



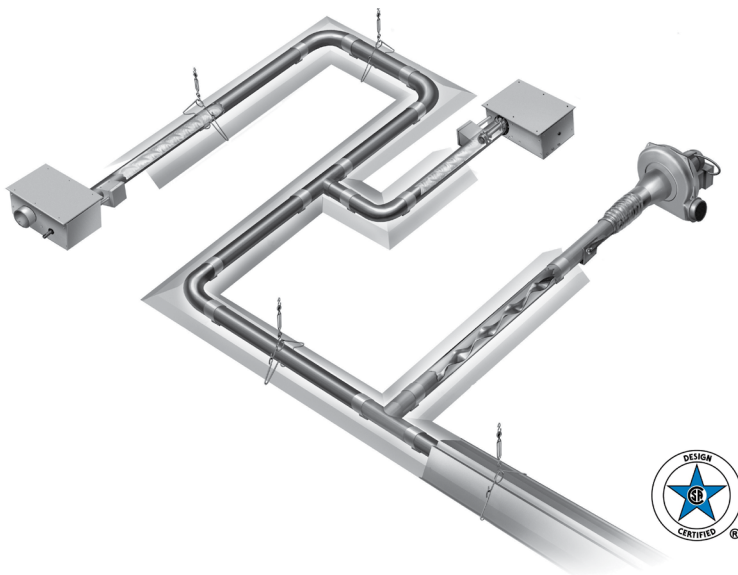
# HLV SERIES PACKING LIST

Heaters & Accessories

Effective 4-17-2023

To be used in conjunction with Low Intensity, 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.



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.

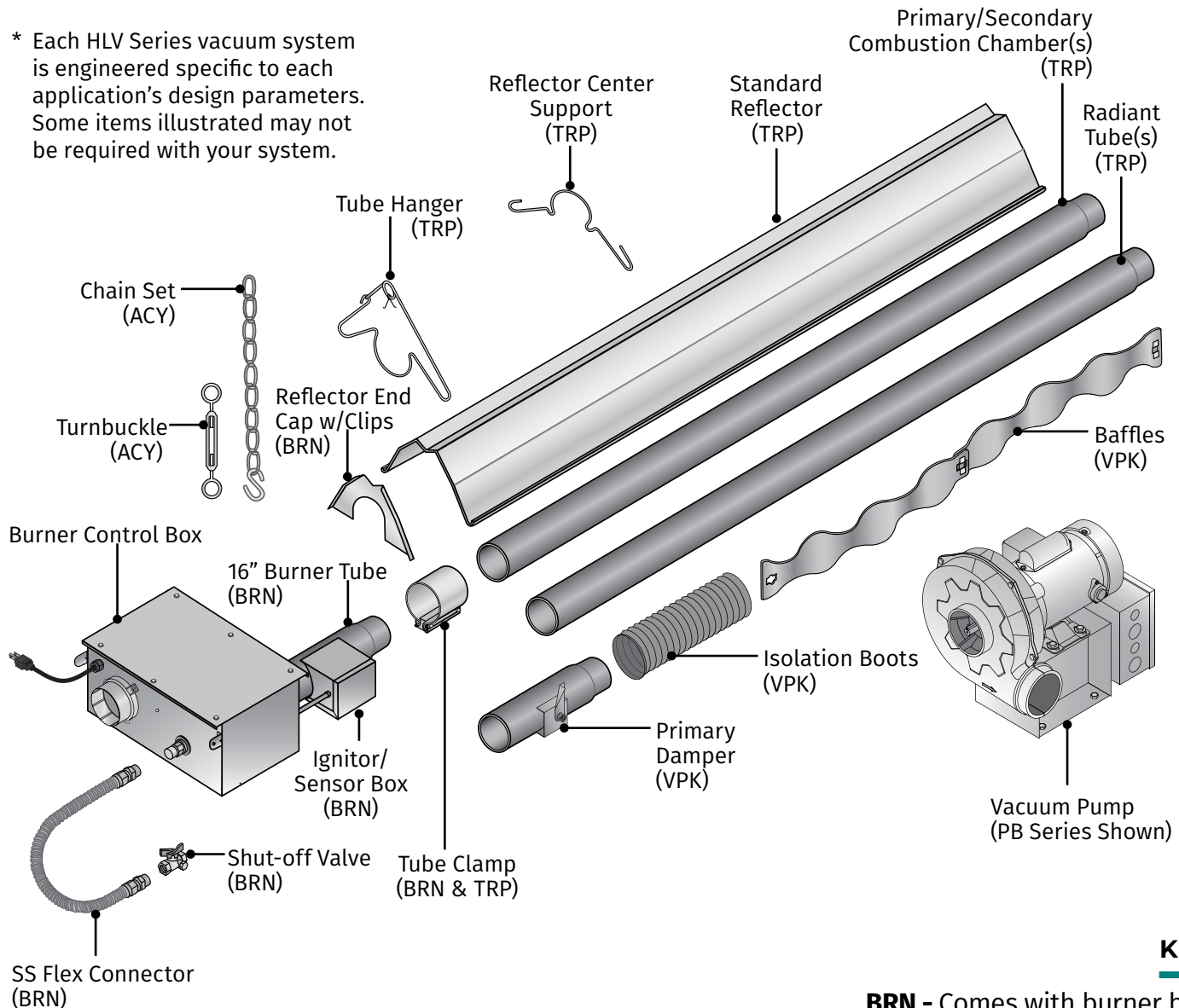
**Shipping Weight Notation:** Shipping weight is shown for each item.  
The per item weight will typically be less when packaging multiple items on one order.  
Replacement parts can be found at [www.reverberray.com/shop](http://www.reverberray.com/shop).

