

Tube Heater Price List

Heaters & Accessories

Effective 09-01-23

mm-dd-yy

All orders are subject to acceptance by Brant Radiant Heaters Limited, Paris, Ontario at prices in effect at date of shipment. All prices are F.O.B. Paris, Ontario. All Province, 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

Gas-Fired, Low Intensity, Infrared Tube Heaters

15% restocking charge on returned items,
within 30 days from day of sale.

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Note: Add-ons must be ordered as a separate line item and tagged to the appropriate heater.

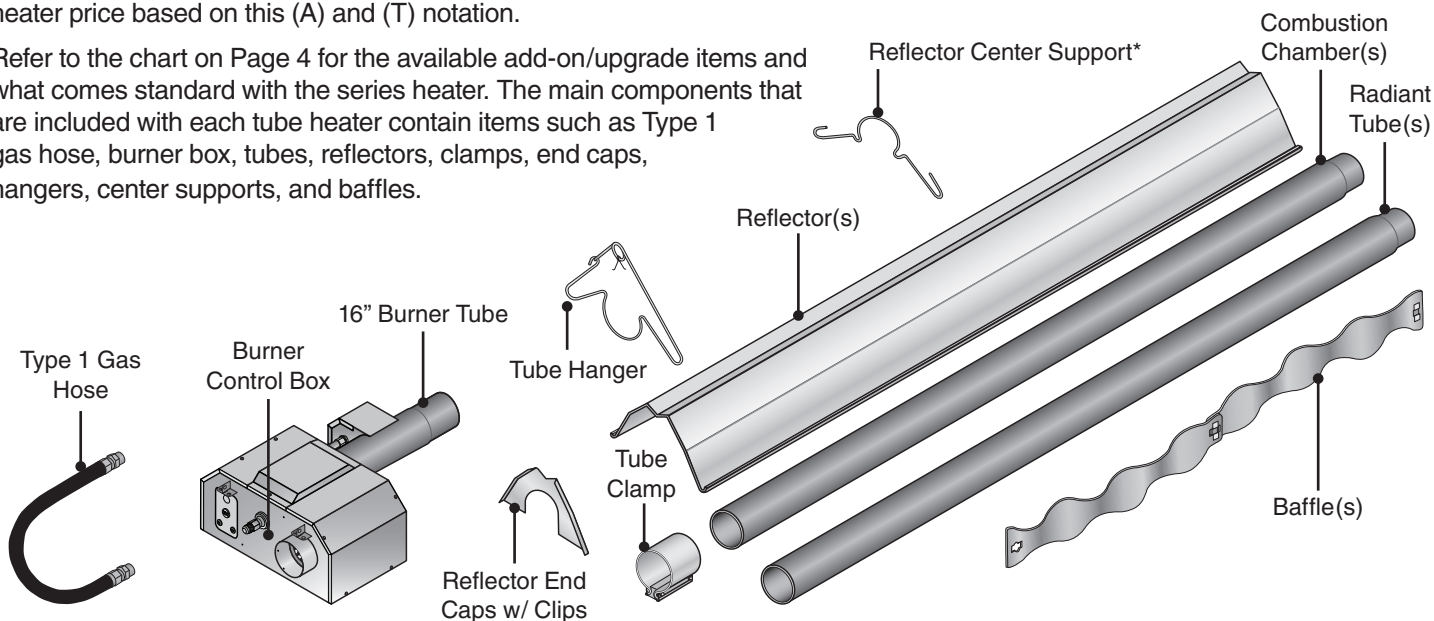
BULK PACK ORDERS Please TAG: Job Name on purchase order to help us be made aware that an order can be bulk packed to destination. A 10' skid, is available upon request at a charge.

HELPFUL STEPS WHEN PRICING LOW INTENSITY TUBE HEATERS

Step 1: Heater Selection (Pages 3-4)

Refer to the chart on Page 3 for available model heaters based on series, tube length, BTU and gas type. Gas type **MUST** be indicated on all orders. The Available Models chart denotes each heater model column with a letter (A) or (T) which indicates the combustion chamber tube material for that model. (A) indicates an aluminized combustion tube and (T) indicates a titanium stabilized combustion tube. NOTE: This does not apply for stainless steel model heaters. Be sure to use the correct tube heater price based on this (A) and (T) notation.

Refer to the chart on Page 4 for the available add-on/upgrade items and what comes standard with the series heater. The main components that are included with each tube heater contain items such as Type 1 gas hose, burner box, tubes, reflectors, clamps, end caps, hangers, center supports, and baffles.



Step 2: Accessory Selection (Pages 6-7)

Chain sets (P/N: THCS) or gripple cables (P/N: THGH10) are typically necessary for hanging each heater (refer to page 6 for required quantities). Additional accessories such as 90° elbows, “U” fittings, protective guards, side shields and decorative grills may be used. There are also options to upgrade certain features to stainless steel. Refer to the descriptions of each accessory for further details.

Application Type	MP	HL3	DX3L	DX2	HL2	DET3	DES3	HL2-SB	DX2-SB	CL3	CX3	LD2	LS2	HL2-DS
Modulating Operation	•													
Two-Stage Operation		•			•	•		•		•		•		•
Single-Stage Operation			•	•			•		•		•		•	
Unique Specifiable Features	•							•	•					•
Premium Brands	•	•	•	•	•									
Economy/Value Brands						•	•							
Residential												•	•	
Low Clearance Areas										•	•	•	•	
Specialty Fuel Facilities (CNG)										•	•			
Harsh Environments				o	o			•	•					
Outdoor Patio	o	o	o	o	o									•
Aesthetically Pleasing														•

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

o Denotes models need additional accessories before being installed in the application type. See page 4 accessories available.

LOW INTENSITY TUBE HEATERS

Commercial & Industrial Heaters

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	N/A									N/A
REV		N/A							N/A	N/A
HL2 / HL3		N/A								N/A
DX2 / DX3L		N/A								
ST2 / DET3		N/A							N/A	N/A
SE2 / DES3		N/A								

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

[illegible]

Full Stainless Steel Commercial & Industrial Heaters

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

NOTE: See Available Models in chart for combustion chamber tube construction. (3) 304 Stainless Steel or (4) 409 Stainless Steel.

