



## TABLE OF CONTENTS

Product Selection .....	3
Available Tube Heater Models .....	4
Add-On/Upgrade Items .....	5
Stainless Steel Add-Ons & Upgrades .....	7
Extension & Hardware Accessories.....	8
Stainless Steel Accessories.....	10
Replacement Packages & Conversion Pricing.....	11

## LIMITED WARRANTY GUIDELINES & OPTIONS

All limited warranties are defined in the product insert manual for each heater series. Please contact the factory for further information on the terms and conditions. Consult factory for warranties pertaining to stainless steel heaters and/or accessories.

HEATER SERIES	BURNER BOX COMPONENTS	TUBES / EXCHANGERS	BURNER
MP, HL3, DX3L, -SS, -SB, HL2-DS, SV, CL3, CX3	STANDARD 3 YEARS	STANDARD 5 YEARS	STANDARD 10 YEARS
LD3, LS3, DET3, DES3	STANDARD 1 YEAR	STANDARD 3 YEARS	STANDARD 5 YEARS

EXTENDED WARRANTY OPTIONS <sup>1</sup>	
[ACTB] <b>CWO</b>	Control Extended Warranty. (Max. 4 year extension). _____ per year, per heater.
[ACTB] <b>MPCWO</b>	MP Series Control Extended Warranty. (Max. 4 year extension). _____ per year, per heater.
[ACTB] <b>EWO</b>	Exchanger Extended Warranty Option. (Max. 10 year total or 5 year extension) _____ per year, per tube.

<sup>1</sup> Prior approval from the factory is required when quoting extended warranties.







# AVAILABLE UPGRADE OPTIONS

**NOTE:** Items on this page must be ordered at time of production. Be sure to tag appropriate heaters for upgrades.

PART NO.	DESCRIPTION	QTY.
[ACTB] <b>SILSEAL</b>	Silicone seal the inside of a control box of any low intensity tube heater. Done at the time of production, this seal will protect the internal components against contaminants that might otherwise penetrate the box. SILSEAL is ideal for high moisture areas such as a car wash. It is standard on all -SB and -SS models.	
[ACTB] <b>OD-KIT</b>	Outdoor approval kit for MP, HL, DX, CL3, CX3, LD3, and LS3 series. For use when applying heaters outdoor. Includes: 24 V control cord (when applicable), SILSEAL, 90° air inlet collar, and outdoor designation on rating label.	
[ACTB] <b>IND-LT</b>	Indicator lights for DES3 Series heaters. First light indicates burner and differential switch operation. Second light indicates valve operation. Maximum one IND-LT set per heater. <b>NOTE:</b> Standard feature included on all other series.	
[ACTB] <b>PC-60</b>	Three prong, 60 inch power cord set. Can be added to the SV exhauster pump. This is an add-on option only. <b>NOTE:</b> Standard feature included on all other series.	
[ACTB] <b>24VAO</b>	24 V controls for DX2-SB, DX2-SS, & DES3 series. Field supply 24 V to control heater operation (one 24VAO req. per heater). Allows wiring onto separate circuits. Includes internal relay, power cord, and terminal block. External transformer (40 VA) required.	

PART NO.	DESCRIPTION	QTY.
[ACTB] <b>FC-24PVC-AO</b>	Upgrades standard stainless steel FC-24 (24") flexible gas connector to a 24" PVC coated stainless steel flexible gas connector.	
[ACTB] <b>FC-36-AO</b>	Upgrades stainless steel FC-24 (24") flex connector to a stainless steel FC-36 (36") flexible gas connector.	
For LD3/LS3 30' models only [ACTB] <b>LV3-5EA-SUB</b>	Upgrades (1) 10' piece of radiant tubing & reflector with (2) 5' pieces. (1) clamp and (1) hanger included. This is ideal for making "U" heaters from 30' models. "U" or "L" fittings sold separately. Maximum one per heater. Add-on option only.	
Intended for MP series 25' models [ACTB] <b>2.5EA-SUB</b>	Upgrades (1) 5' piece of radiant tubing & reflector with (2) 2.5' pieces. (1) clamp and (1) hanger included. This is ideal for making "U" heaters from 25' models. "U" or "L" fittings sold separately. Maximum one per heater. Add-on option only. Not material-specific and can be used on 5' extension packages.	
For 4" models only [ACTB] <b>5EA-SUB</b>	Upgrades (1) 10' piece of radiant tubing & reflector with (2) 5' pieces. (1) clamp and (1) hanger included. This is ideal for making "U" heaters from 30', 50', & 70' models. Maximum one per heater. Add-on option only. Not material-specific and can be used on 10' extension packages.	

