**WARNING:** This heater must be installed and serviced by trained gas installation and service personnel only! Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment. Protect yourself and others by observing all safety information. Retain instructions for future reference.

* For complete installation instructions, see Generic IOM this piece was inserted within. Also available at www.reverberray.com.

## DET Series

| Project: _____________________________ | Date: __________________ |
| Location: ___________________________ | __________________________ |
| City: ______________ State: ______ Zip: ___________ | __________________________ |
| Contractor: ___________________________ | __________________________ |
| Engineer: _____________________________ | __________________________ |
| Local Representative: ___________________ | __________________________ |
| Customer Name: _________________________ | __________________________ |
| Address: ______________________________ | __________________________ |
| City: ______________ State: ______ Zip: ___________ | __________________________ |
| Phone #: __________________ Serial #: __________________ | __________________________ |
| Model #: ____________________________ Date of Installation: __________________ | __________________________ |

### Models

<table>
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<tr>
<th>Qty.</th>
<th>Model #</th>
<th>Gas Type (circle one)</th>
<th>BTUH High</th>
<th>BTUH Low</th>
<th>Straight Length</th>
<th>U-Tube Length</th>
<th>Weight</th>
<th>Typical Mount Height</th>
<th>Combustion Chamber(s) (Black Coated)</th>
<th>Radiant Emitter Tube(s) (Uncased)</th>
<th>&quot;Type&quot; Tube Pkg #1</th>
<th>&quot;Type&quot; Tube Pkg. #2</th>
<th>33&quot; Baffle Pieces</th>
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* Model requires 5EA-SUB accessory package.

Warranty registration options:
1. Register online at www.reverberray.com/warranty
2. Complete the information above and fax to Detroit Radiant Products Co.
3. Complete the information above and mail to Detroit Radiant Products Co.
**Warnings & Clearances to Combustibles**

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<tr>
<th>MODEL NO.</th>
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<th>TOP</th>
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<td>30</td>
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</table>

**WARNING!**

**NOT FOR RESIDENTIAL USE!**
Do not use in the home, sleeping quarters, attached garages, etc.

**WARNING!**
This heater must be installed and serviced by trained gas installation and service personnel only. Read and understand these instructions thoroughly before attempting to install, operate or service this heater. Failure to comply could result in personal injury, asphyxiation, death, fire, and/or property damage. Retain these instructions for future reference.

**WARNING!**
This is not an explosion-proof heater. Where there is the possibility of exposure to flammable vapors, consult the local fire marshal, the fire insurance carrier and other authorities for approval of the proposed installation.

**WARNING!**
Failure to comply with the stated clearances to combustibles could result in personal injury, death and/or property damage.

**WARNING!**
In locations used for the storage of combustible materials, signs must be posted to specify the maximum permissible stacking height to maintain the required clearances from the heater to the combustibles. Signs must either be posted adjacent to the heater thermostats or in the absence of such thermostats, in a conspicuous location.

**WARNING!**
This heater should be installed so that the minimum clearances to vehicles, as marked on the heater, will be maintained. If vehicle lifts are present, ensure that these clearances will be maintained from the highest raised vehicle.

---

*Failure to comply with the stated clearances to combustibles could result in personal injury, death and/or property damage.*
DET Series - 4" Tube Heater Installation, Operation, Maintenance and Parts Manual

DET Series Mechanical Instructions

This supplement is designed to address the specifics of the DET Series - See page 12 for specific product features.

Product Summary
DET Series heaters are available from 20 to 60 foot, 65,000 to 200,000 BTU’s, natural or LP gas. DET Series are positive pressure, two stage heaters and feature hot-rolled steel for it’s standard radiant pipes. DET Series heaters also feature a direct spark ignition system.

Specific Mechanical Instructions
Be sure to identify the aluminized (65 - 125 MBH) or titanium (150 - 200 MBH) combustion chamber and place as the first tube section. On 150 - 200 MBH models only, be sure to identify the aluminized combustion chamber and place immediately following the first combustion tube section.

175,000 & 200,000 BTU/H models must be installed with a stainless steel tube clamp at the second joint of the exchanger between the first and second ten foot radiant tube.

