       | 31' - 3"  | 160#   | 13' to 23'                     |
| HL2-40-65   | N or LP | 65/50        | 40' - 11" | 190#   | 11' to 18'                     |
| HL2-40-75^  | N or LP | 75/50        | 40' - 11" | 190#   | 11' to 18'                     |
| HL2-40-100^ | N or LP | 100/65       | 40' - 11" | 190#   | 12' to 20'                     |
| HL2-40-125^ | N or LP | 125/95       | 40' - 11" | 190#   | 13' to 23'                     |
| HL2-40-150^ | N or LP | 150/100      | 40' - 11" | 190#   | 14' to 25'                     |
| HL2-40-175  | N or LP | 175/125      | 40' - 11" | 190#   | 15' to 27'                     |
| HL2-50-125^ | N or LP | 125/95       | 50' - 7"  | 235#   | 15' to 27'                     |
| HL2-50-150^ | N or LP | 150/100      | 50' - 7"  | 235#   | 15' to 27'                     |
| HL2-50-175  | N or LP | 175/125      | 50' - 7"  | 235#   | 16' to 30'                     |
| HL2-50-200  | N or LP | 200/145      | 50' - 7"  | 235#   | 17' to 35'                     |
| HL2-60-150^ | N or LP | 150/100      | 60' - 3"  | 265#   | 16' to 30'                     |
| HL2-60-175  | N or LP | 175/125      | 60' - 3"  | 265#   | 16' to 30'                     |
| HL2-60-200  | N or LP | 200/145      | 60' - 3"  | 265#   | 17' to 35'                     |
| HL2-70-175  | N or LP | 175/125      | 69' - 11" | 300#   | 19' to 42'                     |
| HL2-70-200  | N or LP | 200/145      | 69' - 11" | 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.  
 ^ Select -SS stainless steel models available from 75,000 to 150,000 BTU/H.

### HL2 CLEARANCES TO COMBUSTIBLES (IN.)

| MODEL NO.                   | MOUNTING ANGLE     | SIDE  |        |     |       |    |
|-----------------------------|--------------------|-------|--------|-----|-------|----|
|                             |                    | FRONT | BEHIND | TOP | BELOW |    |
| HL2-(20,30,40)-65,75[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 |
| HL2-(20,30,40)-100 [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 |
| HL2-(30,40,50)-125 [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 |
| HL2-(40,50,60)-150 [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 |
| HL2-(40,50,60,70)-175 [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 |
| HL2-(50,60,70)-200 [N,P]    | 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 HL2 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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