## Hi-Low Relay Panels / Boards

For HL3, DX3L, HL2, CL3, CX3, LD3, and LS3 series heaters, isolation relays must be used any time two or more heaters are operating on the same thermostat (and/or are common vented). The ERK and ERK-HE are external relay kits. One kit is needed per heater. An external transformer (e.g. 4000-01V) is needed to power the control and one per thermostat is required. The HL3, HL2, and CL3 series have an internal relay option to have relays installed at the time of production. Specify the HLRP for HL3 and CL3 models only. Specify the HLRB for HL2 models only. **NOTE:** HLRPs are not necessary on the DET3 series. Refer to the Controls Price List for an external relay panel option. Relay panels are pre-wired and mounted inside a NEMA(1) enclosure. Available with 2, 4, 6, or 10 relays per NEMA(1) box. Each relay can accommodate one heater. Each panel has one 40 VA transformer internally mounted.

[ACTB] <b>HLRP</b>	Optional internal dual relays for HL3 & CL3 Series heaters. (TP-1325) for replacement parts ordering.
-----------------------	---

[ACTB] <b>HLRB</b>	Optional internal dual relays for HL2 Series heaters. (TP-825) for replacement parts ordering.
-----------------------	--



[ACTB]  
**ERK**

The External Relay Kit accessory can be used on HL3, HL2, CL3, CX3, DX3L, LD3, & LS3 models that require multiple heaters on one thermostat. This can mount on or near the heater. One ERK is needed per heater. Used in standard environments. An external transformer (40 VA) is needed to power the control.

1 lb.



[ACTB]  
**ERK-HE**

Similar to ERK but utilizes a rugged NEMA 6P rated enclosure for use in wet and corrosive environments. An external transformer (40 VA) is needed to power the control.

1 lb.

For CL3/CX3 series 30' models only [ACTB] <b>C30-5EA-SUB</b>	Upgrades (1) 10' piece of radiant tubing & reflector with (2) 5' pieces. (1) clamp and (1) hanger included. This is required for making "U" or "L" heaters from 30' CL3/CX3 series heaters. Maximum one per heater. Add-on option only.
--	---

For DET3/DES3 series models only [ACTB] <b>ALUM-AO</b>	Upgrade hot rolled steel radiant tubes to black coated 16 ga aluminized steel for maximum efficiency and longevity. Highly recommended in any contaminated or moisture laden environment. See below for quantities.
--	---

### REQUIRED ALUM-AO PER HEATER

\*150,000-200,000 BTU/h models require one less ALUM-AO.

MODEL LENGTH	10'	20'	30'	40'	50'	60'	70'	80'
QUANTITY	-	1	2	3*	4*	5*	-	-










# STAINLESS STEEL ACCESSORIES

PART NO.	DESCRIPTION	QTY.
Box ID  [ACTP] <b>10EA-SS</b>	10' heater extension assembly includes (1) 10', 4" diameter, 16 gauge, 304 grade stainless steel tube with high temperature black coating, (1) 10' 304 grade stainless steel reflector, (1) 4" S.S. reflector center support, (1) 4" S.S. tube clamp, & (1) 4" S.S. hanger. This extension must be shipped via truck line.	<b>35 lbs.</b>
Box ID [ACTP] <b>20EA-SS</b>	(2) 10EA-SSs in one small box.	<b>70 lbs.</b>
Box ID [ACTP] <b>30EA-SS</b>	(3) 10EA-SSs in one large box.	<b>110 lbs.</b>
Box ID [ACTP] <b>40EA-SS</b>	(4) 10EA-SSs in one large box.	<b>145 lbs.</b>
Box ID [ACTP] <b>TR60-SS</b>	5' heater extension assembly. See 10EA-SS for contents and specs. Item can be shipped via UPS.	<b>20 lbs.</b>
[ACTB] <b>THCS-SS</b>	30 in. stainless steel chain set with (2) "S" hooks. Suitable for hanging heater in tight applications such as car washes.	<b>1 lb.</b>
[ACTB] <b>THGH15-SS</b>	Stainless steel Gripple® tube heater hanging cables. 15" length of looped cable with a locking fastener per assembly. #2 cable with working load limit of 100 lbs. with a 5:1 load safety ratio.	<b>1 lb.</b>

## REQUIRED CHAIN OR CABLE SETS PER HEATER (FOR 10' CENTERS)

MODEL LENGTH	10'	15-20'	25-30'	35-40'	45-50'	55-60'	65-70'	80'
STRAIGHT*	4	5	6	7	8	9	10	11
w/TF1B-SS	-	6	8	8	10	10	12	12

[ACTB]  
**BK-SS**







Stainless steel "Brass Knuckles." Reflector mounting bracket attaches to wire hanger allowing the reflector to be mounted on a 15°, 30°, or 45° angle.