[illegible]

Low BTU/Select Residential Heaters

SERIES	10 FT.	15 FT.	20 FT.	30 FT.
LD2				
LS2				

* Denotes CSA Residentially Certified LD2 and LS2 Series heaters.

NOTE: See Available Models in chart for combustion chamber tube construction. (T) Titanium.

[illegible]

Low BTU/Low Clearance Heaters

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

NOTE: See Available Models in chart for combustion chamber tube construction.

AVAILABLE MODELS															
MODEL	FT-BTU-GAS	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
Comb. Tube	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL3				•							•	•	•		
CX3	•	•	•		•	•	•	•	•	•		•	•	•	•

Shipping/Boxing

All models are shipped with 1) 30 in. Type 1 Rubber Hose **RH-1/2 or RH-3/4** and reflector center supports **TP-82** (BR-4IH) for each 10 ft. section. All hangers **TP-19B** (BR-4HGR) are included for 10 ft. center mounts clamps are located directly on pipes **TP-21B** (TP-21). Also a pair of End Cap Reflectors with (8) clips **TP-105** (BR-ECR) and a user manual.

AVAILABLE OPTIONS								
MODEL	SILSEAL	OD-KIT	24VAO	HLRB / HLRP	5EA-SUB	ALUM-AO	Type 1 Hose	GC-50 "Valve"
HL2	O	O	S	O	O	S	S	O
DX2	O	O	O	N	O	S	S	O
HL3	O	N	S	O	O	S	S	O
DX3L	O	N	S	N	O	S	S	O
ST2	O	O	S	O	O	O	S	O
SE2	O	O	O	N	O	O	S	O
DET3	O	N	S	S	O	O	S	O
DES3	O	N	O	N	O	O	S	O
LD2	O	O	S	O	O	S	S	O
LS2	O	O	O	N	O	S	S	O
CL3	O	O	S	O	O	S	S	O
CX3	O	O	O	N	O	S	S	O
HL2-SS	S	O	S	O	O	N	S	O
DX2-SS	S	O	O	N	O	N	S	O
MP	O	N	N	N	O	S	S	O

OPTIONS KEY					
O	Option Available.	N	Option Not Available.	S	Standard Feature
X	Available in BTU Range 75,000-150,000 Only.				

ADD-ON / UPGRADE ITEMS



PART NO.	DESCRIPTION	Quantity						
SILSEAL	Control box is silicone sealed, and electrical attachments are water-tight connections (i.e T-stat wire, power connection). This seal is to protect the internal components against site contaminants, such as Carwash applications. For version 2 control boxes only. Standard on all stainless steel heaters.							
OD-KIT	Outdoor approval kit for HL2, DX2, ST2, SE2, LS2, LD2, CL and CX Series . For use when applying heaters outdoor. Includes: SILSEAL, 90° air inlet cap. (WIV-4)							
ALUM-AO	Upgrade hot rolled steel radiant tubes to black coated 16ga. aluminized steel for maximum efficiency and longevity. Highly recommended in any contaminated or moisture laden environment. DET3/ST2 and DES3/SE2 Series models only. *150,000-200,000 BTU/h models require one less ALUM-AO.							
Required ALUM-AO per Heater*								
MODEL	10'	20'	30'	40'	50'	60'	70'	80'
STRAIGHT	N/A	1	2	3*	4*	5*	6*	7*
(For 3" Models) DB-5EA-SUB	This option substitutes one 10' tube & reflector for two 5' sections. One clamp and one hanger packed with pipes is added to existing accessories supplied. This is ideal for making "U" heaters from 30', 50' & 70' models. Maximum one per unit, add-on option only.							
(For 4" Models) 5EA-SUB								
(Economy Series) CR-5EA-SUB								

****IMPORTANT:** Specify add-on item at time of order. **Be sure to tag appropriate heater for add-on.**

PART NO.	DESCRIPTION	Quantity
24-VAO	24V controls for DX/DES3/SE2/LS2 series heaters. Internal relay and transformer for ease of operation to a stand-alone unit.	
24-VAOX	Internal 24V relay and connection installed at assembly for DX/DES3/SE2/LS2/CX series for multiple units controlled on one t-stat. External transformer required, see wiring diagram.	

Hi-Low Relay Panels / Boards

Relay panels or boards must be used anytime two or more HL2 or HL3, heaters are operating on the same thermostat (or common vented). Relay boards (HLRB/HLRP) are (at the time of production) internally mounted into the burner box. This must be specified at the time of order. One board is needed per heater. An external transformer is needed to power the control. Relay Boards (HLRB/HLRP) are preferred over panels. **Specify the HLRP for HL3 models only.**

HLRP	Optional internal dual relays for HL3 & CL3 Series heaters. (TP-1325) for replacement parts ordering.	
HLRB	Optional internal dual relays for HL2 Series heaters. (TP-825) for replacement parts ordering.	
 ERK	The External Relay Kit accessory can be used on HL3, HL2, CL3, DX3L, CX3, LS2 & LD2 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 (eg. 4000-01V, see page 10) is needed to power the control.	
 ERK-HE	Similar to ERK but utilizes a rugged NEMA 6P rated enclosure for use in wet and corrosive environments. An external transformer (eg. 4000-01V, see page 10) is needed to power the control.	


