



LOW INTENSITY PACKING LIST

Heaters & Accessories

Effective 4-17-2023

To be used in conjunction with Controls & Venting Packing Lists.

All orders are subject to acceptance by Detroit Radiant Products Company, Warren, Michigan at prices in effect at date of shipment. All prices are F.O.B. Warren, Michigan. All state, federal, or municipal taxes in effect at the time of shipment or imposed at any future time on our products shall be the responsibility of the customer. We reserve the right to change specifications on our products without prior notice to the customer.



**COMMERCIAL &
INDUSTRIAL HEATERS**



**SPECIALTY
HEATERS**



**RESIDENTIAL
HEATERS**

The key symbols below and found within designate the following:

SYMBOL	DESCRIPTION
†	UPS packages are charged dimensional, not physical weight.
<u>Underlined Item</u>	New item from prior accessory guide or packing list.

Shipping Weight Notation: Shipping weight is shown for each item.

The per item weight will typically be less when packaging multiple items on one order.

Replacement parts can be found at www.reverberray.com/shop.

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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
REV, MP, HL3, DX3L, -SS, -SB, 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 ¹	
CWO	Control Extended Warranty. (Max. 4 year extension). _____ per year, per heater.
MPCWO	MP Series Control Extended Warranty. (Max. 4 year extension). _____ per year, per heater.
EWO	Exchanger Extended Warranty Option. (Max. 10 year total or 5 year extension) _____ per year, per tube.

¹ Prior approval from the factory is required when requesting extended warranties.

PRODUCT SELECTION

APPLICATION TYPE	REV	MP	HL3	DX3L	DET3	DES3	HL2-SS/SB	DX2-SS/SB	SV	CL3	CX3	LD3	LS3
Modulating Operation		•											
Two Stage Operation	•		•		•		•		*	•		•	
Single Stage Operation				•		•		•	•		•		•
Unique Specifiable Features	•	•					•	•		•	•		
Premium Brands	•	•	•	•									
Economy/Value Brands					•	•							
Residential Garages												•	•
Low Clearance Areas	•									•	•	•	•
Specialty Fuel Facilities (CNG/LNG)										•	•		
Harsh Environments			0	0			•	•					
Outdoor Patio	0	0	0	0									
Agricultural with Livestock	Consult Factory												

• Denotes that model can be installed in the application type.

0 Denotes models that need additional accessories/upgrades before being installed in the application type. See pages 5 & 6 for available upgrades.

* Denotes option available as an upgrade.

REV SERIES

TUBE HEATER QUANTITIES - V3

SERIES	20 FT.	30 FT.	40 FT. (A)	40 FT. (T)	50 FT. (A)	50 FT. (T)	60 FT.
REV							

AVAILABLE MODELS

MODEL FT-BTU-GAS	20-50 N or P	20-60 N or P	20-65 N or P	20-75 N or P	20-80 N or P	25-80 N or P	30-50 N or P	30-60 N or P	30-65 N or P	30-75 N or P	30-80 N or P	30-100 N or P	30-115 N or P	30-125 N or P	40-50 N or P	40-60 N or P	40-65 N or P	40-75 N or P	40-80 N or P	40-100 N or P	40-115 N or P	40-125 N or P	40-150 N or P	40-175 N or P	50-100 N or P	50-115 N or P	50-125 N or P	50-150 N or P	50-175 N or P	50-200 N or P	60-125 N or P	60-150 N or P	60-175 N or P	60-200 N or P	70-175 N or P	70-200 N or P	80-200 N or P
Combustion Tube	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	A	A	A	T	T	T	A	T	T	T	T	T	T	
REV			•	•					•	•		•					•	•		•		•	•			•	•	•	•		•	•	•				

(A) Aluminized or (T) Titanium

AVAILABLE ADD-ON/UPGRADE OPTIONS*												
MODEL SERIES	SILSEAL	OD-KIT	IND-LT	24VAO	HLRB	HLRP	ERK	ERK-HE	ALUM-AO	FC-24PVC-AO "PVC Flex"	FC-36-AO "36 in. Flex"	GC-50 "1/2 in. Valve"
REV	0	0	S	-	-	0 ¹	0 ¹	0 ¹	S	0	0	0

* Refer to page 6 for information (GC-50 is on page 9).