# HLV EQUIPMENT SELECTION GUIDE

**STEP 1:** Using the design criteria found in the HLV installation manual, identify if the system will be a non-condensing or a condensing design (refer to pages 10-13).

**STEP 2:** Select your parts and pieces. The burner box, tube and reflectors, accessories, and pumps are all sold as separate items.

\* Each HLV Series vacuum system is engineered specific to each application's design parameters. Some items illustrated may not be required with your system.



## KEY

**BRN** - Comes with burner box  
**TRP** - Comes with tube and reflector packages  
**VPK** - Comes with vacuum pump kit  
**ACY** - Sold as an accessory

**STEP 3:** Select your controls, miscellaneous accessories, and venting. Refer to the specific equipment price lists.

**NOTE:** All HLV burners come equipped with an internal isolation relay. **P/N: HLRB**. Refer to page 35 in the installation manual for field wiring to determine additional electrical components required.

# COMMON SYSTEM REMINDERS

## MINIMUM DISTANCE FROM BURNER TO FIRST ELBOW OR INTERSECTION (COVERED WITH REFLECTOR\*)

INDIVIDUAL BURNER INPUT (BTU/h)	MINIMUM DISTANCE**
40,000 to 60,000	10 ft.*
75,000 to 80,000	10 ft.*
90,000 to 100,000	10 ft.*
110,000 to 125,000	10 ft.*
140,000 to 150,000	15 ft.*
170,000 to 180,000	15 ft.*
200,000	20 ft.

\* Exposed tube connections (elbow, tees, U-bends, and intersections not covered with a reflector) **cannot** be placed less than 20 feet downstream of burner. The top clearance of an exposed tube connection to combustibles is 18 inches.

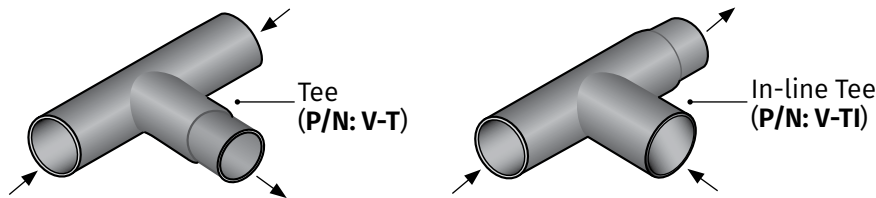
\*\* Be sure to account for runs where tandem tee sets (P/N: V-TTS) are used in the system.