Note baffle quantities for your model and place baffles in the last tubes (farthest from the burner) as shown on pages 13-14 of the general manual.

Tube Installation Sequence

B = Burner Location
* = Baffle Location
○ = Stainless Steel Clamp Location (175-200 MBH)

^ Models 150-200 MBH incorporate a second combustion chamber constructed of coated aluminized steel. This section of tube must be installed as the second tube downstream of the burner box.
**DET Series**

**Electrical Requirements**
- 120 Volt - 60 HZ, single phase, 3-wire.
- 25V thermostat connection.
- Starting Current 1.7 Amps.
- Running Current 1.1 Amps.
- 24V controls.
- Wiring must not run above or below the heater, nor exposed to the radiant output.
- Heaters must be grounded in accordance with the National Electrical Code ANSI/NFPA70 (latest edition).
- Observe proper electrical polarity.

**Gas Requirements**
- Manifold Pressure
  - Nat. 3.5” • LP. 10.0”
- Minimum Inlet Pressure
  - Nat. 5.0” • LP. 11.0”
- Maximum Inlet
  - Nat. 14.0” • LP. 14.0”

**Ventilation Requirements**
- Consult the general manual for venting instructions.
- For unvented operation, there must be a positive air displacement of at least 4.0 CFM per 1000 BTU/H for natural gas or 4.5 CFM per 1000 BTU/H for LP gas. WVE-4 termination cap must also be used.

**Theory of Operation**

- **Starting Circuit** (see internal wiring diagrams)

  Two voltages (120V supply and 24V control) must be supplied to the DET Series burner box for proper operation. Upon closing of the thermostat the low fire relay is closed allowing L1 to complete the circuit to L2 via the blower motor beginning the sequence of operation.

  Air pressure generated by the blower will cause the normally open differential pressure switch to close. Another circuit is completed from L1 to the spark ignition module and back to L2. After a seven second pre-purge, the spark electrode, transformer, and gas valve are all energized simultaneously. The trial for ignition is fifteen seconds.

- **Running Circuit**

  After ignition, the flame rod monitors the flame. As long as a flame is present, the valve is held open. If the flame is lost, the control acts to close the valve within one second, and a new trial sequence identical to that at start-up is initiated. If proof of flame is not established within the 15 second trial for ignition, the unit will retry two additional times before entering lockout mode. If lockout occurs, the control can be reset by briefly interrupting the power source.

  Hi fire operation is actuated by the thermostat sending a 24V signal to the Hi Fire Relay. The energized coil of the relay is closed allowing 24V to continue onto the hi fire of the gas valve.
Internal Wiring Diagrams

DET LADDER DIAGRAM

IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C.

DET BLOCK DIAGRAM

Internal Wiring Diagrams
DET Series

Field Wiring Diagrams

Note: If optional yellow control cord is installed then the following wire colors apply:
Neutral - Green
Low - White
High - Black

Note: If optional Black power cord is installed then L1 is Brown or Black and L2 is Blue or White.

Additional wire needed on thermostats that require constant power.

EXTERNAL TRANSFORMER - FIELD SUPPLIED

T-stat

120 Volt Power (Observe Polarity)

L1

L2

PANEL GROUND

Orange label

1/4 spade terminals required - field supplied

Single heater, single thermostat (orange label).

Multiple heaters, single thermostat (orange label).

DET Series - 4" Tube Heater Installation, Operation, Maintenance and Parts Manual
Alternative Wiring Diagrams
Post Purge Option

DET LADDER DIAGRAM - POST PURGE

DET BLOCK DIAGRAM - POST PURGE
Turn up Thermostat

Does the ‘low fire’ relay close? NO

YES

Is there power from the thermostat? NO

YES

Replace relay. Confirm power.

Does the fan blower turn on? NO

YES

Is the power at the heater 120V? NO

YES

Is the blower obstructed? NO

YES

Find the source of the electrical problem.

Is the ignitor physically damaged? NO

YES

Replace ignitor.

Check the gap on the ignitor. Is the gap between 3/16” and 1/4”?

NO

YES

Adjust gap.

Check for loose wiring or restrictions in hose connections to the pressure switch. Are they ok?

NO

YES

Check the gap on the ignitor. Is the gap between 3/16” and 1/4”?

