

Detroit Radiant Heaters



DETROIT RADIANT HL3 LOW-INTENSITY TWO-STAGE INFRARED TUBE HEATERS

The HL3 Series, packed with quality features, represents today's most energy efficient line of infrared tube heaters. Our patented two-stage technology, incorporated into the HL3 Series, provides more comfort while saving valuable energy dollars, superior comfort, indoor air quality, reduced energy consumption, flexibility, durability and radiant efficiency. 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.



HL3

- **MADE in U.S.A.**
- Pre - and Post - purge controls
- Self-diagnostic LED, microprocessor based circuitry
- Independent control-air-gas compartments with too-free access
- Reliable hot surface ignition
- Stainless steel flexible gas connector included
- 24 volt controls and power cord standard

Model #	Gas Type	Operation	Btu's	Description
HL20-65/50P	LP	Hot Surface Ignition	65,000	Two-Stage Tube Heater, 20' Aluminized Combustion Tube Heater
HL20-75/50P	LP	Hot Surface Ignition	75,000	Two-Stage Tube Heater, 20' Aluminized Combustion Tube Heater
HL30-65/50P	LP	Hot Surface Ignition	65,000	Two-Stage Tube Heater, 30' Aluminized Combustion Tube Heater
HL30-75/50P	LP	Hot Surface Ignition	75,000	Two-Stage Tube Heater, 30' Aluminized Combustion Tube Heater
HL30-100/65P	LP	Hot Surface Ignition	100,000	Two-Stage Tube Heater, 30' Aluminized Combustion Tube Heater
HL30-125/95P	LP	Hot Surface Ignition	125,000	Two-Stage Tube Heater, 30' Aluminized Combustion Tube Heater
HL40-75/50P	LP	Hot Surface Ignition	75,000	Two-Stage Tube Heater, 40' Aluminized Combustion Tube Heater
HL40-100/65P	LP	Hot Surface Ignition	100,000	Two-Stage Tube Heater, 40' Aluminized Combustion Tube Heater
HL40-125/95P	LP	Hot Surface Ignition	125,000	Two-Stage Tube Heater, 40' Aluminized Combustion Tube Heater
HL40-150/100P	LP	Hot Surface Ignition	150,000	Two-Stage Tube Heater, 40' Titanium Combustion Tube Heater
HL40-175/125P	LP	Hot Surface Ignition	175,000	Two-Stage Tube Heater, 40' Titanium Combustion Tube Heater
HL50-125/95P	LP	Hot Surface Ignition	125,000	Two-Stage Tube Heater, 50' Aluminized Combustion Tube Heater
HL50-150/100P	LP	Hot Surface Ignition	150,000	Two-Stage Tube Heater, 50' Titanium Combustion Tube Heater
HL50-175/125P	LP	Hot Surface Ignition	175,000	Two-Stage Tube Heater, 50' Titanium Combustion Tube Heater
HL50-200/145P	LP	Hot Surface Ignition	200,000	Two-Stage Tube Heater, 50' Titanium Combustion Tube Heater
HL60-150/100P	LP	Hot Surface Ignition	150,000	Two-Stage Tube Heater, 60' Titanium Combustion Tube Heater
HL60-175/125P	LP	Hot Surface Ignition	175,000	Two-Stage Tube Heater, 60' Titanium Combustion Tube Heater
HL60-200/145P	LP	Hot Surface Ignition	200,000	Two-Stage Tube Heater, 60' Titanium Combustion Tube Heater
HL70-175/125P	LP	Hot Surface Ignition	175,000	Two-Stage Tube Heater, 70' Titanium Combustion Tube Heater
HL70-200/145P	LP	Hot Surface Ignition	200,000	Two-Stage Tube Heater, 70' Titanium Combustion Tube Heater

* HL3 Series are also offered in Natural Gas



Detroit Radiant Heaters



DETROIT RADIANT DX3L LOW-INTENSITY SINGLE STAGE INFRARED TUBE HEATERS

Packed with quality features, the DX3L represents the highest in quality, single-stage, low intensity tube heaters. Performance is enhanced through the use of a specially designed stainless steel burner and black coated titanium stabilized and/or aluminized coated steel radiant tube exchangers. The DX3L Series offers superior low intensity heat, performance, and longevity.