## DAMPERS

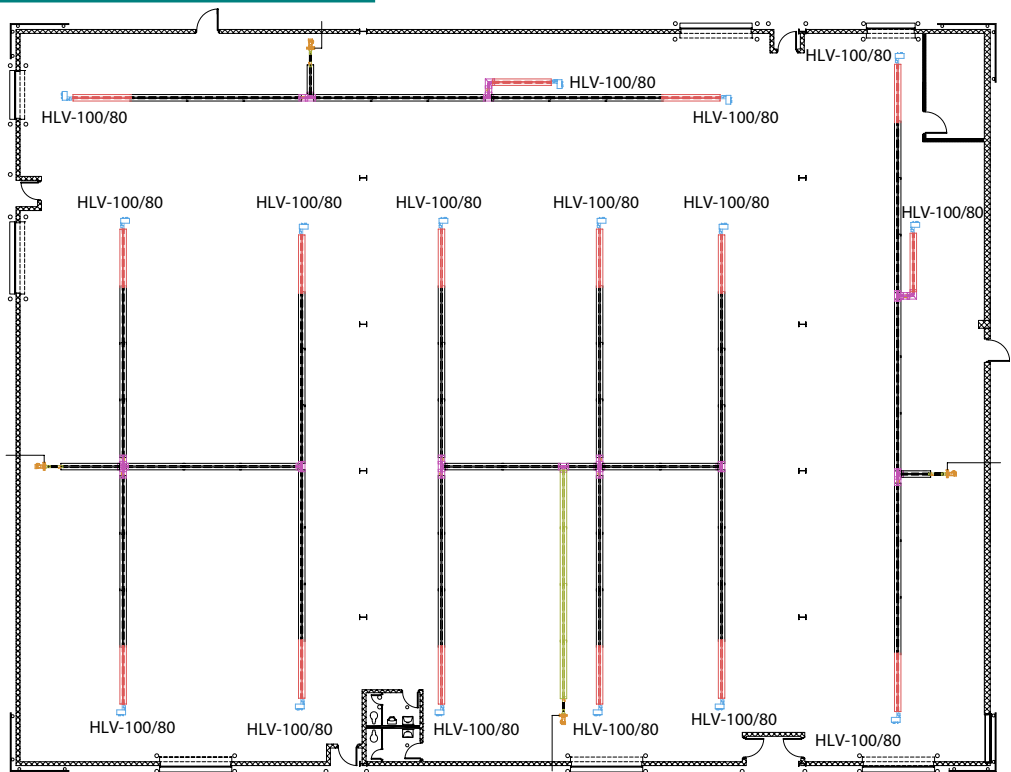
A **primary damper** is provided with every system and is placed before the vacuum pump. Systems with variances in burner gas inputs and/or radiant tube runs will require the placement of **secondary dampers** to balance the system's exhaust flow. **NOTE:** A maximum of six dampers are allowed in a system. Refer to Figures 2.12 - 2.14 on page 19 of the HLV installation manual for examples of damper placement.

## PROPER TEE SELECTIONS

Proper tee usage is critical. → = Flow



## SAMPLE VACUUM SYSTEM APPLICATION



## BURNER PACKAGES

MODEL NO.	BTU/h HIGH FIRE	BTU/h LOW FIRE	GAS TYPE (CIRCLE ONE)	QTY.
HLV-40	40,000	40,000	Natural or Propane	
HLV-50	50,000	50,000	Natural or Propane	
HLV-60	60,000	50,000	Natural or Propane	
HLV-75	75,000	60,000	Natural or Propane	
HLV-80	80,000	64,000	Natural or Propane	
HLV-90	90,000	72,000	Natural or Propane	
HLV-100	100,000	80,000	Natural or Propane	
HLV-110	110,000	88,000	Natural or Propane	
HLV-120	120,000	96,000	Natural or Propane	
HLV-125	125,000	100,000	Natural or Propane	
HLV-140	140,000	112,000	Natural or Propane	
HLV-150 <sup>1</sup>	150,000	120,000	Natural or Propane	
HLV-170 <sup>1</sup>	170,000	136,000	Natural or Propane	
HLV-175 <sup>1</sup>	175,000	140,000	Natural or Propane	
HLV-180 <sup>1</sup>	180,000	144,000	Natural or Propane	
HLV-200 <sup>1</sup>	200,000	160,000	Natural or Propane	

Shipping Weight = 30 lbs.