****IMPORTANT:** Specify add-on item at time of order. **Be sure to tag appropriate heater for add-on.**


AVAILABLE STAINLESS STEEL ADD-ON /UPGRADE OPTIONS										
MODEL	SSCBAO	SSTAO	SSRAO	SSTRAO	SSTAO-5	SSRAO-5	SSTAO-16	SSTRAO-5	SSC-##	SSB-##
HL2	O	X	O	X	X	O	O	X	O	O
DX2	O	X	O	X	X	O	O	X	O	O
HL3	N	X	O	X	X	O	O	X	O	O
DX3L	N	X	O	X	X	O	O	X	O	O
ST2	O	X	O	X	X	O	O	X	O	O
SE2	O	X	O	X	X	O	O	X	O	O
DET3	N	X	O	X	X	O	O	X	O	O
DES3	N	X	O	X	X	O	O	X	O	O
LD2	O	N	O	N	N	O	N	N	O	O
LS2	O	N	O	N	N	O	N	N	O	O
CL3	N	N	O	N	N	O	N	N	N	N
CX3	N	N	O	N	N	O	N	N	N	N
HL2-SS	S	S	S	S	O	S	S	O	S	S
DX2-SS	S	S	S	S	O	S	S	O	S	S
MP	N	X	O	X	X	O	O	X	O	O

OPTIONS KEY							
O	Option Available.	N	Option Not Available.	S	Standard Feature	X	Available in BTU Range 75,000-150,000 Only.





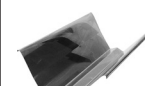
STAINLESS STEEL ADD-ON OPTIONS & UPGRADES																								
PART NO.		DESCRIPTION			Quantity		PART NO.		DESCRIPTION			Quantity												
SSTAO		Stainless steel tube add-on upgrades existing radiant exchangers from titanium/ aluminized to 16 ga., 304 grade stainless steel tubes. HL2, DX2, HL3, DX3L, AG1 & AG2 only. One needed per 10 ft. of tube. Sold as an add-on to an order.					SSCBAO		Upgrade control box housing to 304 grade stainless steel. Control box is silicone sealed, PC-36 added and electrical attachments are water-tight connections (i.e. T-Stat wire, power connection)															
SSTAO-5		Upgrade a 5 ft. aluminized tube to 304 grade stainless steel.							16 in. tube is upgraded to stainless without purchase of tube add-ons.															
SSRAO		Specifying the stainless steel reflector add-on to your order upgrades the existing .025", aluminum reflectors to highly polished, 304 grade stainless steel reflectors. Only sold as an add-on to an order. One SSRAO is needed per 10 ft. of reflector. For use on all models.					SSTAO-16		Stainless steel tube clamps. Upgrade standard 4 in. galvanized steel tube clamps to 304 grade stainless steel.															
SSRAO-5		Upgrade a 5 ft. aluminized reflector to 304 grade stainless steel.					SSC-##																	
							-10 N/A		-20		-30		-40		-50		-60		-70		-80			
SSTRAO		Stainless steel tube & reflector add-on upgrades existing tubes and reflectors to stainless steel. Sold as an add-on and <u>must</u> be specified at the time of order. HL2, DX2, HL3, & DX3L Series only.							Stainless steel mounting brackets. Upgrade standard galvanized steel 4 in. wire hanger (TP-19B) and 4 in. RCS (TP-82) to stainless steel. Prices shown below are per heater.															
SSTRAO-5		Upgrade a 5 ft. aluminized tube & reflector to 304 grade stainless steel.					SSB-##																	
							-10 N/A		-20		-30		-40		-50		-60		-70		-80			
SSREC		(2) Stainless steel Reflector end caps.					REQUIRED STAINLESS STEEL ADD-ONS PER HEATER																	
							MODEL		10 Ft.		20 Ft.		30 Ft.		40 Ft.		50 Ft.		60 Ft.		70 Ft.		80 Ft.	
							STRAIGHT		1		2		3		4		5		6		7		8	


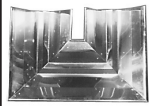


EXTENSION ACCESSORIES

PART NO.	DESCRIPTION	Quantity
 10EA	10 ft. heater extension assembly pack includes 10 ft., 4" diameter, 16 gauge, aluminized steel tube with high temperature black coating, 10 ft. reflector, 4" reflector center support, 4" tube clamp and 4" hanger.	
20EA	2) 10EAs in one box	
30EA	3) 10EAs in one box.	
30TEA	2) 10EAs and 1)TR-C in one box	
TR-60	5 ft. heater extension assembly. See 10EA for contents and specs. No reflector center support hanger.	
TR-C	Titanium Extension Assembly, 10 ft. titanium tube 10 ft. reflector, 4" reflector center support, 4" S.S tube clamp and 4" hanger.	

PART NO.	DESCRIPTION	Quantity
 10HRE	10 ft. heater extension assembly pack includes 10 ft., 4" diameter, 16 gauge, hot rolled steel tube with blackened appearance, 10 ft. reflector, 4" reflector center support, 4" tube clamp and one 4" hanger.	
20HRE	2) 10HREs in one box.	
30HRE	3) 10HREs in one box.	
HRE-60	5ft. heater extension assembly. See 10HRE for contents and specs. No reflector center support hanger.	
3" Kits	Consult Factory	

MISCELLANEOUS HARDWARE ACCESSORIES 4-INCH TUBE MODELS

PART NO.	DESCRIPTION	Quantity
 E6	Elbow - 6" radius, 90° bend, 4" diameter 16 gauge aluminized steel with black coating, one tube clamp, one hanger. Consult IOM for minimum distance from burner. Sq. dimension 15" x 15."	
 RE	Reflector Elbow - 90° bend, with polished, one side bright reflector elbow, 2 reflector brackets and screws. Designed to fit atop one elbow (not included). Sq. dimension 27" x 27." Field assembly required.	
 REP	Reflector and elbow package - One RE and one E6. Consult IOM for minimum distance to burner. No end caps or clips included.	
 45E	45° elbow assembly 4-1/2" radius, 16 gauge aluminized steel with high temperature black coating. 4" diameter, one tube clamp, one hanger. Consult IOM for minimum distance from burner.	
 PHS	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.	



PART NO.	DESCRIPTION	Quantity
 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, 1 center support hanger, 1 SMB. Adds 14" to overall unit length, center to center 16". Consult Manual for minimum distance from burner.	
 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, 4 reflector brackets and screws. Reflectors cannot be rotated after installation of this accessory.	
 RUP	Reflector and "U" bend package - One TF1B and one RU. Consult Manual for minimum distance to burner.	
 SMB	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) Single mount bracket (2) Eye bolt NOTE: Two (2) THCS required to mount burner control box.	