DX3L

- **MADE in U.S.A.**
- Pre - and Post - purge controls
- Self-diagnostic LED, microprocessor based circuitry
- Independent control-air-gas compartments with too-free access
- Reliable hot surface ignition
- Stainless steel flexible gas connector included
- 24 volt controls and power cord standard

Model #	Gas Type	Operation	Btu's	Description
DX20-50P	LP	Hot Surface Ignition	50,000	Single Stage Tube Heater, 20' Aluminized Combustion Tube Heater
DX20-60P	LP	Hot Surface Ignition	60,000	Single Stage Tube Heater, 20' Aluminized Combustion Tube Heater
DX20-75P	LP	Hot Surface Ignition	75,000	Single Stage Tube Heater, 20' Aluminized Combustion Tube Heater
DX30-50P	LP	Hot Surface Ignition	50,000	Single Stage Tube Heater, 30' Aluminized Combustion Tube Heater
DX30-60P	LP	Hot Surface Ignition	60,000	Single Stage Tube Heater, 30' Aluminized Combustion Tube Heater
DX30-75P	LP	Hot Surface Ignition	75,000	Single Stage Tube Heater, 30' Aluminized Combustion Tube Heater
DX30-100P	LP	Hot Surface Ignition	100,000	Single Stage Tube Heater, 30' Aluminized Combustion Tube Heater
DX30-125P	LP	Hot Surface Ignition	125,000	Single Stage Tube Heater, 30' Aluminized Combustion Tube Heater
DX40-50P	LP	Hot Surface Ignition	50,000	Single Stage Tube Heater, 40' Aluminized Combustion Tube Heater
DX40-60P	LP	Hot Surface Ignition	60,000	Single Stage Tube Heater, 40' Aluminized Combustion Tube Heater
DX40-75P	LP	Hot Surface Ignition	75,000	Single Stage Tube Heater, 40' Aluminized Combustion Tube Heater
DX40-100P	LP	Hot Surface Ignition	100,000	Single Stage Tube Heater, 40' Aluminized Combustion Tube Heater
DX40-125P	LP	Hot Surface Ignition	125,000	Single Stage Tube Heater, 40' Aluminized Combustion Tube Heater
DX40-150P	LP	Hot Surface Ignition	150,000	Single Stage Tube Heater, 40' Titanium Combustion Tube Heater
DX40-175P	LP	Hot Surface Ignition	175,000	Single Stage Tube Heater, 40' Titanium Combustion Tube Heater
DX50-100P	LP	Hot Surface Ignition	100,000	Single Stage Tube Heater, 50' Aluminized Combustion Tube Heater
DX50-125P	LP	Hot Surface Ignition	125,000	Single Stage Tube Heater, 50' Aluminized Combustion Tube Heater
DX50-150P	LP	Hot Surface Ignition	150,000	Single Stage Tube Heater, 50' Titanium Combustion Tube Heater
DX50-175P	LP	Hot Surface Ignition	175,000	Single Stage Tube Heater, 50' Titanium Combustion Tube Heater
DX50-200P	LP	Hot Surface Ignition	200,000	Single Stage Tube Heater, 50' Titanium Combustion Tube Heater
DX60-125P	LP	Hot Surface Ignition	125,000	Single Stage Tube Heater, 60' Aluminized Combustion Tube Heater
DX60-150P	LP	Hot Surface Ignition	150,000	Single Stage Tube Heater, 60' Titanium Combustion Tube Heater
DX60-175P	LP	Hot Surface Ignition	175,000	Single Stage Tube Heater, 60' Titanium Combustion Tube Heater
DX60-200P	LP	Hot Surface Ignition	200,000	Single Stage Tube Heater, 60' Titanium Combustion Tube Heater
DX70-175P	LP	Hot Surface Ignition	175,000	Single Stage Tube Heater, 70' Titanium Combustion Tube Heater
DX80-200P	LP	Hot Surface Ignition	200,000	Single Stage Tube Heater, 80' Titanium Combustion Tube Heater

* DX3L Series are also offered in Natural Gas



Non-stock/special order items are not cancellable or returnable

Shop online at www.raymurray.com or call **800-628-5044**

Detroit Radiant Heaters

HL3 AND DX3L ACCESSORIES

The most common accessories are listed below - additional unit models and accessories may be available. Please reach out to RMI Customer Service or RMI Technical Support for assistance and the most up-to-date information in sizing the appropriate tube heater to your application.