Box Dimensions = 36"L x 24"W x 9"H

**Included:** (1) TP-21B, (1) TP-19B, (1) TP-105 with (4) clips, (1) GC-50 ball valve, and (1) 24 in. stainless steel flexible gas connector.

<sup>1</sup>Models HLV-150, -170, -175, -180, and -200 receive TP-220 stainless steel clamp in place of TP-21B.

## AVAILABLE ADD-ON/UPGRADE OPTIONS

(REFER TO LOW INTENSITY PRICE LIST FOR DESCRIPTIONS)

MODEL SERIES	SILSEAL	IND-LT	PC-60	HLRB	CNG-AO	SSTAO	SSTAO-5	SSRAO	SSRAO-5	SSTRAO	SSTRAO-5	SSC-##	SSB-##	FC-24 "Flex"	FC-24PVC-AO "PVC Flex"	FC-36-AO "36 in. Flex"	GC-50 "1/2 in. Valve"
HLV	O	S	S	S	O	X	X	O	O	X	X	O	O	S	O	O	S

## OPTIONS KEY

<b>O</b>	Option Available	<b>S</b>	Standard Feature
<b>N</b>	Option Not Available	<b>X</b>	Available in BTU range of 75,000–200,000 only.

## AVAILABLE UPGRADE OPTIONS<sup>2</sup>

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

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
<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.		<b>FC-24PVC-AO*</b>	Upgrades standard FC-24 (24") flexible gas connector to a 24" PVC coated flexible gas connector.	
<b>2.5EA-SUB*</b>	Upgrades (1) 5' piece of radiant tubing and reflector with (2) 2½' pieces. (1) clamp and (1) hanger included. Available for use with VTR60, VHRE-60, and STP60 packages only.		<b>FC-36-AO*</b>	Upgrades FC-24 (24") flex connector to a FC-36 (36") flexible gas connector.	
<b>5EA-SUB*</b>	Upgrades (1) 10' piece of radiant tubing and reflector with (2) 5' pieces. (1) clamp and (1) hanger included. Available for use with all tube and reflector packages except for TR-C combustion packages.		<b>H-DRVAO*</b>	Modifies the existing HLV internal wiring when replacing an older DRV Series burner.	
			<b>V-1SAO*</b>	Single stage add-on.	
			<b>CNG-AO*</b>	Upgrades system to be CNG designated. Includes one liner tube to be installed into each combustion tube. One CNG-AO required per burner. <b>Only used on 60 MBH models and under.</b>	

<sup>2</sup>See page 8 for optional -SS upgrades.

## TUBE & REFLECTOR PACKAGES

### IMPORTANT

Each HLW burner must be ordered with one titanium combustion chamber (TR-C).  
Titanium tube must be placed as the first tube after burner, regardless of burner BTU.

### BLACK-COATED TITANIUM COMBUSTION CHAMBER & REFLECTOR PACKAGES

MODEL NO.	DESCRIPTION	WEIGHT	QTY.
TR-C	(1) 10' x 4" Titan. tube, (1) TP-21B clamp, (2) TP-19B hangers, (1) TP-82 RCS	35 lbs.	
TR-C2	(2) 10' x 4" Titan. tubes, (2) TP-21B clamps, (4) TP-19B hangers, (2) TP-82 RCS	70 lbs.	
TR-C3	(3) 10' x 4" Titan. tubes, (3) TP-21B clamps, (6) TP-19B hangers, (3) TP-82 RCS	110 lbs.	
TR-C4	(4) 10' x 4" Titan. tubes, (4) TP-21B clamps, (8) TP-19B hangers, (4) TP-82 RCS	145 lbs.	