REQUIRED SINGLE MOUNT BRACKET (SMB) PER HEATER

Model Length	10'	20'	30'	40'	50'	60'	70'	80'
w/TF1B ("U")	N/A	2	3*	3	4*	4	5*	5






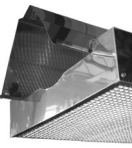
* Model requires 5EA-SUB accessory package when installing in a U-shaped configuration.

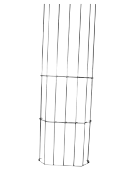

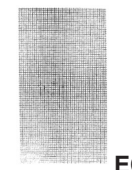

ACCESSORIES USED ONLY ON 3-INCH TUBE MODELS

PART NO.	DESCRIPTION	Quantity
 DB-TF1B	180° bend (U) shaped fitting, used to make heater into a U shaped configuration. 16 gauge aluminized steel, 3 in. O.D. with high temperature black coating. Also included: 1 tube clamp, 1 wire hanger, 1 spreader bar. For use on a 3 in.-20 ft. model.	
 DB-RUP	Reflector and 3" O.D. 180° U-bend package. One DB-TF1B and one RU reflector cover. Polished one side bright. Reflectors cannot be rotated after installation of this accessory. Field assembly required.	



PART NO.	DESCRIPTION	Quantity
 DB-E6	Elbow package - 90° bend, 3 in diameter, 16 gauge aluminized steel elbow with high temperature black coating. Includes 1) 3" tube clamp, 1) 3" hanger.	
 DB-REP	Reflector and elbow package - 90° bend, 3 in., 16 gauge aluminized steel elbow with high temperature black coating and polished, one side bright reflector elbow, one 3 in. tube clamp, and one hanger.	



MISCELLANEOUS HARDWARE ACCESSORIES

PART NO.	DESCRIPTION	Quantity
 THGH10	Gripple tube heater hanging cables. 10 foot length of looped cable with a locking fastener per assembly. Working load limit of 100 lbs. with 5:1 load safety ratio.	
 THCS	Five foot chain set with 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.	
 RVA-CS	8" Chain mounting set with 2 - "S" hook, 1 - chain, and 1 - 3" open eye screw to secure to structure. 12" structure spacing.	
REQUIRED CHAIN SETS PER HEATER (FOR 10' CENTERS)		
Model Length	10'	15-20'
STRAIGHT*	4	5
w/TF1B ("U")	N/A	6
 S-HOOK	*Straight refers to models in a straight configuration (10' centers). THCS for HLV series: Three (3) per burner box; one (1) for each 10ft. tube section.	
 BK	"Brass Knuckles." Reflector mounting bracket that allows for mounting the reflector on specified angles. Attaches to TP19B wire hanger. Preset bends allow for a 15, 30, or 45 degree mounting angle. See chart below for quantity needed. BK attaches to standard hangers	
REQUIRED BK FITTINGS PER HEATER		
Model Length	10'	20'
STRAIGHT*	2	3
w/TF1B ("U")	3	4
 BRDG	Decorative Grill designed to encase radiant tubes. Attaches to reflector - use side clearance data. Mounts at 0-45 degrees. Finished in a highly polished aluminum casing and eggcrate bottom surface. 60" x 18" x 4.5". Field assembly required. Not for 'U' tubes.	
REQUIRED BRDG PER HEATER		
Model Length	10'	20'
STRAIGHT	2	4


PART NO.	DESCRIPTION	Quantity
 PG	Protective guard. Designed to attach to standard reflector. 5' long x 13-1/4" wide with 1-1/4" slots. Galvanized wire with slip-on style mounting channels. Typically used to prevent debris or objects from becoming lodged between radiant tube and reflector. Should be used when mounting heaters below 8 ft.	
REQUIRED GUARDS PER HEATER		
Model Length	10'	20'
STRAIGHT*	2	4
w/TF1B ("U")	N/A	4
*Straight refers to models in a straight configuration.		
 DCSP	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. Shipped in sets of 2 pieces.	
REQUIRED DCSP PER HEATER (SETS)		
Model Length	10'	20'
STRAIGHT	2	4
 EC	Aluminum Egg Crate - 24" x 48". Designed to fit into a standard 2' x 4' ceiling tile opening. Crate has 1/2" x 1/2" openings and is 1/2" thick. Mounts 1-1/2" below the bottom of the tube. See chart below for quantity needed. Used in conjunction with DCSP (see above).	
REQUIRED ALUMINUM EGG CRATES PER HEATER		
Model Length	10'	20'
STRAIGHT	3	6
 SSE	62" long x 10-1/2" wide. Side shield extension polished one side bright, used to direct infrared rays downward - away from sidewalls and combustibles with two 0° mounting brackets, 8 screws and 2 brackets. NOTE: Two (2) SSE required to span each 10-ft reflector section. Maintain published clearances when using this accessory.	
REQUIRED SIDE SHIELD EXTENTION (SSE) PER HEATER		
Model Length	10'	15'
STRAIGHT	2	3


OTHER ACCESSORIES

PART NO.	DESCRIPTION	Quantity
 GC-50	CSA Design Certified ball valve, 2 PSI maximum pressure, 1/2" x 1/2" FPT, with 1/8" NPT side pressure tap.	
 BR-SIGN	Clearance Safety Limit Sign. 8.5" x 11". Sign is designed to be hung or adhere at clearance to combustibles limit. Repeats clearance warnings.	

PART NO.	DESCRIPTION	Quantity
 RH-1	30 in. (1/2" I.D.) rubber hose connector for low intensity heaters applied in Canada (25 - 150 MBH).	
 RH-3	30 in. (3/4" I.D.) rubber hose connector for low intensity heaters applied in Canada (175 - 200 MBH).	

AIR COMPONENTS

PART NO.	DESCRIPTION	Quantity
 WIV-4	Wall inlet cap, 4" O.D. with bird screen. For use with outside air option. Bird screen insures open air flow to unit. Used for 0-20' of 4" intake.(Common on all models)	













PART NO.	DESCRIPTION	Quantity
 AIRH	4" flexible air inlet rubber hose with DWV adapter affixed. Mates to 4" DWV pipe. Clear color for visibility. Includes 4" DWV adapter and worm clamp. 18" in length.	