Model #	Description
DTH-10EA	10' Heater Extension Assembly
DTH-20EA	20' Heater Extension Assembly
DTH-TR60	5' Heater Extension Assembly
HD-THCS	5' Bulldog Chain Coil Set w/ (2) S-hooks for hanging heater, working load limit 330 lbs each
HD-SH	Heavy Duty S-hook w/ working load limit of 330 lbs.
DTH-CS	5' Bulldog Chain Coil Set w/ (2) S-hooks for hanging heater, working load limit 155 lbs each
SILSEAL	Silicone Seal, (Low Intensity Tube Heaters)
OD-KIT	Outdoor Approval Kit, (HL3, DX3L, LD3 and LS3 Series)
24VAO	24V Controls (DX2-SB, DX2-SS, DES3 Series)
DTH-ERK	External Relay Kit (HL3, HL2, CX3L, LD3, LS3 Series)required multiple heaters on one thermostat (40VA needed to power the control)
DTH-ERK-HE	External Relay Kit, Utilizes a rugged NEMA 6P Rating (40VA needed to power the control)
FC-24PVC-AO	Upgrads Standard Stainless Steel FC-24 (24") Flexible Gas Connector
DTH-5EA-SUB	(4" Models Only) Upgrades (1) 10'piece of Radiant Tubing & Reflector w/ (2) 5' pieces for making "U" heaters from 30', 50' and 70' Models
DTH-REP	Reflector and Elbow Package
DTH-BK	Brass Knuckles, Reflector Mounting Bracket
DTH-RUP	Reflector and "U" Bend Package, 1-TF1B and 1-RU
DTH-SSE	62" long x 10.5" wide, Side Shield Extension, Direct Infrared Rays Downward
DTH-SMB	Single Mount Bracket for U-Shaped configured heaters

VENTING GUIDELINES FOR DETROIT RADIANT TUBE HEATERS

Single Heater Intake		Dual Heater Intake	
Air Intake Duct Size	Max Intake Length	Duct Size	Max Intake Length
4"	20'	4" (single) / 6" (dual)	20'
5"	30'	4" (single) / 8" (dual)	30'
6"	40'	Consult Factory	

*No more than two 90° elbows are allowed

*Allow for expansion. Use a 4" flexible hose to connect the duct to the burner control box



Detroit Radiant Heaters



DETROIT RADIANT LD3 AND LS3 LOW-CLEARANCE INFRARED TUBE HEATERS

The LD3 Series extends the energy saving benefits of two-stage technology to many commercial, industrial and residential applications. The LS3 Series single stage heater represents the finest in single stage, low BTU's infrared tube heaters. Designed for lower mounting heights, the LD3 and LS3 Series is ideal for low ceiling commercial/industrial areas such as entry ways, mezzanines, lunch rooms and restaurant patios. Specific models are suitable in residential garages, enclosed swimming pools, solariums and porches. These heaters can also be designed in a U- and L- shaped configuration to fit tighter spaces.

- **MADE in U.S.A.**
- 60" Powercord Connection, Operation Indicator Lights, Fitted Air Intake Collar, Site Glass for Burner Inspection
- Separated Air and Gas Burner Chamber
- Black Enameled Steel Burner Control Box w/ ABS Plastic Cover
- Tool-Free Serviceability while Operating, Reflector End Caps w/ Clips, Tube Hangers, High Polished Aluminum Reflectors, Interlocking Swaged Radiant Tubes, Downstream Dimpled Baffle MAX Radiant Tube



LD3

LS3

LD3 LOW CLEARANCE TUBE HEATER

Model #	Gas Type	Operation	Btu's	Description
LD15-40/28P	LP	Hot Surface Ignition w/ Flame Rod Sensing	40,000	Low-Clearance Two-Stage Tube Heaters 15'
LD15-50/35P	LP	Hot Surface Ignition w/ Flame Rod Sensing	50,000	Low-Clearance Two-Stage Tube Heaters 15'
LD20-40/28P	LP	Hot Surface Ignition w/ Flame Rod Sensing	40,000	Low-Clearance Two-Stage Tube Heaters 20'
LD20-50/35P	LP	Hot Surface Ignition w/ Flame Rod Sensing	50,000	Low-Clearance Two-Stage Tube Heaters 20'
LD30-50/35P	LP	Hot Surface Ignition w/ Flame Rod Sensing	50,000	Low-Clearance Two-Stage Tube Heaters 30'

* Also available for Natural Gas - add "N" after Model #

LS3 LOW CLEARANCE TUBE HEATER

Model #	Gas Type	Operation	Btu's	Description
LS10-25P	LP	Hot Surface Ignition w/ Flame Rod Sensing	25,000	Low-Clearance Single Stage Tube Heater, 10'
LS10-30P	LP	Hot Surface Ignition w/ Flame Rod Sensing	30,000	Low-Clearance Single Stage Tube Heater, 10'
LS15-25P	LP	Hot Surface Ignition w/ Flame Rod Sensing	25,000	Low-Clearance Single Stage Tube Heater, 15'
LS15-30P	LP	Hot Surface Ignition w/ Flame Rod Sensing	30,000	Low-Clearance Single Stage Tube Heater, 15'
LS15-40P	LP	Hot Surface Ignition w/ Flame Rod Sensing	40,000	Low-Clearance Single Stage Tube Heater, 15'
LS15-50P	LP	Hot Surface Ignition w/ Flame Rod Sensing	50,000	Low-Clearance Single Stage Tube Heater, 15'
LS20-40P	LP	Hot Surface Ignition w/ Flame Rod Sensing	40,000	Low-Clearance Single Stage Tube Heater, 20'
LS20-50P	LP	Hot Surface Ignition w/ Flame Rod Sensing	50,000	Low-Clearance Single Stage Tube Heater, 20'
LS30-50P	LP	Hot Surface Ignition w/ Flame Rod Sensing	50,000	Low-Clearance Single Stage Tube Heater, 30'