### BLACK-COATED ALUMINIZED TUBE & REFLECTOR PACKAGES

MODEL NO.	DESCRIPTION	WEIGHT	QTY.
V10EA	(1) 10' x 4" Alum. tube, (1) TP-21B clamp, (1) TP-19B hanger, (1) TP-82 RCS	35 lbs.	
V20EA	(2) 10' x 4" Alum. tubes, (2) TP-21B clamps, (2) TP-19B hangers, (2) TP-82 RCS	70 lbs.	
V30EA	(3) 10' x 4" Alum. tubes, (3) TP-21B clamps, (3) TP-19B hangers, (3) TP-82 RCS	110 lbs.	
V40EA	(4) 10' x 4" Alum. tubes, (4) TP-21B clamps, (4) TP-19B hangers, (4) TP-82 RCS	145 lbs.	
VTR60	(1) 5' radiant tube, (1) 5' reflector, (1) TP-21B clamp, (1) TP-19B hanger	20 lbs.	

### UNCOATED HOT-ROLLED STEEL TUBE & REFLECTOR PACKAGES<sup>3</sup>

MODEL NO.	DESCRIPTION	WEIGHT	QTY.
V10HRE	(1) 10' x 4" HRT tube, (1) TP-21B clamp, (1) TP-19B hanger	35 lbs.	
V20HRE	(2) 10' x 4" HRT tubes, (2) TP-21B clamps, (2) TP-19B hangers	70 lbs.	
V30HRE	(3) 10' x 4" HRT tubes, (3) TP-21B clamps, (3) TP-19B hangers	110 lbs.	
V40HRE	(4) 10' x 4" HRT tubes, (4) TP-21B clamps, (4) TP-19B hangers	145 lbs.	
VHRE-60	(1) 5' HRT tube, (1) 5' reflector, (1) TP-21B clamp, (1) TP-19B hanger	20 lbs.	

<sup>3</sup>150,000 to 200,000 BTU/h burners with hot-rolled steel tube package require an aluminized secondary combustion chamber (V10EA) to be installed immediately downstream the titanium stabilized (TR-C) combustion chamber.

**NOTE:** All clamps, hangers, and other kit items are shipped with the tubes and reflectors.

## VACUUM EXHAUSTER PACKAGES

\*If wiring motor on 230 VAC, pump panel transformer must be modified. Consult factory.

MODEL NO.	TOTAL SYSTEM MBH RANGE	BURNERS PER PUMP <sup>5</sup>	INPUT VOLTAGE	PH.	HP	AMPS	SHIPPING WEIGHT	INLET ADAPTER INCL.	OUTLET ADAPTER INCL.	QTY.
NC-7A <sup>4</sup>	40-150	2 max.	120 V	1	1/15	1.95	25 lbs.	N/A	N/A	
PB8A-1PH	50-275	4 max.	120/230 V*	1	1/2	7.40	65 lbs.	4"	4"	
PB8B-1PH	50-275	4 max.	208 V	1	1/2	3.90	65 lbs.	4"	4"	
PB8B-3PH	50-275	4 max.	208 V	3	1/2	2.60	65 lbs.	4"	4"	
PB8F-3PH	50-275	4 max.	460 V	3	1/2	1.00	65 lbs.	4"	4"	
PB9A-1PH	280-545	5 max.	120/230 V*	1	3/4	9.60	72 lbs.	5"	4"	
PB9B-1PH	280-545	5 max.	208 V	1	3/4	5.00	72 lbs.	5"	4"	
PB9B-3PH	280-545	5 max.	208 V	3	3/4	3.10	72 lbs.	5"	4"	
PB9F-3PH	280-545	5 max.	460 V	3	3/4	1.30	72 lbs.	5"	4"	
PB10A-1PH	550-750	6 max.	120/230 V*	1	1	11.60	78 lbs.	6"	5"	
PB10B-1PH	550-750	6 max.	208 V	1	1	6.10	78 lbs.	6"	5"	
PB10B-3PH	550-750	6 max.	208 V	3	1	4.10	78 lbs.	6"	5"	
PB10F-3PH	550-750	6 max.	460 V	3	1	1.80	78 lbs.	6"	5"	



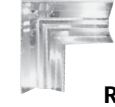




<sup>4</sup> NC-7 is for non-condensing systems only.