STAINLESS STEEL ACCESSORIES





PART NO.	DESCRIPTION	Quantity
TP-26D	304 grade stainless steel radiant tube. 16 gauge, 4 in. x 10 ft., high temperature black coated.	
TP-26E	409 stainless steel combustion tube. 16 gauge, 4 in. x 10 ft., high temperature black coated. (Limited stock)	
TP-20D	120 in. 304 grade, polished stainless steel reflector.	
SST-60	60 in. 304 grade stainless steel tube. 16 gauge, stainless steel. High temperature black coated.	
5EA-SUB-SS	This option will substitute one 10' piece of radiant tubing & reflector with two 5' pieces. One clamp and one hanger is included (4" accessories pending model # with 5EA-SUB-SS). This is ideal for making "U" heaters from 30', 50' & 70' models. Maximum one 5EA-SUB-SS per heater. This is an add-on option only.	
TF1B-SS	4 in. 304 grade stainless steel 180° U-shaped fitting, with high temp black coating See TF1B on page 4. Includes (1) stainless steel clamp, (1) TP-19C hanger, and (2) stainless steel reflector end caps with clips, galvanized spreader bar.	
RUP-SS	Reflector and "U" bend package - One TF1B-SS and one RU-SS.	
THCS-SS	30 in. stainless steel chain set with two "S" hooks. See THCS on page 5 for quantity required per heater.	

PART NO.	DESCRIPTION	Quantity
RE-SS	304 grade stainless steel reflector elbow 90° bend to cover an elbow (E6) fitting (not included). Field assembly required. 27 in. x 27 in. square. (Specify 45° assembly)	
RU-SS	304 grade stainless steel reflector "U" to cover a TF1B "U" fitting (not included). Field assembly required. 27 in. x 27 in. square.	
SSR-60	60 in. 304 grade, polished stainless steel reflector.	
E6-SS	304 grade stainless steel elbow. 6" radius, 90° bend, 4" diameter, 16 gauge stainless steel with black coating. Includes (1) stainless steel tube clamp, and (1) stainless steel hanger.	
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. 62 in. long x 10.5 in. wide.	
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. See BK on page 5 for quantity required per heater.	
REP-SS	304 grade stainless reflector and elbow package - One RE-SS and one E6-SS. Consult IOM for minimum distance to burner. No end caps or clips included. (Specify 45° assembly)	




SINGLE STAGE & TWO-STAGE CONTROLS



PART NO.	DESCRIPTION	Quantity	PART NO.	DESCRIPTION	Quantity
 WR-S	White Rogers thermostat single-stage . 4,4° to 26,6°C range. White plastic cover, 24-277 VAC, 22.0 amps. May be used to switch either 24V or 120V. Consult amp rating unit for proper sizing.		 TH-P721	LuxPro single-stage or two-stage programmable 7 day, 5/2 day, or non-programmable thermostat. 45°-90°F range. 1.5 Amps at 24VAC (15 heaters with HLRP and 4000-01V). Features include 2 or 4 selectable periods per day, °C/°F display, and keypad lock.	
 TH-115	Single stage thermostat with rain tight enclosure and 40° to 100°F range. Rugged weatherproof control for use in agricultural, industrial and commercial environments with heavy moisture atmospheres. 16.0 FLA, 25.0 amps resistive at 120V. Watertight NEMA 4X when used with watertight connections (24, 120 or 220V). Consult amp rating of unit for proper sizing.		 TH-109	Two-stage t-stat with rain tight enclosure. 40° to 100°F range. Rugged weatherproof control for use in agricultural, industrial, and commercial environments with heavy moisture atmospheres. Consult amp rating of unit for proper sizing. 24, 120, 208, 240 and 277 VAC.	
 ET9MTS	Columbus Electric single stage or two-stage , double throw, low or line voltage thermostat. 50°F to 90°F range (24V-120V). Non-adjustable, preset 2° high/low fire differential. UL Listed and CSA Certified.		 RS-BR54	Outdoor sensor for use with TH-BR52 thermostat. Mounts outdoors up to 200 ft. away. Sense range capability of -40°-99°F depending on thermostat. Contemporary design for any decor. NOTE: Cannot be used in place of the indoor sensor.	
 TH-BR52	Braeburn two-stage or single-stage control with flexible programming for residential and commercial applications. 7 Day, 5-2 Day or Non-Programmable. 45°-90°F control range. Indoor or outdoor remote sensing capable. Multi-Level keypad lockout. Bright blue backlight. Hardwire or battery powered. Meets California Title 24 guidelines.		 RS-BR53BB	2 pc. black box to house the RS-BR53. Use for radiant sensing applications.	
 RS-BR53	Indoor sensor for use with TH-BR52 thermostat. Mounts up to 200 ft. away. Sense range of 4 0°-99°F depending on thermostat. Contemporary design for any decor.		 TH-1F86WF	Single stage or two stage control. 24V Wi-Fi programmable thermostat with remote access from smartphone, tablet, or PC. Adjust the temperature with just a touch, from anywhere, when connected to a Wi-Fi network. Hardwire only. Temperature range 40°-99°F.	
 TH-PSPLV	LuxPro single stage 120V programmable line voltage thermostat. No relay transformer required. 5/2-day(4-period) operation. 45°-90°F range. Single stage operation, 16 Amp @ 120V (3 tube heaters max.) single pull. Features include °C/°F display, easy programming, timers, wall plate included and more. 120V only.		 TH-B305WF	Single stage or two stage control. 24V Wi-Fi programmable thermostat with remote access from smartphone, tablet, or PC. Hardwire only. Temperature range 40°-99°F. Compatible with RS-BR53 and RS-BR54 sensors.	