OPTIONS KEY			
0	Option Available	S	Standard Feature
-	Options Not Available		
1	Needed when controlling multiple heaters on the same thermostat (either ERK or HLRP, but not both)		



WEIGHTS & BOXING INFORMATION

LENGTH	20 FT.	30 FT.	40 FT.	50 FT.	60 FT.
SHIP WT.	265 lbs.	310 lbs.	430 lbs.	525 lbs.	650 lbs.
BOXING	B, S	B, S, S	B, S, S	B, S, S, S	B, S, S, S

BOXING KEY	
B	Burner (47# - 37.5"L x 23"W x 12"H)
S	Small Tube (122"L x 17.5"W x 10"H)

MISCELLANEOUS HARDWARE ACCESSORIES

Also refer to "Other Accessories" on page 9.

PART NO.	DESCRIPTION	QTY.			
 HD-THCS	Five foot chain set with two (2) S-hooks (P/N: HD-SH) used for hanging heater. Bulldog coil chain with a working load limit of 330 lbs. each.	1 lb.			
 HD-SH	Heavy duty S-hook with a working load limit of 330 lbs.	0.5 lb.			
REQUIRED CHAIN OR CABLE SETS PER HEATER (FOR 10' CENTERS)					
MODEL LENGTH	20'	30'	40'	50'	60'
QTY.	5	6	7	8	9

BURNER (BRN) PRICING ¹		
PART NO.	DESCRIPTION	QTY.
BRN-FT-BTU-GAS-REV	REV Series Burner	Call

¹ Component burners do not include any mounting accessories but **do** include a flex connector.

LOW INTENSITY TUBE HEATER QUANTITIES



COMMERCIAL & INDUSTRIAL HEATERS - V3

SERIES	20 FT.	25 FT.	30 FT.	40 FT. (A)	40 FT. (T)	50 FT. (A)	50 FT. (T)	60 FT.	70 FT.	80 FT.
MP	-									-
HL3		-								-
DX3L		-								
DET3^		-								-
DES3		-								

^ Standard model requires a 24 V external transformer.
NOTE: See Available Models chart on page 5 for combustion chamber tube construction. (A) Aluminized or (T) Titanium.
Due to production & supply challenges, DRP reserves the right to upgrade hot-rolled steel tubes to painted aluminized at no additional charge without notice.

FULL STAINLESS STEEL COMMERCIAL & INDUSTRIAL HEATERS - V2

SERIES	20 FT.	30 FT.	40 FT.	50 FT.	60 FT.
HL2-SS					
DX2-SS					

STAINLESS STEEL CONTROL BOX UPGRADE COMMERCIAL & INDUSTRIAL HEATERS - V2

SERIES	20 FT.	30 FT.	40 FT. (A)	40 FT. (T)	50 FT. (A)	50 FT. (T)	60 FT.	70 FT.	80 FT.
HL2-SB									-
DX2-SB									

*16" tube is also upgraded to stainless steel. Refer to page 7 for additional -SS upgrades.
NOTE: See Available Models chart on page 5 for combustion chamber tube construction. (A) Aluminized or (T) Titanium.

LOW BTU/LOW CLEARANCE HEATERS - V3

SERIES	30 FT.	40 FT.	50 FT.
CL3			
CX3			

LOW BTU/SELECT RESIDENTIAL HEATERS - V3

SERIES	10 FT.	15 FT.	20 FT.	30 FT.
LD3	-			
LS3				

UNITARY VACUUM HEATERS - V2 (REFER TO HLV PACKING LIST FOR ENGINEERED VACUUM HEATERS)

SERIES	20 FT.	30 FT.	40 FT. (A)	40 FT. (T)	50 FT. (A)	50 FT. (T)	60 FT.	70 FT.	80 FT.
SV									

NOTE: See Available Models chart on page 5 for combustion chamber tube construction. (A) Aluminized or (T) Titanium.