NO

YES

Advise troubleshooting flowchart.

The heater is equipped with a safety differential pressure switch. The switch is a normally open switch and located in the gas valve compartment. Temporarily place a jumper across the terminal of the switch. (Be sure to reinstall the cover.) Does the ignitor spark?

NO

YES

Replace circuit board.

Faulty wiring. Repair or replace wiring.

While the switch is temporarily bypassed, Check for 120V going from switch to circuit board. (Be sure to reinstall the cover.) Is there 120V entering the circuit board?

NO

YES

Does the fan blower turn on?

NO

YES

Is the power at the heater 120V?

NO

YES

Is the blower obstructed?

NO

YES

Find the source of the electrical problem.

Replace ignitor.

Correct wiring.

Remove obstruction & lubricate fan.

The fan is faulty and must be replaced.

Replace circuit board.

Faulty wiring. Repair or replace wiring.

While the switch is temporarily bypassed, Check for 120V going from switch to circuit board. (Be sure to reinstall the cover.) Is there 120V entering the circuit board?

NO

YES

The heater is equipped with a safety differential pressure switch. The switch is a normally open switch and located in the gas valve compartment. Temporarily place a jumper across the terminal of the switch. (Be sure to reinstall the cover.) Does the ignitor spark?

NO

YES

Replace circuit board.

Faulty wiring. Repair or replace wiring.

While the switch is temporarily bypassed, Check for 120V going from switch to circuit board. (Be sure to reinstall the cover.) Is there 120V entering the circuit board?

NO

YES

The heater is equipped with a safety differential pressure switch. The switch is a normally open switch and located in the gas valve compartment. Temporarily place a jumper across the terminal of the switch. (Be sure to reinstall the cover.) Does the ignitor spark?

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YES

Replace circuit board.

Faulty wiring. Repair or replace wiring.

While the switch is temporarily bypassed, Check for 120V going from switch to circuit board. (Be sure to reinstall the cover.) Is there 120V entering the circuit board?

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YES

The heater is equipped with a safety differential pressure switch. The switch is a normally open switch and located in the gas valve compartment. Temporarily place a jumper across the terminal of the switch. (Be sure to reinstall the cover.) Does the ignitor spark?

NO

YES

Replace circuit board.

Faulty wiring. Repair or replace wiring.

While the switch is temporarily bypassed, Check for 120V going from switch to circuit board. (Be sure to reinstall the cover.) Is there 120V entering the circuit board?

NO

YES

The heater is equipped with a safety differential pressure switch. The switch is a normally open switch and located in the gas valve compartment. Temporarily place a jumper across the terminal of the switch. (Be sure to reinstall the cover.) Does the ignitor spark?

NO

YES

Replace circuit board.

Faulty wiring. Repair or replace wiring.

While the switch is temporarily bypassed, Check for 120V going from switch to circuit board. (Be sure to reinstall the cover.) Is there 120V entering the circuit board?
During the ignition trial, does gas valve open?

YES: Test for 24V at valve during valve opening period (usually 10 seconds after power to the heater). Is there 24V to the valve?

YES: Possibly, the circuit board and/or wiring harness is faulty. These should be replaced.

NO: Check to make sure gas pressure is within minimum and maximum inputs, as indicated on CSA burner rating label. Is gas pressure OK?

YES: Correct problem.

NO: Replace gas valve.

NO: Possibly, the circuit board and/or wiring harness is faulty. These should be replaced.

Does the burner light?

NO: Is the gas cock in an ON position?

YES: Check to make sure gas pressure is within minimum and maximum inputs, as indicated on CSA burner rating label. Is gas pressure OK?

YES: Check the gap on the ignitor. Is the gap between 3/16” and 1/4”?

NO: Make sure gas lines were purged of air and/or correct pressure problems.

YES: Check to make sure gas pressure is within minimum and maximum inputs, as indicated on CSA burner rating label. Is gas pressure OK?

YES: The valve is faulty and must be replaced.

NO: Check to make sure gas pressure is within minimum and maximum inputs, as indicated on CSA burner rating label. Is gas pressure OK?

YES: Correct problem.

NO: Replace gas valve.

NO: Replace gas valve.