MP SERIES CONTROL OPTIONS





PART NO.	DESCRIPTION	Quantity	PART NO.	DESCRIPTION	Quantity
 PUI	This advanced microprocessor based controller, loaded with powerful and custom features, is a smart logic controller that offers optimal performance out of your MP Series heater . Allows heater(s) to modulate will full PID controller that considers various inputs and outputs, utilizes the current set temperature (based on an on-board thermistor or an externally connected zone sensor), mode selected, and other variables to determine the rate of modulation. Optional integration with remote sensors (sold separately).		 MP-P	Potentiometer. Used to control MP Series heater(s) in outdoor or spot heating environments to allows the user to manually control the heater's firing rate based on the dial position.	
			 MP-T	Remote temperature sensor, 10kohm for use with the MP Series heater. Indoor use only.	
			 MP-T-OD	Remote temperature sensor, 10kohm for use with the MP Series heater. For "indoor wet environments" or outdoor use.	

ELECTRICAL COMPONENTS

PART NO.	DESCRIPTION	Quantity
 4000-01V	40 VA transformer 120-24VAC primary & secondary. Mounted on 4 x 4 base plate. Can be used for all 24V heaters or controls manufactured or provided by Detroit Radiant Products.	
 MTGRD	White Rodgers thermostat metal guard. Beige metal material with locking key. 3.8125"H x 6"W x 3.125"D. Mounts (vertical or horizontal) to exposed "J" box. Includes hardware.	
 F29GRD	White Rodgers thermostat guard. Clear plastic material with locking key. 5.375"H x 8.25"W x 3.5"D. Mounts (vertical or horizontal) to exposed "J" box. Includes hardware.	

PART NO.	DESCRIPTION	Quantity
 R8285B	Combination relay transformer, dual pole 13.8 resistive amps each pole (Max. 5 heaters total). For controlling 120V units with 24V thermostats. 120V power in, 24V power out. U.L. Listed.	
 Relay Panels are intended for projects where an internal relay was forgotten on the HL2/HL3 series heater during production. Refer to page 5 for additional information.		
2 boards inside NEMA (1) box	4 boards inside NEMA (1) box	6 boards inside NEMA (1) box
HLPNL-2	HLPNL-4	HLPNL-6
		10 boards inside NEMA (1) box
		HLPNL-10
















NON THERMOSTATIC CONTROLS

PART NO.	DESCRIPTION	Quantity
 TH-DSSS1	<u>Single-zone, single-stage</u> , low voltage infrared patio heater controller with illuminated control knob. Standard with faceplate and heavy duty junction box.	
 TH-DSSS2	<u>Two-zone, single-stage</u> , low voltage infrared patio heater controller with two illuminated control knobs. Standard with faceplate and heavy duty junction box.	
 WEP-TS	Weatherproof enclosure package with 4-hour timer and on-off control. Ideal for use in outdoor heating applications where timer control is desired. Package for two-stage scenarios. Can operate up to 120V-20 amp. Can also be used for 24V switching. Field assembly and wiring required.	
 MP-P	Potentiometer. Used to control MP Series heater(s) in outdoor or spot heating environments to allow the user to manually control the heater's firing rate based on the dial position.	






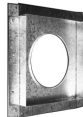

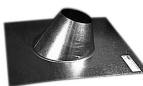






PART NO.	DESCRIPTION	Quantity
 TH-DSTS1	<u>Single-zone, two-stage</u> , low voltage infrared patio heater controller with illuminated control knob. Standard with faceplate and heavy duty junction box.	
 TH-DSTS2	<u>Two-zone, single-stage</u> , low voltage infrared patio heater controller with two illuminated control knobs. Standard with faceplate and heavy duty junction box.	
 SWPD60	Paragon Timer. Manually activated time control with white wall plate and knob. 120V - 20amp @ 120 Volts or 240 / 277 Volts -10 amps. Also compatible with 24V systems.	
SWPD-4H	60 minute twist timer with 5 minute increments.	
	4 hour twist timer.	

NOTE: Refer to heater manual on field wiring to determine if the use of a relay and external transformer will be required (eg. 4000-01V).

ADVANCED CONTROL OPTIONS










PART NO.	DESCRIPTION	Quantity	PART NO.	DESCRIPTION	Quantity
 CNG-GDIC	Control panel consisting of the TH-BR52 thermostat, 4000-01V transformer, with a 12" x 10" x 4" NEMA 1 box. Commonly used in CNG applications as it also comes with an internal relay to allow a 120V signal to open the relay and deactivate the call for heat.			State-of-the-art pre-programmed building management controller housed in a stylish and durable enclosure. Use as a standalone unit or part of an overall building management system. Features include: • BACnet MSTP • LCD user interface • Multischedule • Zone labeling • Zone indicator lights • Fire alarm • Positive on/off capability • Outside air sensor for heat anticipation capability (sensor sold separately) • Time clock battery backup (-10S and -6D models only) • 96 VA transformer (shipped loose for external field mount) for 24 V side of the heaters unless otherwise specified	
 TH-1F95-TS	White Rogers Programmable MV-30V, single or two stage, touch-screen display thermostat with remote sensing. Adjustable temperature differential (0.6-1.2). 4 and 2 period; 7 or 5+1+1 day programming options. 1.5 amps per terminal allows operation of up to 30 two-stage heaters w/ HLRB boards and transformer. Used with one (1) remote sensor (RS-F145).			• Capable of 4 single stage zones. • Max. 36 heaters for DX3L, CX3, UH, & FA (must include ERK per heater). • Max. 36 heaters for DX2(-SS) & DES3 (must include 24VAOX per heater).	
 RS-F145	Remote sensor for use with TH-1F95-TS. For indoor use only. Sensor can be placed up to 200 feet away.			• Capable of 4 two stage zones. • Max. 62 heaters for HL2-SB(-SS) with HLRB. • Max. 18 heaters for REV, HL3, CL3, DSR, DST (must include HLRP or ERK per heater) or DET3.	
 TH-HWC2	Electronic temperature controller with 2 temperature inputs, 4 SPDT relays, single or two stage. 1 RS-SIS sensor included. 24,120 240V°F, max 2 sensors, heaters require 24VAO or HLRP.			• Capable of 10 single stage zones. • Max. 36 heaters for DX3L, CX3, UH, & FA (must include ERK per heater). • Max. 36 heaters for DX2(-SS) & DES3 (must include 24VAOX per heater).	
 RS-ODS	Remote 1097 ohm outdoor air temperature sensor for use with TH-HWC2 (probe mounted in weather-proof case).			• Capable of 6 two stage zones. • Max. 62 heaters for HL2-SB(-SS) with HLRB per heater. • Max. 18 heaters for REV, HL3, CL3, DSR, DST (must include HLRP or ERK per heater) or DET3.	
 RS-SIS	Remote 1097 ohm indoor air temperature sensor (probe only). For use with TH-HWC2.		 DRPCO-RS	Deluxe wall mount 24 V remote temperature sensor. 14°–158°F temperature range. Delivers a 4–20 mA signal to controller up to 300 ft. 10 KΩ.	
 RS-WRS	Wall mount remote 1097 OHM air sensor for use with TH-HWC2 (probe mounted in case).		 DRPCO-ODRS	Outdoor deluxe wall mount 24 V remote temperature sensor. 14°–158°F temperature range. Delivers a 4–20 mA signal to controller up to 300 ft. 10 KΩ. For "indoor wet environments" or outdoor use. For use with DRPCO and TH-BR52 controllers.	
 BBS-AO	Black bulb sensor add-on. Upgrade remote sensor to be enclosed in a black bulb for jobs that require radiant temperature sensing inside a black bulb. Must be used in conjunction with sensors rated for "indoor wet environments." Refer to sensor descriptions for compatibility. Contact factory for guidance.				