WEIGHTS & BOXING INFORMATION

LENGTH	10 FT.	15 FT.	20 FT.	25 FT.	30 FT.	40 FT.	50 FT.	60 FT.	70 FT.	80 FT.
SHIP WT.	85#	100#	120#	145#	160#	190#	235#	265#	300#	330#
CL3/CX3	-	-	-	-	185#	215#	260#	-	-	-
BOXING	B, S	B, S	B, S	B, L	B, L	B, L	B, L, S	B, L, S	B, L, L	B, L, L
SS WT.*	-	-	145#	180#	195#	235#	290#	330#	-	-

*For when tube and reflectors are upgraded to stainless steel.

BOXING KEY	
B ^{v2}	V2 Burner (45# - 36"L x 24"W x 9"H)
L	Large Tube (122"L x 17.5"W x 15"H)
B ^{v3}	V3 Burner (47# - 37.5"L x 23"W x 12"H)
S	Small Tube (122"L x 17.5"W x 10"H)

SV series heaters include an additional box for the exhauster assembly.

AVAILABLE MODELS																																							
MODEL FT-BTU-GAS	20-50 N or P	20-60 N or P	20-65 N or P	20-75 N or P	20-80 N or P	25-80 N or P	30-50 N or P	30-60 N or P	30-65 N or P	30-75 N or P	30-80 N or P	30-100 N or P	30-115 N or P	30-125 N or P	40-50 N or P	40-60 N or P	40-65 N or P	40-75 N or P	40-80 N or P	40-100 N or P	40-115 N or P	40-125 N or P	40-150 N or P	40-175 N or P	50-100 N or P	50-115 N or P	50-125 N or P	50-150 N or P	50-175 N or P	50-200 N or P	60-125 N or P	60-150 N or P	60-175 N or P	60-200 N or P	70-175 N or P	70-200 N or P	80-200 N or P		
Combustion Tube	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	A	A	A	T	T	T	A	T	T	T	T	T	T		
MP						•					•		•						•		•		•			•			•			•			•				
HL3			•	•					•	•		•		•		•	•		•		•		•	•			•	•	•	•		•	•	•	•	•	•		
DX3L	•	•		•			•	•		•		•		•	•	•		•		•		•	•	•	•			•	•	•	•		•	•	•	•	•	•	
DET3			•	•					•	•		•		•		•	•		•		•		•	•	•			•	•	•	•		•	•	•	•	•	•	
DES3	•	•		•			•	•		•		•		•	•	•		•		•		•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	
HL2(-SS)(-SB)			^	•	•				^	•	•	•		^			^	•	•	•		•	•	^			•	•	•	•	^		•	•	•	•	^	^	
DX2(-SS)(-SB)	^	^		•	•		^	^		•	•	•		^	^	^		•	•	•		•	•	^	•			•	•	•	^	•	•	•	•	^	^	^	
SV	•	•		*			•	•		*		*		*	•	•		*		*		*	*	*	•		*	*	*	*	•	*	*	*	*	*	*	•	

^ Denotes only available for (-SB) series.

(A) Aluminized or (T) Titanium

* Denotes SV Series models that can be used with SV-TSAO two stage add-on.

AVAILABLE MODELS																							
MODEL FT-BTU-GAS	10-25 N or P	10-30 N or P	15-25 N or P	15-30 N or P	15-40 N or P	15-50 N or P	20-40 N or P	20-50 N or P	30-50 N or P	30-60 N or P	30-65 N or P	30-75 N or P	30-80 N or P	30-85 N or P	40-50 N or P	40-60 N or P	40-65 N or P	40-75 N or P	40-80 N or P	40-85 N or P	50-80 N or P	50-85 N or P	
Combustion Tube	T	T	T	T	T	T	T	T	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
CL3											•	•	•	•			•	•	•	•	•	•	
CX3									•	•		•	•	•	•	•		•	•	•	•	•	
LD3*					•	•	•	•	• *														
LS3*	•	•	•	•	•	•	•	•	• *														

* Denotes CSA Residentially Certified LD3 and LS3 Series heaters. These series utilize a titanium (T) combustion chamber tube.