<sup>5</sup> Consult factory if exceeding maximum burners is required.



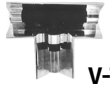

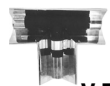



Vacuum pumps come with a pre-assembled exhaustor panel which includes a post-purge timer and hook-up for 24 V controls. All pumps have internal overload protection. **NC-7 Pump Includes:** (1) V-D damper, (1) TP-105 end cap, (4) TP-106 clips, (1) TP-21B 4" clamp, (3) TP-65I baffles, and silicone. **PB Series Pump Includes:** (1) V-D-SS stainless damper, (1) TP-105 end cap, (4) TP-106 clips, (1) TP-220 SS 4" clamp, (3) TP-65I baffles, (2) adapters, (2) V-23 16" isolation boots, (4) V-24 hose clamps, and silicone. **Consult manual for replacement part numbers.**



# ACCESSORIES

PART NO.	DESCRIPTION	QTY.
 <b>V-D</b>	16" damper used to equalize the pressure on each leg of the vacuum system. 16 ga. aluminized steel, 4" diameter with (1) tube clamp. A V-D must be used on each run from the pump (except the longest) that has a 5' (or greater) length differential from any other leg in the system.	8 lbs.
<b>REF-18</b>	18" aluminum reflector. Includes (1) RCS, (1) end cap, and (4) clips. Used to cover damper.	3 lbs.
<b>V-DKIT</b>	V-D (damper) and REF-18 (reflector) package.	11 lbs.
 <b>E6*</b>	(1) Elbow [6" radius, 90° bend, 4" diameter, 16 ga. aluminized steel with black coating], (1) tube clamp, (1) hanger, and (2) reflector end caps with (8) clips. Consult IOPM for minimum distance from burner.	7 lbs.
 <b>RE*</b>	Reflector Elbow—90° bend, with polished, one side bright, aluminum reflector elbow. Designed to fit atop one elbow (not included). Field assembled with aluminum gussets and pop rivets provided.	5 lbs.
 <b>REP*</b>	Reflector and elbow package—One RE and one E6. Consult IOPM for minimum distance to burner. No end caps or clips included.	12 lbs.
 <b>45E*</b>	(1) Elbow [6" radius, 45° bend, 4" diameter, 16 ga. black-coated aluminized steel], (1) tube clamp, (1) hanger, and (2) reflector end caps with (8) clips. Consult IOPM for minimum distance from burner.	7 lbs.
 <b>V-TB</b>	Turnbuckle for sloping condensing tailpipe. One piece required for each 5' and 10' tube. Designed to fit standard "S" hook. Not required when using THGH accessories.	0.5 lb.
 <b>V-SMK</b>	Vacuum pump sidewall mounting kit. Designed to support PB Series vacuum pumps installed on a sidewall application. <b>NOTE:</b> Consider vacuum pump control panel access when designing system with V-SMK.	3 lbs.
<b>V-TTS</b>	Tandem Tee Set. Designed to emulate in series burners. Includes: (1) V-TERI, (1) V-DKIT, and (1) REP. Must attach to TR-C or a min. 10' space between burner and elbow. Field assembly required. Ships in two (2) boxes.	40 lbs.
<b>WVE-ALUM*</b>	Aluminum sidewall vent cap with flapper. WVE is to be used for sidewall venting applications. 4" diameter. <b>4-DSK</b> is also approved.	2 lbs.