NO: Replace gas valve.

YES: The following can cause the heater to shut down:
* Improper grounding
* High winds
* Taking combustion air from the attic
* Dirty environment
* Baffle not located properly
* Fluctuating gas pressure

Troubleshooting ends.

Does the burner stay on for approx. 8 seconds and then shut off?

NO: Does the burner come on and then turn off immediately (1 or 2 seconds)?

YES: Check the gap on the ignitor. Is the gap between 3/16” and 1/4”?

NO: Adjust gap.

YES: Check to make sure that the pressure is within minimum and maximum inputs as indicated on the CSA burner rating label. Is gas pressure OK?

YES: Sensing rod is faulty or flame is weak. Check to make sure heater is operating at proper gas pressure as indicated on CSA burner rating label and then clean or replace sensing rod if needed.

NO: Correct problem.

NO: Differential switch may be faulty or there is a restriction in the exhaust or intake.

YES: Check the gap on the ignitor. Is the gap between 3/16” and 1/4”?

NO: Adjust gap.

YES: Measure the voltage across the red wire on the relay board and GND on the circuit board. Is there 24V?

NO: The relay board is faulty and must be replaced.

YES: With microammeter, check amperage at flame rod. Is it greater than 0.7 microamps?

YES: The valve is faulty and must be replaced.

NO: Repair or replace faulty wiring or thermostat.

YES: Measure the voltage across COM and HIGH on the TP-213-24V plug. Is there 24V?

NO: Repair or replace faulty wiring or thermostat.

YES: On the outside of the heater, check for 24V across COM and HIGH on the TP-213-24V plug. Is there 24V?

NO: Replace gas valve.

YES: The relay board is faulty and must be replaced.

NOTE: To confirm the heater is not in high-fire mode, check the manifold pressure. If 3.5” natural or 10” propane, the light is faulty and should be replaced. If the manifold pressure ranges from 2.3” to 2.8” Natural (model dependent) and 6.0” to 7.5” Propane (model dependent), the heater is in low-fire mode and the troubleshooting steps described here should be followed.

If heater does not go into high-fire mode, check the following.

- Troubleshooting ends.

WARNING: Bypassing any switch is for testing purposes only. Do not leave switch bypassed during normal operation or heater’s built-in safety mechanisms will be compromised.
DET Series