MODEL SERIES	AVAILABLE ADD-ON/UPGRADE OPTIONS														
	SILSEAL	OD-KIT	IND-LT	24VAO	HLRB	HLRP	ERK	ERK-HE	LV3-5EA-SUB 30' Models	2.5' / 5EA-SUB	ALUM-AO	FC-24PVC-AO "pVC Flex"	FC-36-AO "36 in. Flex"	GC-50* "1/2 in. Valve"	SV-TSAO
MP	O	O	S	-	-	-	-	-	-	O	S	-	S	-	-
HL3	O	O	S	-	-	O ¹	O ¹	O ¹	-	O	S	O	O	O	-
DX3L	O	O	S	-	-	-	O ¹	O ¹	-	O	S	O	O	O	-
DET3	O	O	S	-	-	S	-	-	-	O	O	O	O	O	-
DES3	O	O	O	O ²	-	-	-	-	-	O	O	O	O	O	-
HL2-SS	S	S	S	-	O ¹	-	-	O ¹	-	O	-	S	-	S	-
HL2-SB	S	S	S	-	O ¹	-	-	O ¹	-	O	S	S	-	S	-
DX2-SS	S	S	S	O	-	-	-	-	-	O	-	S	-	S	-
DX2-SB	S	S	S	O	-	-	-	-	-	O	S	S	-	S	-
CL3	O	O	S	-	-	O ¹	O ¹	O ¹	-	-	S	O	O	O	-
CX3	O	O	S	-	-	-	O ¹	O ¹	-	-	S	O	O	O	-
LD3	O	O	S	-	-	-	O ¹	O ¹	O	-	S	O	-	S	-
LS3	O	O	S	-	-	-	O ¹	O ¹	O	-	S	O	-	S	-
SV	O	-	S	-	-	-	-	-	-	O	S	O	O	S	O

* GC-50 can be found on page 9. MP series uses GC-75.

OPTIONS KEY	
0	Option Available
-	Option Not Available
1	Needed when controlling multiple heaters on the same thermostat (either ERK or HLRP/B, but not both)
S	Standard Feature
2	DES3 series will include IND-LT



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.
SILSEAL	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.	
OD-KIT	Outdoor approval kit for REV, MP, HL3, DX3L, CL3, CX3, DES3, DET3, 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.	
IND-LT	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. NOTE: Standard feature included on all other series. Included on DES3 with 24VAO.	
24VAO	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 required. DES3 will include IND-LT.	

Hi-Low Relay Panels / Boards

For **REV, 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 **REV, HL3, HL2, and CL3 series** have an internal relay option to have relays installed at the time of production. Specify the **HLRP** for **REV, 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.

HLRP	Optional internal dual relays for REV, HL3, & CL3 Series heaters. Use part number TP-1325 for replacement parts ordering.	
HLRB	Optional internal dual relays for HL2 Series heaters. Use part number TP-825 for replacement parts ordering.	
 ERK	The External Relay Kit accessory can be used on REV, 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.
 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.

PART NO.	DESCRIPTION	QTY.
FC-24PVC-AO	Upgrades standard stainless steel FC-24 (24") flexible gas connector to a 24" PVC coated stainless steel flexible gas connector.	
FC-36-AO	Upgrades stainless steel FC-24 (24") flex connector to a stainless steel FC-36 (36") flexible gas connector.	
For LD3/LS3 30' models only	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.	
LV3-5EA-SUB	Intended for MP series 25' models	
2.5EA-SUB	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	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.	
5EA-SUB	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.	
C30-5EA-SUB	SV two stage add-on. Changes heater to operate as a two stage unit. Field supply 24 V to control heater operation. One SV-TSAO per heater required. Post purge will be added to the vacuum pump. NOTE: This add-on will change the field wiring to be similar to the HLV Series.	
SV-TSAO	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.	
For DET3/DES3 series models only		
ALUM-AO		

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*	5	6

STAINLESS STEEL ADD-ON OPTIONS & UPGRADES

N/A FOR REV SERIES.

N/A FOR REV SERIES. NOTE: Items on this page must be ordered at time of production. Be sure to tag appropriate heaters for upgrades.