**1 lb.**

## REQUIRED BK FITTINGS PER HEATER (FOR 10' CENTERS)

MODEL LENGTH	10'	15-20'	25-30'	35-40'	45-50'	55-60'	65-70'	80'
STRAIGHT*	2	3	4	5	6	7	8	9

\*Straight refers to models in a straight configuration (10' centers). Consult factory for "U" configurations.

PART NO.	DESCRIPTION	QTY.
[ACTB] <b>TF1B-SS</b>	 4 in. 304 grade stainless steel 180° "U"-shaped fitting. See TF1B on page 6. Includes (1) stainless steel clamp, (1) stainless steel hanger, and (2) stainless steel reflector end caps with clips.	<b>13 lbs.</b>
[ACTB] <b>RU-SS</b>	 304 grade stainless steel reflector "U" to cover a TF1B-SS "U" fitting (not included). Field assembly required.	<b>12 lbs.</b>
[ACTB] <b>E6-SS</b>	 304 grade stainless steel elbow. 6" radius, 90° bend, 4" diameter, 16 gauge with black coating. Includes (1) stainless steel tube clamp, (1) stainless steel hanger, & (2) stainless steel reflector end caps with (8) clips.	<b>8 lbs.</b>
[ACTB] <b>RE-SS</b>	 304 grade stainless steel reflector elbow 90° bend to cover an E6-SS (not included). Field assembly required.	<b>9 lbs.</b>
[ACTB] <b>45E-SS</b>	 45° elbow assembly 4-1/2" radius, 304 grade stainless steel with high temperature black coating. 4" diameter. (1) tube clamp, (1) hanger, & (2) end caps with (8) clips. Consult IOM for minimum distance from burner.	<b>9 lbs.</b>
[ACTB] <b>SSE-SS</b>	 304 grade stainless steel side shield extension. Used to direct infrared rays downward away from sidewalls and combustibles with (2) 0° mounting brackets, (8) screws and (1) RCS. 62 in. long x 10.5 in. wide. <b>NOTE:</b> DET3 & DES3 models require an additional RCS (TP-82) not included.	<b>14 lbs.</b>

# REPLACEMENT PACKAGES & CONVERSIONS

BURNER (BRN) QUANTITIES <sup>2</sup>		
PART NO.	DESCRIPTION	QTY.
BRN-FT-BTU-GAS-MP	MP Series Burner & Baffle	
BRN-FT-BTU-GAS-HL3	HL3 Series Burner & Baffle	
BRN-FT-BTU-GAS-HL2-SB	HL2-SB Series Burner & Baffle	
BRN-FT-BTU-GAS-DX3L	DX3L Series Burner & Baffle	
BRN-FT-BTU-GAS-DX2-SB	DX2-SB Series Burner & Baffle	
BRN-FT-BTU-GAS-DET3	DET3 Series Burner & Baffle	
BRN-FT-BTU-GAS-DES3	DES3 Series Burner & Baffle	
BRN-FT-BTU-GAS-LD3	LD3 Series Burner & Baffle	
BRN-FT-BTU-GAS-LS3	LS3 Series Burner & Baffle	
BRN-FT-BTU-GAS-SV	SV Series Burner & Baffle	

\*LD3 & LS3 cannot replace LD & LS series (V2). Consult Factory.  
-SB comes with stainless steel control box.

MOUNTING KIT <u>ADD-ON</u> QUANTITIES <i>Can only be ordered when purchasing a BRN.</i>			
PART NO.	DESCRIPTION	STANDARD QTY.	SSKAO QTY.
BKAO-10	10 Ft. Mounting Kit		-
BKAO-20	15-20 Ft. Mounting Kit		
BKAO-30	25-30 Ft. Mounting Kit		
BKAO-40	40 Ft. Mounting Kit		
BKAO-50	50 Ft. Mounting Kit		
BKAO-60	60 Ft. Mounting Kit		
BKAO-70	70 Ft. Mounting Kit		
BKAO-80	80 Ft. Mounting Kit		
MPKAO <sup>4</sup>	MP Series Kit Add-On. Substitutes (1) FC-24 with (1) FC-36.		-

Must add-on the **SSKAO** to the mounting kit for stainless steel.