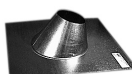


3-INCH VENT MATERIAL

PART NO.	DESCRIPTION	Quantity	PART NO.	DESCRIPTION	Quantity
 DB-DSK	3 in. vent package. Complete sidewall venting kit for lengths up to 12 feet. Includes: 1)DB-208, 1)DB-209, 1)DB-210, and 1)DB-211. 30 in. assembled length		 DB-RTVP	3 in. rooftop vent package. Complete kit for vertical venting through roof. Includes: DB-211, DB-RVC, DB-FS, DB-ARF, DB-VE and RTV-106 sealant. NOTE: B or C vent pipe material is not included.	
 WVE-3	3 in. O.D. galvanized steel vent outlet cap with flapper. Flapper insures proper static pressure for proper unit operation. Must be used in unvented applications. Not for use in residential applications (all residential heaters must be externally vented).		 DB-RVC	3 in. rooftop vent cap. All aluminum construction. For use on vertical rooftop vent applications only. Diameter is 7-1/4 in.	
 DB-208	3 in. Duravent vent cap. Used for sidewall venting of the 3 in. Series models. Diameter is 7-3/4 in.		 DB-FS	3 in. rooftop firestop spacer. For use with 3 in. venting through the ceiling. 8 in.x 8 in. square. Galvanized steel construction.	
 DB-209	3 in. x 18 in. doublewall B-vent. Used for penetrations through combustible walls or roofs while venting 3 in. models.		 DB-ARF	3 in. adjustable rooftop flashing. For use with 3 in. venting through the roof. Adjustable angle of flat to 6/12 pitch. Galvanized steel construct	
 DB-210	3 in. wall thimble. Used in conjunction with B-vent for penetrations through combustible walls and/or roofs		 DB-VE	3 in., 90° vent elbow. 26 gauge galvanized steel, 3 in. O.D. allows for connection of vent pipe to roof vent packages. One end is crimped. DB-VE may not be substituted for DB-E6.	
 DB-211	3 in. Duravent B to C adapter. This union is used to join C-vent with B-vent.		 DB-YSM	Dual exhaust assembly, "Y" shaped, 26 gauge galvanized steel, 3 in. O.D. x 4 in. O.D. x 3 in. O.D. Units connect at a 90° angle to the 3 in. leg. 4 in. vent connection is crimped for ease of vent hook-up. Adjustable elbows are not included. Heaters must share a common thermostat.	
 DB-48-BV	3 in. x 48 in. doublewall B-vent. Used for penetrations through combustible walls or roofs while venting 3 in. models.				
 DB-BVP	3 in. x 60 in. doublewall B-vent. Used for penetrations through combustible walls or roofs while venting 3 in. models.				




NOTE: An approved vent cap must be used when sidewall venting. **Consult local codes when venting.**




4 INCH VENT MATERIALS

PART NO.	DESCRIPTION	Quantity
 WVE-GALV	Galvanized steel vent outlet cap 4 in. O.D. with flapper. Flapper insures proper static pressure for proper unit operation. Must be used with unvented units.	
 4-DSK	4 in. Duravent sidewall vent kit with all items for sidewall venting. Includes: SWD-4, WT-4, 18BV-4, DHC-4. No vent pipe material is included. 29 in. long when fully assembled. NOT APPROVED FOR V2 200,000 Btu/h MODELS	
 SWD-4	4" Duravent sidewall vent cap. All aluminum construction. Diameter is 8-3/4 in.	
 WT-4	4 in. wall thimble. Protection for venting through a sidewall application. Measures 8.5 in. outer diameter, 6.5 in. inner diameter. Adjustable 4 in. to 6 in. depth.	
 DHC-4	4 in. drafthood connector. B-C adapter for connecting vent pieces.	
 18BV-4	4 in. x 18 in. Doublewall B-vent. Used for penetrating through combustible wall and/or roofs.	
 BR-36-BV	4 in. x 36 in. Doublewall B-vent. Used for penetrating through combustible wall and/or roofs.	
 BR-48-BV	4 in. x 48 in. Doublewall B-vent. Used for penetrating through combustible wall and/or roofs.	
 BVP-4	4 in. x 60 in. Doublewall "B" type vent. Used for penetrating through combustible wall and/or roofs.	

