

○ HL3 ○ DX3 ○ XTS3 ○ DET3 ● DES3

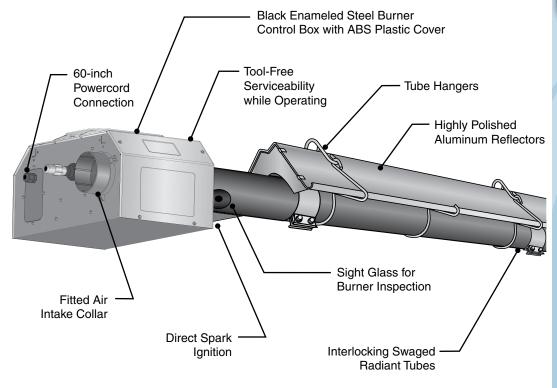
DES3 SERIES

GAS-FIRED, SINGLE STAGE, ECONOMY INFRARED HEATERS

Streamlined for economy and designed without sacrificing performance, the DES3 Series represents quality at an economical price. Utilizing a direct spark ignition system and hot-rolled steel emitter tubes, this series is the best in this class of equipment.

COMMERCIAL & INDUSTRIAL

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 Aluminized Radiant Tubes Hot Surface Ignition • • Stainless Steel Flexible Gas Connector 0

•

•

•

•

Two-stage Technology Interlocking Swaged Tubes

Coated Titanium or Aluminized Combustion Chamber

Stainless Steel Models Available*

Ball Valve (1/2" Brass) with Pressure Tap

Reflector End Caps Optional 'U' or 'L' Configurations Available

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

DETROIT RADIANT PRODUCTS CO.

21400 Hoover Rd. Warren, MI 48089-3162

0

0

0

•

•

•

•

(586) 756-0950 Phone: Toll Free: 1-800-222-1100 (586) 756-2626 Fax: E-mail: sales@drp-co.com Website: www.reverberray.com

VISIT OUR WEBSITE FOR:

- Product Specs
- Parts Support
- Dealer Locator
- Theory of Infrared

• C.A.D. Library

Design Guidelines

- Applications
- and More!

DES3 SERIES

SPECIFICATIONS

PRODUCT SPECIFICATIONS

Input Range: 50,000 to 200,000 BTU/h

Lengths: 20-60 Ft.

Gas Type: Natural or Propane

Combustion Chamber: Titanium Stabilized or Aluminized Steel

Radiant Tubes: Hot-Rolled Steel

Certification: CSA, IAS

Limited Warranty: 1-2-3 (Components-Tubes-Burner)

OPTIONAL EQUIPMENT

U or L Configurations: Available (RUP, REP)

Stainless Steel Upgrades: Available (SSRAO, SSC, SSB)

24V Controls: Available (use with R8285B)

Available (IND-LT) **Indicator Lights:**

Protective Guards: Available (PG)

Side Shield Extensions: Available (SSE)

Outdoor Approval: Not Available

ELECTRICAL

- 120V, 60Hz, 3-wire.
- 1.7A starting, 1.1A running.

CONTROLS

- Potted circuitry.
- 120V thermostat control.
- ABS plastic cover.

TUBE CONSTRUCTION

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

REFLECTORS

- Highly polished aluminum.
- 0° 45° rotatable angle

IGNITION/SENSE

- · Direct spark ignition.
- Flame rod sense.

VENTING

- 4" single vent.
- 6" common vent (with single thermostat).

RE-VERBER-RAY

RADIANT GAS HEATER

GAS CONNECTION

• 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.
- Turbulator baffles.

available **des3** models & clearances

MODEL #	GAS*	INPUT BTU/h	LENGTH	WEIGHT	MOUNTING HEIGHTS**
DES3-20-50	N or LP	50,000	21'-8"	120 lbs.	9' to 14'
DES3-20-60	N or LP	60,000	21'-8"	120 lbs.	10' to 15'
DES3-20-75	N or LP	75,000	21'-8"	120 lbs.	11' to 18'
DES3-30-50	N or LP	50,000	31'-4"	160 lbs.	10' to 15'
DES3-30-60	N or LP	60,000	31'-4"	160 lbs.	11' to 18'
DES3-30-75	N or LP	75,000	31'-4"	160 lbs.	12' to 20'
DES3-30-100	N or LP	100,000	31'-4"	160 lbs.	13' to 23'
DES3-40-50	N or LP	50,000	41'-0"	190 lbs.	11' to 18'
DES3-40-60	N or LP	60,000	41'-0"	190 lbs.	11' to 18'
DES3-40-75	N or LP	75,000	41'-0''	190 lbs.	12' to 20'
DES3-40-100	N or LP	100,000	41'-0"	190 lbs.	13' to 23'
DES3-40-125	N or LP	125,000	41'-0"	190 lbs.	14' to 25'
DES3-40-150	N or LP	150,000	41'-0"	190 lbs.	15' to 27'
DES3-50-100	N or LP	100,000	50'-8''	235 lbs.	15' to 27'
DES3-50-125	N or LP	125,000	50'-8"	235 lbs.	15' to 27'
DES3-50-150	N or LP	150,000	50'-8"	235 lbs.	16' to 30'
DES3-50-175	N or LP	175,000	50'-8"	235 lbs.	17' to 35'
DES3-50-200	N or LP	200,000	50'-8"	235 lbs.	18' to 40'
DES3-60-125	N or LP	125,000	60'-4''	265 lbs.	16' to 30'
DES3-60-150	N or LP	150,000	60'-4''	265 lbs.	17' to 35'
DES3-60-175	N or LP	175,000	60'-4''	265 lbs.	17' to 35'
DES3-60-200	N or LP	200,000	60'-4''	265 lbs.	18' to 40'

^{*} Specify natural (N) or propane (LP) gas.

^{**} Factory recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from the above data.



















DES3 CLEARANCES TO COMBUSTIBLES (IN.) MOUNTING F SIDE FRONT BEHIND MODEL NO. ANGLE TOP **BELOW** DES3-(20,30,40)-(50,6 47 6 47 10 W/1 side shield Ö° 29 47 W/2 side shields No 47 20 ft. from burne O° 30 O DES3-(20,30,40)-75 60 45° 39 60 W/1 side shield 0° 29 60 W/2 side shields O° 60 20 ft. from burner Oo 30 DES3-(30,40,50)-100 66 4.59 39 10 66 W/1 side shield 00 29 66 W/2 side shields 16 66 20 ft from burner Ω° 30 76 DES3-(40,50,60)-125 0° 20 459 58 76 0° W/1 side shield 76 42 W/2 side shields Oo 20 20 ft. from burne O° 24 81 DES3-(40,50,60)-150 45° 58 8 10 81 W/1 side shield 0° 42 8 81 0° 23 W/2 side shields 81 20 ft. from burner Oo 11 44 DES3-(50,60)-175 92 4.59 92 63 8 10 W/1 side shield 00 50 8 92 W/2 side shields O° 30 92 20 ft from burne nº 44 DES3-(50,60)-200 0° 41 41 94 63 8 10 94 W/1 side shield O° 54 8 94 W/2 side shields Oo 30 94 44 20 ft. from burner

Always maintain the published clearances to combustibles.

Clearances published in DES3 Series manual and on warning label supersede data shown on this brochure.