Mounting kit includes applicable hangers, clamps, and center supports. Also included is (1) FC-24, (2) reflector end caps, and (8) clips. **NOTE:** Kits for 150,000-200,000 BTU/h models receive one stainless steel tube clamp.

<sup>2</sup> Component burners do not include any mounting accessories but do include a flex connector.

<sup>3</sup> TPK Packages do not include any mounting accessories. Use caution to ensure that the proper combustion chamber is utilized. In most cases - aluminized (50,000 to 125,000 BTU/h) or titanium (150,000 to 200,000 BTU/h) steel.

<sup>4</sup> FC-36 replaces FC-24 when MPKAO is specified.

FACTORY CONVERSIONS	
# CONV	<p>Net conversion fee to change BTU or gas type on new (less than 18 months), stock (never sold or used) heaters. Includes all labels, baffle changes, and changes to burner. Does not include defective parts or new shipping cartons, if necessary. DRP does not pay any shipping fees. No switching between series of heater (ex. DES3 to HL3) Consult factory before placing order for conversions between low or high BTU models (50-125 = low, 150-200 = high). Do not return kit unless Detroit Radiant Products is to drop ship back to customer. <b>Net pricing applies.</b></p> <p><b>T1-CONV</b> - BTU or Gas change only _____  <b>T2-CONV</b> - High/Low Burner change _____</p>
	Enter Quantity to the Left

TUBE & REFLECTOR PACKAGES <sup>3</sup>		
PART NO.	DESCRIPTION	QTY.
TPK-A	Type-10-HRT	35 lbs.
TPK-B	Type-20-ALUM-HRT	70 lbs.
TPK-C	Type-20-HRT	70 lbs.
TPK-D	Type-30-ALUM-HRT	110 lbs.
TPK-E	Type-40-ALUM-HRT	145 lbs.
TPK-F	Type-40-TITAN-ALUM-HRT	145 lbs.
TPK-G	Type-10-ALUM	35 lbs.
TPK-H	Type-20-ALUM	70 lbs.
TPK-I	Type-30-ALUM	110 lbs.
TPK-J	Type-40-ALUM	145 lbs.
TPK-K	Type-40-TITAN-ALUM	145 lbs.
TPK-R	Type-10-SS	35 lbs.
TPK-S	Type-20-SS	98 lbs.
TPK-U	Type-30-SS	137 lbs.
TPK-V	Type-40-SS	181 lbs.

MOUNTING KIT <u>REPLACEMENT</u> QUANTITIES <i>To be purchased as a replacement only.</i>			
PART NO.	DESCRIPTION	STANDARD QTY.	SSKAO QTY.
DB-10Kit	10 Ft. -3" Mounting Kit	Call	-
DB-20Kit	15-20 Ft. -3" Mounting Kit	Call	-
DB-30Kit	30 Ft. -3" Mounting Kit	Call	-
10-Kit	10 Ft. -4" Mounting Kit		-
20-Kit	20 Ft. -4" Mounting Kit		
30-Kit	25-30 Ft. -4" Mounting Kit		
40-Kit	40 Ft. -4" Mounting Kit		
50-Kit	50 Ft. -4" Mounting Kit		
60-Kit	60 Ft. -4" Mounting Kit		
70-Kit	70 Ft. -4" Mounting Kit		
80-Kit	80 Ft. -4" Mounting Kit		
MPKAO <sup>4</sup>	MP Series Kit Add-On. Substitutes (1) FC-24 with (1) FC-36.		-

Must add-on the **SSKAO** to the mounting kit for stainless steel.

Mounting kit includes applicable hangers, clamps and center supports. Also included is (1) FC-24, (2) reflector end caps, and (8) clips. **NOTE:** Kits for 150,000-200,000 BTU/h models receive one stainless steel tube clamp.

© 2020 Detroit Radiant Products Co.  
21400 Hoover Road, Warren, MI 48089  
Phone: 586-756-0950 • Fax: 586-756-2626  
[www.detroitradiant.com](http://www.detroitradiant.com) • [sales@drp-co.com](mailto:sales@drp-co.com)