PART NO.	DESCRIPTION	Quantity
 SK4	Field Controls 4 in. vent terminal with internal screen. For use when side wall venting. V2 200,000 Btu/h models only. Diameter is 10.25 in.	
SK4-VK	4 in. field controls vent terminal with internal screen V2 200,000 Btu/h model side wall vent kit. Includes: SK-4, WT-4, 18BV-4, DHC-4.	
 TF-9	4 in. side wall vent terminal with screen. 16 gauge aluminized steel construction, 18 in. long, one 4 in. clamp, Bird screen on exhaust end. Not approved on 200,000 Btu/h models.	
 RTVP-4	4 in. rooftop vent/intake package. Complete kit for vertical venting through the roof. Includes: RVC-4, DHC-4, FS-4, ARF-4, VE-4, VT-4 and RTV-106 sealant. NOTE: Vent and B-vent must be ordered separately.	
 RVC-4	4 in. Simpson Duravent rooftop vent cap. All aluminum construction. For use on intake or exhaust vertically through the roof. Diameter is 8 in.	
 FS-4	4 in. rooftop firestop spacer. For use with 4 in. venting through the ceiling. 8 in. x 8 in. square, galvanized steel construction.	
 ARF-4	4 in. adjustable rooftop flashing. For use with 4 in. venting through the roof. Galvanized steel. Adjustable angle of flat to 6/12 pitch.	
 VE-4	4 in. 90° vent elbow. 26 gauge galvanized steel, 4 in. O.D. allows for connection of vent pipe to roof unit packages. One end is crimped. VE-4 may not be substituted for E6.	
 VT-4	4 in. vent tee with 4 in. clean out. 26 gauge galvanized steel vent pipe construction. For venting with clean out requirements.	

6 INCH VENT MATERIALS - DUAL VENT MATERIALS

PART NO.	DESCRIPTION	Quantity
 SK-6	Field Controls 6 in. vent terminal with internal screen. Can only be used for <u>dual</u> side wall venting of V2 200,000 Btu/h models only. Diameter is 12.5 in.	
 YSM	Dual exhaust assembly, Y-shaped, 26 gauge galvanized steel with baffle. 4 in. O.D. x 6 in. O.D. x 4 in. O.D. Two adjustable elbows included to ease installation. For use when common venting two heaters. Heaters must share a common thermostat. Dimensions - 14 in. left-right, 13 in. high.	
 RTVP-6	6 in. rooftop vent package. Complete kit for vertical venting through the roof. Includes: RVC-6, DHC-6, FS-6, ARF-6, and SC-6, VE-6 RTV-106 sealant VT-6. No vent pipe or B-vent material is included.	

PART NO.	DESCRIPTION	Quantity
 Y	Dual exhaust assembly, Y-shaped, 16 gauge aluminized steel. 4 in. O.D. x 6 in. O.D. x 4 in. O.D. Two tube clamps included. For use when common venting two heaters. Heaters must share a common thermostat. Dimensions - 21.5 in. left-right, 13 in. high.	
 6-DSK	6 in. Duravent sidewall vent kit with all items for sidewall venting. Includes: SWD-6, WT-6, 18BV-6, DHC-6. No vent pipe material is included. 30 in. long when fully assembled. NOT APPROVED FOR V2 200,000 Btu/h Models.	
 RVC-6	6 in. rooftop vent cap. All aluminum construction. For use on air intake or vent exhaust. Diameter is 11.5 in.	

Consult local codes when venting

BURNER PRICING*		
PART NO.	DESCRIPTION	Quantity
BRN-FT-BTU-GAS-MP	MP Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-HL2	HL2 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-HL3	HL3 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-DX2	DX2 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-DX3L	DX3L Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-ST2	ST2 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-SE2	SE2 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-DET3	DET3 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-DES3	DES3 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-LD2	LD2 Brn, (1) Hgr, Hose & Baffle	
BRN-FT-BTU-GAS-LS2	LS2 Brn, (1) Hgr, Hose & Baffle	

* Must state **Length, BTU** and **Gas Type** when replacing burner.

ADDITIONAL KIT PRICING		
PART NO.	DESCRIPTION	Quantity
DB-10Kit	10 Ft. Full 3" Mounting Kit	
DB-20Kit	20 Ft. Full 3" Mounting Kit	
DB-30Kit	30 Ft. Full 3" Mounting Kit	
10-Kit	10 Ft. Full 4" Mounting Kit	
20-Kit	20 Ft. Full 4" Mounting Kit	
30-Kit	30 Ft. Full 4" Mounting Kit	
40-Kit	40 Ft. Full 4" Mounting Kit	
50-Kit	50 Ft. Full 4" Mounting Kit	
60-Kit	60 Ft. Full 4" Mounting Kit	
70-Kit	70 Ft. Full 4" Mounting Kit	
80-Kit	80 Ft. Full 4" Mounting Kit	

Additional Mounting Kit includes applicable hangers, clamps and center supports. Also included is (2) reflector end caps, and (8) clips. **Note:** Kits for 150-200 MBH models receive one stainless steel tube clamp.

LIMITED WARRANTY GUIDELINES AND OPTIONS

All limited warranties, are defined in the product insert manual for the particular series of heaters. Please contact the factory for further information on the terms and conditions.

STANDARD WARRANTY	BURNER BOX COMPONENTS	TUBES/ EXCHANGERS	BURNER
MP, HL3, HL2, -SB, -SS, DX2, DX3L, CL3, CX3, HL2-DS	1 YEAR	5 YEARS	10 YEARS
LD2, LS2	1 YEAR	3 YEARS	5 YEARS
DET3, ST2, DES3, SE2	1 YEAR	2 YEARS	3 YEARS

IN HOUSE GAS CONVERSIONS

PART NO.	DESCRIPTION	Quantity
S1-CONV.	Converting a single stage heater from LP to Natural Gas or Natural Gas to LP. Kit includes 1 gas valve, 1 burner orifice, 1 air collar and 1 conversion label. Model and serial number must be specified. Conversion can be made depending on age and condition of heater. Conversions are not available on DTHS models.	
S2-CONV.	Converting a two stage heater from LP to Natural Gas or Natural Gas to LP. Kit includes 1 gas valve, 1 burner orifice, 1 air collar and 1 conversion label. Model and serial number must be specified. Conversion can be made depending on age and condition of heater.	

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