PART NO.	DESCRIPTION	QTY.
SSTAO*	Stainless steel tube add-on upgrades existing tube exchangers from titanium/ aluminized to 304 grade stainless steel tubes. NOTE: Combustion chamber will be 409 grade stainless. One needed per 10 ft. of tube.	2 lbs. per add-on
SSRAO	Specifying the stainless steel reflector add-on to your order upgrades the existing aluminum reflectors to highly polished, 304 grade stainless steel reflectors. One SSRAO is needed per 10 ft. of reflector.	7 lbs. per add-on
SSTRAO*	Stainless steel tube & reflector add-on upgrades existing 10 ft. tube and reflector to stainless steel. One needed per 10 ft. of tube.	9 lbs. per add-on
SSRAO-5	Upgrade a 5 ft. aluminized reflector to 304 grade stainless steel.	
SSTRAO-5	Upgrade a 5 ft. aluminized tube & reflector to 304 grade stainless steel.	

REQUIRED STAINLESS STEEL ADD-ONS PER HEATER								
MODEL LENGTH	10'	20'	25-30'	40'	50'	60'	70'	80'
QUANTITY	-	2	3	4	5	6	7	8

PART NO.	DESCRIPTION	QTY.
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Upgrade standard 4 in. galvanized steel tube clamps to **304 grade** stainless steel. Prices shown below are per heater based on length.

Enter quantity below

SSC-##

NOTE: SSC-10 for use with TR60 or 10EA tube extension packages only.

-10	-20	-25	-30	-40	-50	-60	-70	-80

Upgrade standard galvanized steel 4 in. wire hanger and 4 in. RCS to stainless steel. Prices shown below are per heater based on length. **NOTE:** SSB-10 for use with TR60 or 10EA tube extension packages only.

Enter quantity below

SSB-##

-10	-20	-25	-30	-40	-50	-60	-70	-80

AVAILABLE STAINLESS STEEL ADD-ON/UPGRADE OPTIONS							
MODEL SERIES	SSTAO*	SSRAO	SSTRAO*	SSRAO-5	SSTRAO-5	SSC-##	SSB-##
MP	X	O	X	O	O	O	O
HL3	X	O	X	-	-	O	O
DX3L	X	O	X	-	-	O	O
DET3	-	O	-	-	-	O	O
DES3	-	O	-	-	-	O	O
HL2-SS	S	S	S	-	-	S	S
HL2-SB^	X	O	X	-	-	O	O
DX2-SS	S	S	S	-	-	S	S
DX2-SB^	X	O	X	-	-	O	O
CL3	-	O	-	-	-	O	-
CX3	-	O	-	-	-	O	-
LD3	-	O	-	-	-	-	-
LS3	-	O	-	-	-	-	-
SV	X	O	X	-	-	O	O

* SSTAO and SSTRAO add-on options upgrade 16" tube to stainless steel.

^ -SB heaters come with stainless steel control box and stainless steel 16" tube.

-SS heaters come with all stainless steel options.

OPTIONS KEY			
O	Option Available	S	Standard Feature
-	Option Not Available	X	Only available on 75,000-200,000 BTU/h models, with the exception of 30-125, 40-175, and 50-200 models

STANDARD EXTENSION ACCESSORIES









N/A FOR REV SERIES.










PART NO.	DESCRIPTION	QTY.
Box ID [AA]	Ten foot heater extension assembly includes ten foot, 4" diameter, 16 gauge, aluminized steel tube with high temperature black coating, ten foot reflector, 4" reflector center support, 4" tube clamp and one 4" hanger. This extension must be shipped via truck line.	
10EA		35 lbs.
Box ID [AB]	2) 10EAs in one small box.	
20EA		70 lbs.
Box ID [AC]	3) 10EAs in one large box.	
30EA		110 lbs.
Box ID [AD]	4) 10EAs in one large box.	
40EA		145 lbs.
Box ID [AM]	Five foot heater extension assembly. See 10 EA for contents and specs. Item can be shipped via UPS.	
TR60		20 lbs.


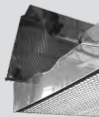


PART NO.	DESCRIPTION	QTY.
Box ID [AE]	Ten foot heater extension assembly includes ten foot, 4" diameter, 16 gauge, hot-rolled steel tube with blackened appearance, ten foot reflector, 4" tube clamp, and one 4" hanger. No RCS center support is included. This extension must be shipped via truck line.	
10HRE		35 lbs.
Box ID [AF]	2) 10HREs in one small box.	
20HRE		70 lbs.
Box ID [AG]	3) 10HREs in one large box.	
30HRE		110 lbs.
Box ID [AH]	4) 10HREs in one large box.	
40HRE		145 lbs.
Box ID [BD]	Five foot heater extension assembly. See 10 HRE for contents and specs. Item can be shipped via UPS.	
HRE-60		20 lbs.