Parts Breakdown
# DET SERIES PARTS LISTING

<table>
<thead>
<tr>
<th>TP#</th>
<th>ITEM</th>
<th>TP#</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-1</td>
<td>CONTROL BOX COVER</td>
<td>TP-220</td>
<td>4&quot; STAINLESS STEEL TUBE CLAMP</td>
</tr>
<tr>
<td>TP-5</td>
<td>FLANGE GASKET</td>
<td>TP-223</td>
<td>GAS MANIFOLD</td>
</tr>
<tr>
<td>TP-9</td>
<td>CONDUIT COUPLING</td>
<td>TP-330</td>
<td>DIVIDER GROMMET</td>
</tr>
<tr>
<td>TP-10</td>
<td>CONDUIT 4&quot; X 1/2&quot;</td>
<td>TP-331</td>
<td>GREEN SELF TAP GROUND SCREW</td>
</tr>
<tr>
<td>TP-11</td>
<td>IGNITOR BOX</td>
<td>TP-501</td>
<td>DIVIDER PANEL</td>
</tr>
<tr>
<td>TP-12</td>
<td>IGNITOR BOX COVER</td>
<td>TP-503</td>
<td>RIGHT END PANEL</td>
</tr>
<tr>
<td>TP-13</td>
<td>8 x 1/2&quot; SELF-DRILLING SCREW</td>
<td>TP-504</td>
<td>CONTROL BOX</td>
</tr>
<tr>
<td>TP-17</td>
<td>SIGHT GLASS KIT</td>
<td>TP-550</td>
<td>SPARK TRANSFER WIRE - ORANGE</td>
</tr>
<tr>
<td>TP-20C</td>
<td>120&quot; ALUMINUM REFLECTOR</td>
<td>TP-551</td>
<td>MARK 10DX-117-10 CIRCUIT BOARD W/ PRE-PURGE</td>
</tr>
<tr>
<td>TP-20D</td>
<td>120&quot; STAINLESS STEEL REFLECTOR</td>
<td>TP-552</td>
<td>WIRING HARNESS</td>
</tr>
<tr>
<td>TP-21B</td>
<td>4&quot; TUBE CLAMP</td>
<td>TP-553</td>
<td>IGNITOR MOUNTING BRACKET</td>
</tr>
<tr>
<td>TP-26A</td>
<td>10 FT. ALUMINIZED COMBUSTION TUBE</td>
<td>TP-554</td>
<td>SPARK IGNITOR GASKET</td>
</tr>
<tr>
<td>TP-26B</td>
<td>10 FT. TITANIUM COMBUSTION TUBE</td>
<td>TP-555</td>
<td>SPARK IGNITOR ELECTRODE</td>
</tr>
<tr>
<td>TP-26C</td>
<td>10 FT. UNCOATED HOT ROLLED RADIANT TUBE</td>
<td>TP-556</td>
<td>1/4&quot; PRESSURE TUBE (VINYL)</td>
</tr>
<tr>
<td>TP-31B</td>
<td>CONTROL BOX MOUNTING BRACKET</td>
<td>TP-557</td>
<td>16&quot; DET BURNER TUBE WITH FLANGE</td>
</tr>
<tr>
<td>TP-44</td>
<td>AIR ORIFICE W/SCREEN - CONSULT FACTORY</td>
<td>TP-570</td>
<td>24V ISOLATION RELAY BOARD (POST PURGE OPTION)</td>
</tr>
<tr>
<td>TP-55A</td>
<td>FAN BLOWER</td>
<td>TP-579</td>
<td>WIRE HANGER W/OUT SPRING CLIP</td>
</tr>
<tr>
<td>TP-65I</td>
<td>INTERLOCKING 33&quot; BAFFLE SECTION</td>
<td>TP-825</td>
<td>40VA TRANSFORMER</td>
</tr>
<tr>
<td>TP-68A</td>
<td>STRAIN RELIEF BUSHING</td>
<td>TP-826</td>
<td>YELLOW OPERATIONAL INDICATOR LIGHT</td>
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<tr>
<td>TP-70</td>
<td>CONTROL BOX COVER GASKET (PER FOOT**)</td>
<td>TP-828</td>
<td>THERMOSTAT TERMINAL STRIP</td>
</tr>
<tr>
<td>TP-82</td>
<td>REFLECTOR CENTER SUPPORT</td>
<td>TP-832</td>
<td>24V TRANSFORMER</td>
</tr>
<tr>
<td>TP-108</td>
<td>5' AL TI TUBE, PAINTED WITH ONE CLAMP</td>
<td>TP-840</td>
<td>24V TRANSFORMER</td>
</tr>
<tr>
<td>TP-111</td>
<td>5' ALUM. TUBE, PAINTED WITH ONE CLAMP</td>
<td>TP-841</td>
<td>2-STAGE GAS ASSEMBLY</td>
</tr>
<tr>
<td>TP-112</td>
<td>5' REFLECTOR</td>
<td>TP-1325</td>
<td>2-STAGE GAS ASSEMBLY</td>
</tr>
<tr>
<td>TP-122</td>
<td>GASKET FOR AIR ORIFICE &amp; AIR COLLAR</td>
<td>TP-1602</td>
<td>LEFT END PANEL</td>
</tr>
<tr>
<td>TP-200A</td>
<td>BURNER (50 TO 100 MBTU/H)</td>
<td>TP-1602A</td>
<td>LEFT END PANEL (POST PURGE OPTION)</td>
</tr>
<tr>
<td>TP-201</td>
<td>BURNER (125 TO 200 MBTU/H)</td>
<td>TP-1651</td>
<td>TRITON 2461D DIAGNOSTIC SPARK BOARD (POST PURGE)</td>
</tr>
<tr>
<td>TP-204</td>
<td>GAS ORIFICE - CONSULT FACTORY</td>
<td>TP-NOPS</td>
<td>N.O. Pressure Switch (Select Switch Below, BTU Dependent)</td>
</tr>
<tr>
<td>TP-208</td>
<td>&quot;Z&quot; MOUNTING BRACKET</td>
<td>(TP-264B)</td>
<td>DIFFERENTIAL PRESSURE SWITCH - 50 TO 100 MBTU/H</td>
</tr>
<tr>
<td>TP-212</td>
<td>1/2&quot; X 3&quot; PIPE NIPPLE</td>
<td>(TP-264E)</td>
<td>DIFFERENTIAL PRESSURE SWITCH - 125 &amp; 150 MBTU/H</td>
</tr>
<tr>
<td>TP-217</td>
<td>PRESSURE BARB FITTING</td>
<td>(TP-264D)</td>
<td>DIFFERENTIAL PRESSURE SWITCH - 175 MBTU/H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(TP-264F)</td>
<td>DIFFERENTIAL PRESSURE SWITCH - 200 MBTU/H</td>
</tr>
</tbody>
</table>