* Also available for Natural Gas - add "N" after Model #



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Detroit Radiant Heaters



DETROIT RADIANT DR HIGH-INTENSITY INFRARED CERAMIC HEATER

The DR Series infrared ceramic heaters represent the preferred method of spot heating a portion of a large space. This unvented heater is commonly used in areas of high air filtration, high ceilings, and spot heating applications such as warehouses, manufacturing and maintenance facilities, distribution facilities, etc.

Specify 25 Volt or 120 Volt when ordering Direct Spark Ignition Models.

- **MADE in U.S.A.**
- Exclusive Ceramic Burner
- Stainless Steel Rods
- Highly Polished Aluminum Reflector
- Potted (water resistant) Circuitry
- CSA Designed Certified
- Even Level of Heat Distribution for Superior Comfort
- Reduced Energy Consumption, Radiant Efficiency, Low Installation Costs



DR90

120V Model #	25V Model #	Millivolt Model #	Operation	Btu's	Description	Width	Depth	Height
DR30PFS-2-120	DR30PFS-2-25V	DR30PMV-2	Direct Spark	30,000	High-Intensity Infrared Ceramic Heater	12-3/4"	15-1/4"	22-1/2"
DR45PFS-2-120	DR45PFS-2-25V	DR45PMV-2	Direct Spark	45,000	High-Intensity Infrared Ceramic Heater	19-1/8"	15-1/4"	22-1/2"
DR50PFS-2-120	DR50PFS-2-25V	DR50PMV-2	Direct Spark	50,000	High-Intensity Infrared Ceramic Heater	19-1/8"	15-1/4"	22-1/2"
DR55PFS-2-120	DR55PFS-2-25V	DR55PMV-2	Direct Spark	55,000	High-Intensity Infrared Ceramic Heater	19-1/8"	15-1/4"	22-1/2"
DR60PFS-2-120	DR60PFS-2-25V	DR60PMV-2	Direct Spark	60,000	High-Intensity Infrared Ceramic Heater	19-1/8"	15-1/4"	22-1/2"
DR75PFS-2-120	DR75PFS-2-25V	DR75PMV-2	Direct Spark	75,000	High-Intensity Infrared Ceramic Heater	26-5/8"	15-1/4"	22-1/2"
DR80PFS-2-120	DR80PFS-2-25V	DR80PMV-2	Direct Spark	80,000	High-Intensity Infrared Ceramic Heater	26-5/8"	15-1/4"	22-1/2"
DR85PFS-2-120	DR85PFS-2-25V	DR85PMV-2	Direct Spark	85,000	High-Intensity Infrared Ceramic Heater	26-5/8"	15-1/4"	22-1/2"
DR90PFS-2-120	DR90PFS-2-25V	DR90PMV-2	Direct Spark	90,000	High-Intensity Infrared Ceramic Heater	26-5/8"	15-1/4"	22-1/2"
DR100PFS-2-120	DR100PFS-2-25	DR100PMV-2	Direct Spark	100,000	High-Intensity Infrared Ceramic Heater	26-5/8"	15-1/4"	22-1/2"
DR130PFS-2-120	DR130PFS-2-25	DR130PMV-2	Direct Spark	130,000	High-Intensity Infrared Ceramic Heater	32"	15-1/4"	22-1/2"
DR160PFS-2-120	DR160PFS-2-25	DR160PMV-2	Direct Spark	160,000	High-Intensity Infrared Ceramic Heater	38-1/2"	15-1/4"	22-1/2"

* Also available for Natural Gas - replace "P" with "N" in Model #

DR ACCESSORIES

The most common accessories are listed below - additional unit models and accessories may be available. Please reach out to RMI Customer Service or RMI Technical Support for assistance and the most up-to-date information in sizing the appropriate tube heater to your application.

Model #	Description
CSXXXX	5' Chain Set w/ 4-S Hooks
FC-24	24" Stainless Steel Flexible (1/2" I.D.) Connector w/ Fittings
FC-24PVC	FC-24 w/ PVC Protective Coating
RK-130	Columbus Electric MV Thermostat, 35-75 F Deg, (used 250, 500 or 750 MV Systems)