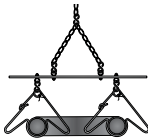
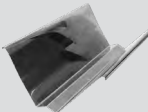

MISCELLANEOUS HARDWARE ACCESSORIES

SEE PG. 3 FOR REV SERIES.




PART NO.	DESCRIPTION	QTY.						
 THCS	Five foot chain set with two (2) "S" hooks used for hanging heater. Bulldog coil chain, trade size #1, wire gauge 12, and a working load limit of 155 lbs. each.	1 lb.						
 RVA-CS	12" Chain mounting set with 2 - "S" hooks, 1 - chain, and 1 - 3" open eye screw to secure to structure. 12" structure spacing.	1 lb.						
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
"U" or "L" Config.	N/A	6	8	8	10	10	12	12
*Straight refers to models in a straight configuration (10' centers).								
THCS for HLTV series: Three (3) per burner box; one (1) for each 5 ft. or 10ft. tube section.								
 E6	Elbow - 6" radius, 90° bend, 4" diameter, 16 gauge aluminized steel with black coating, one tube clamp, one hanger, and two reflector end caps with 8 clips. Consult IOPM for minimum distance from burner and dimensional data.							8 lbs.
 RE	Reflector Elbow - 90° bend, with polished, one side bright reflector elbow. Designed to fit atop one elbow (not included). Field assembly required.							5 lbs.
 REP	Reflector and elbow package - One RE and one E6. Consult IOPM for minimum distance to burner. No end caps or clips included.							10 lbs.
 45E	45° elbow assembly 4½" radius, 16 gauge aluminized steel with high temperature black coating. 4" diameter, one tube clamp, one hanger, 2 end caps with 8 clips. Consult IOPM for minimum distance from burner.							7 lbs.
 DB-E6	Elbow package - 90° bend, 3" diameter, 16 gauge aluminized steel elbow with high temperature black coating. Includes 1) 3" tube clamp, 1) 3" hanger, 2) end caps w/ clips.							7 lbs.
 DB-REP	Reflector and elbow package - One RE and one DB-E6. Consult IOPM for minimum distance to burner. No end caps or clips included.							9 lbs.





PART NO.	DESCRIPTION	QTY.						
 THGH10	Gripple® tube heater hanging cables. 10' length of looped cable with an easy-lock fastener per assembly. #2 cable with working load limit of 100 lbs. with a 5:1 load safety ratio.	1 lb.						
 THGH20	20' length of looped cable with an easy-lock fastener per assembly.	2 lbs.						
 THGH30	30' length of looped cable with an easy-lock fastener per assembly.	3 lbs.						
 BK	"Brass Knuckles." Reflector mounting bracket that allows for mounting the reflector on specified angles. Attaches to TP-19B wire hanger. Preset bends allow for a 15°, 30°, or 45° mounting angle. See chart below for quantity needed. BK attaches to standard hangers. Consult factory for "U" configurations.	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
 TF1B	180° bend "U" shaped fitting, used to make a "U" shaped configuration. 16 gauge aluminized steel, 4" dia. fitting, with high temperature black coating. Also included: (1) tube clamp, (1) wire hanger, (2) reflector end caps, and (8) clips. Consult IOPM for minimum distance from burner and dimensional data.							13 lbs.
 RU	Reflector "U" to cover a TF1B "U" fitting (not included). 180° bend "U" reflector for attachment to standard reflectors covering the end of a "U" configuration. Polished, one side bright aluminum. Reflectors cannot be rotated after installation of this accessory. Field assembly required.							5 lbs.
 RUP	Reflector and "U" bend package - One TF1B and one RU. Consult IOPM for minimum distance to burner. No end caps or clips included.							14 lbs.
 DB-TF1B	180° bend "U" shaped fitting, used to make the heater into a "U" shaped configuration. 16 gauge aluminized steel, 3" dia. fitting, with high temperature black coating. Also included: (1) tube clamp, (1) wire hanger, (2) reflector end caps, and clips.							11 lbs.
 DB-RUP	Reflector and "U" bend package - (1) DB-TF1B and (1) RU. Consult IOPM for minimum distance to burner. No end caps or clips included.							11 lbs.