* * 6' TOTAL NEEDED TO COVER OUTER EDGES OF A BURNER BOX
Kit Contents & Product Features

Kit contents for the DET Series are shown below. Reference the proper column for your particular models length.

<table>
<thead>
<tr>
<th>Filled By:</th>
<th>DET Series Kit Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP#</td>
<td>Description</td>
</tr>
<tr>
<td>TP-19B</td>
<td>4” Hangers</td>
</tr>
<tr>
<td>TP-21B</td>
<td>4” Tube Clamps</td>
</tr>
<tr>
<td>TP-82</td>
<td>4” Refl. Cntr. Sprt.</td>
</tr>
<tr>
<td>TP-105</td>
<td>Reflector End Caps</td>
</tr>
<tr>
<td>IOM</td>
<td>Install / Op Manual</td>
</tr>
</tbody>
</table>

**Notes:**
*One 4” stainless steel butt clamp (TP-220) is provided for each 175,000-200,000 BTU models. Place as shown in IOM.*

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**Product Features**

**APPROVALS**
- CSA/AGA.
- Commercial approval.

**BURNER SIGHT GLASS**
- For burner inspection.

**COMBUSTION AIR INLET & VENT**
- 4” Duct.

**CONTROLS**
- 100% Safety shut off.
- Differential pressure switch.
- Direct spark ignition.
- Flame rod sensing.
- Pre-purge controls.
- Potted circuit board.

**ENAMELED CONTROL BOX**
- Outside air collar (4”) attached.
- Totally enclosed components.

**EMITTER & COMBUSTION TUBES**
- Titanium combustion chamber (first 10’ section) 150-200 MBTU/H models.
- Aluminized combustion chamber (second 10’ section) 150-200 MBTU/H models.
- Aluminized combustion chamber (first 10’ section) 50-125 MBTU/H models.
- 16ga. 4” O.D. hot-rolled steel radiant tubes.
- Combustion chamber coated with high temperature, corrosion resistant black coating. .95 emissivity. Slip fit connection.

**GAS CONNECTION**
- 1/2” Male pipe nipple.

**MOUNTING ANGLE**
- 0 to 45 degrees from horizontal.

**MOUNTING HEIGHTS**

<table>
<thead>
<tr>
<th></th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50,000 BTU</td>
<td>10’</td>
<td>15’</td>
</tr>
<tr>
<td>60,000 BTU</td>
<td>11’</td>
<td>18’</td>
</tr>
<tr>
<td>75,000 BTU</td>
<td>12’</td>
<td>20’</td>
</tr>
<tr>
<td>100,000 BTU</td>
<td>13’</td>
<td>23’</td>
</tr>
<tr>
<td>125,000 BTU</td>
<td>15’</td>
<td>25’</td>
</tr>
<tr>
<td>150,000 BTU</td>
<td>16’</td>
<td>30’</td>
</tr>
<tr>
<td>175,000 BTU</td>
<td>17’</td>
<td>35’</td>
</tr>
<tr>
<td>200,000 BTU</td>
<td>18’</td>
<td>40’</td>
</tr>
</tbody>
</table>

**WARRANTY**
- 1 year-Burner box components.
- 2 years-Combustion and radiant tubes.
- 3 years-Burner.

**OTHER**
- One reflector center support per heater.
- Turbulator baffle provided.
- Made in USA.
- Visit www.reverberray.com

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