PART NO.	DESCRIPTION	QTY.								
	62" long x 10½" wide. Side shield extension polished one side bright, used to direct infrared rays downward - away from sidewalls and combustibles with (2) 0° mounting brackets, (8) screws, & (1) RCS. NOTE: DET3 and DES3 models require the purchase of (1) extra 4" RCS (TP-82). NOTE: (2) SSE required to span each 10' reflector section. Maintain published clearances when using this accessory.	8 lbs.								
SSE										
	Decorative Grill designed to encase radiant tubes. Attaches to reflector—use side clearance data. Mounts at 0-45°. Finished in a highly polished aluminum casing and egg crate bottom surface. 60" x 18" x 4½". Field assembly required. Use DCSP chart for quantity required. Not for 'U' tubes.	8 lbs.								
BRDG										
	Drop ceiling side panels. Polished one side bright. Used to direct infrared rays away from ceiling tiles. 62" in length, mounts with (2) zip screws to the heaters reflector. Sold in pairs.									
DCSP	Used for V2 heaters.									
DCSP-V3	Used for V3 heaters.	6 lbs.								
REQUIRED DCSP-V3 PER HEATER (PAIRS)										
MODEL LENGTH	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'
STRAIGHT	2	3	4	5	6	8	10	12	14	16
	Aluminum Egg Crate—24" x 48". Designed to fit into a standard 2' x 4' ceiling tile opening. Crate has ½" x ½" openings and is ½" thick. See chart below for quantity needed. Used in conjunction with DCSP-V3 (see above).									
EC	8 lbs.									
REQUIRED ALUMINUM EGG CRATES PER HEATER										
MODEL LENGTH	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'
STRAIGHT	3	5	6	9	9	12	15	18	21	24

PART NO.	DESCRIPTION	QTY.							
	Single mount bracket for use on U-shaped configured heaters. Bracket allows installation from one suspension point, as opposed to two. Bracket also assures uniform spacing between opposing tubes. See chart below for quantity needed. Included: (1) THCS chain set and (5) S-Hooks. NOTE: Two (2) THCS required to mount burner control box.	2 lbs.							
SMB									
REQUIRED SMB PER HEATER									
MODEL LENGTH	10'	20'	25'	30'	40'	50'	60'	70'	80'
"U" Config.	-	2	3*	3*	3	4*	4	5*	5
* Model requires 5EA-SUB accessory package when installing in a U-shaped configuration.									
	Protective Heat Shield. For use on 0° mounted reflectors only. 30" x 12" 304 grade stainless steel. For attachment below reflector in heat sensitive areas. Includes (2) stainless steel end caps, (8) clips, (4) 5" bolts, & (4) wing nuts. Max. 1 per heater.								6 lbs.
PHS									
	Protective guard. Designed to attach to standard reflector to prevent debris or objects from becoming lodged between radiant tube and reflector. Galvanized wire with slip-on style mounting channels. 2 restraining cables and 1 reflector center support included. 5' long x 13¼" wide with 1¼" slots. Must be used when mounting heaters below 8 ft.								
PG	For 4" tube heater models.								
DB-PG	Used on LS3 and LD3 series.								5 lbs.
REQUIRED GUARDS PER HEATER									
MODEL LENGTH	10'	15'	20'	25'-30'	40'	50'	60'	70'	80'
STRAIGHT*	2	3	4	6	8	10	12	14	16
"U" or "L" Config.†	-	3	4	6	8	10	12	14	16
*Straight refers to models in a straight configuration. †When in a U or L configuration, one additional piece may be required and may need to be cut to size in the field. PG for HLTV series: Two (2) for each 10 ft. tube section.									

OTHER ACCESSORIES

PART NO.	DESCRIPTION	QTY.
	Maxitrol high pressure regulator, 2 PSI maximum inlet pressure on natural and propane gas. 12" W.C.P. outlet pressure setting. ½" x ½" NPT, 150,000 BTU/h flow capacity. CSA Design Certified and meets NFPA-54 requirements for vent limiting devices.	2 lbs.
325-3		
	Maxitrol regulator (see 325-3 above) with 300,000 BTU/h flow capacity. ¾" x ¾" NPT. CSA Design Certified and meets NFPA-54 requirements for vent limiting devices.	2 lbs.
325-5		
	Maxitrol regulator ½" x ½" NPT with vent limiting device. 2-5 PSI maximum inlet pressure on natural gas only . Meets ANSI Z21.80 standard for line regulators.	3 lbs.
325-3 OPD		


PART NO.	DESCRIPTION	QTY.
	CSA Design Certified ball valve, 2 PSI maximum pressure, ½" x ½" FPT, with ⅛" NPT side pressure tap. CSA Certified to: • ANSI Z21.15 (0.5 PSIG) • ASME B16.44 (5 PSIG) • CGA CR91 (5 PSIG)	1 lb.
[ACCM] GC-50		
	CSA Design Certified ball valve, 2 PSI maximum pressure, ¾" x ¾" FPT, with ⅛" NPT side pressure tap.	1 lb.
[ACCM] GC-75		
	Clearance Safety Limit Sign. 24 gauge aluminum 10" x 7". Sign is designed to be hung or adhered at clearance to combustibles limit. Repeats clearance warnings.	1 lb.
[ACCM] PLQ		
	Large spray can (12 ounces) of black touch-up, high temperature paint.	1 lb.
[ACTB] TSP-L		


PART NO.	DESCRIPTION	QTY.
 10EA-SS	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.	35 lbs.


	(2) 10EA-SSs in one small box.	20EA-SS	70 lbs.
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	(3) 10EA-SSs in one large box.	30EA-SS	110 lbs.
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	(4) 10EA-SSs in one large box.	40EA-SS	145 lbs.
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 TR60-SS	5' heater extension assembly. See 10EA-SS for contents and specs. Item can be shipped via UPS.	20 lbs.
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 THCS-SS	30 in. stainless steel chain set with (2) "S" hooks. Suitable for hanging heater in tight applications such as car washes.	1 lb.
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 THGH15-SS	Stainless steel Gripper® 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.	1 lb.
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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
"U" or "L" Config.	-	6	8	8	10	10	12	12


 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.
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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.
 TF1B-SS	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.	13 lbs.

 RU-SS	304 grade stainless steel reflector "U" to cover a TF1B-SS "U" fitting (not included). Field assembly required.	12 lbs.
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 E6-SS	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.	8 lbs.
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 RE-SS	304 grade stainless steel reflector elbow 90° bend to cover an E6-SS (not included). Field assembly required.	9 lbs.
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 45E-SS	45° elbow assembly 4½" radius, 304 grade stainless steel with high temperature black coating. 4" diameter. (1) tube clamp, (1) hanger, & (2) end caps with (8) clips. Consult IOPM for minimum distance from burner.	9 lbs.
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 SSE-SS	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 10½ in. wide. NOTE: DET3 & DES3 models require an additional RCS (TP-82) not included.	14 lbs.
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REPLACEMENT PACKAGES & CONVERSIONS

N/A FOR REV SERIES.

BURNER (BRN) PRICING ¹		
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	Call
BRN-FT-BTU-GAS-LS3	LS3 Series Burner	Call
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.

¹ Component burners do not include any mounting accessories but **do** include a flex connector.

MOUNTING KIT <u>ADD-ON</u> PRICING <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		

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

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

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.</p> <p>T1-CONV - BTU or Gas change only _____ T2-CONV - High/Low Burner change _____</p>	<p>See T1 or T2-CONV quantities.</p> <p>+ carton fee when necessary</p>

TUBE & REFLECTOR PACKAGES ²		
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.

² 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.

Note: Due to production & supply challenges, DRP reserves the right to upgrade hot-rolled steel tubes to painted aluminized at no additional charge without notice.

MOUNTING KIT REPLACEMENT PRICING <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 ³	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.

³ FC-36 replaces FC-24 when MPKAO is specified.

* When ordering replacement mounting kits, you must indicate the model number of the heater it is for.

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