**NOTE:** If system design is to warrant use of a U-bend package, consult factory for approval.

PART NO.	DESCRIPTION	QTY.
 <b>V-RTE</b>	Reflector used to cover a V-T or V-TI. Polished one side bright aluminum. Reflector assembly includes: left, right, and center sections; (2) brackets; and (15) screws. Field assembled with aluminum gussets and pop rivets provided.	5 lbs.
 <b>V-T</b>	Tee fitting used to join two legs of a vacuum system. 16 ga. aluminized steel, 4" diameter tee with black coating. Includes: (1) tube clamp, (1) hanger, (3) end caps, and (12) clips. Only the middle leg is swaged (see clamp location in picture).	10 lbs.
 <b>V-TER</b>	V-T package with V-RTE reflector package.	15 lbs.
 <b>V-TI</b>	In-line tee fitting used to join two legs of a vacuum system. 16 ga. aluminized steel, 4" diameter tee with black coating. Includes: (1) tube clamp, (1) hanger, (3) end caps, and (12) clips. Only the middle leg is swaged (see clamp location in picture).	10 lbs.
 <b>V-TERI</b>	V-TI package with V-RTE reflector package.	15 lbs.
 <b>V-CR</b>	Cross fitting used to join three legs of a vacuum system. 16 ga. aluminized steel, 4" diameter cross with black coating. Includes: (1) tube clamp, (1) RCS, (4) end caps, and (16) clips. Swaged on one end of the four legs. Refer to clamp location in picture.	12 lbs.
 <b>V-RCR</b>	Reflector assembly designed to cover V-CR cross fitting. Polished one side bright aluminum. Field assembled with aluminum gussets and pop rivets provided. Included are (4) center sections, (4) angle brackets, and (24) screws.	10 lbs.
<b>V-CRP</b>	V-CR package with V-RCR reflector package.	22 lbs.
 <b>HLV-PAI</b>	Powered air inlet used to bring in outside air for combustion. To be used on runs that exceed 20' but are limited to 150'. 5" intake (WIV-5 for sidewall cap), 6" exhaust adapter, and 4" supply damper are included. 265 CFM, 115 V, 50/60 Hz, auto-reset, and thermal protection.	2 lbs.

# STAINLESS STEEL TUBE & REFLECTOR PACKAGES











STAINLESS STEEL TUBE & REFLECTOR PACKAGES			
MODEL NO.	DESCRIPTION	WEIGHT	QTY.
10STP	(1) Type 304 10' x 4" S.S. tailpipe w/ alum. refl., (1) TP-220, (1) TP-19B, (1) TP-82	38 lbs.	
20STP	(2) Type 304 10' x 4" S.S. tailpipe w/ alum. refl., (2) TP-220, (2) TP-19B, (2) TP-82	76 lbs.	
30STP	(3) Type 304 10' x 4" S.S. tailpipe w/ alum. refl., (3) TP-220, (3) TP-19B, (3) TP-82	120 lbs.	
40STP	(4) Type 304 10' x 4" S.S. tailpipe w/ alum. refl., (4) TP-220, (4) TP-19B, (4) TP-82	157 lbs.	
STP-60	(1) Type 304 5' x 4" S.S. tailpipe w/ alum. refl., (1) TP-220, (1) TP-19B	22 lbs.	

**NOTE:** Observe 18" top clearance on all condensing tailpipe not covered by a reflector. Minimum 60' downstream of burner.

**NOTE:** STP packages and stainless steel accessories are not black-coated unless otherwise specified.

## STAINLESS STEEL ACCESSORIES

**NOTE:** Stainless steel tubes are not black-coated.








PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
 <b>V-D-SS</b>	16" damper used to equalize the pressure on each leg of a vacuum system. 304 grade stainless steel, 4" diameter with (1) stainless steel tube clamp. A V-D-SS must be used on each leg from the pump (except the longest) that has a 5' (or greater) length differential from any other leg in the system.	6 lbs.	 <b>V-T-SS</b>	Tee fitting used to join two legs of a vacuum system. 304 grade stainless steel, 4" diameter tee. Includes: (1) SS tube clamp, (1) SS hanger, (3) SS end caps, and (12) clips. Only the middle leg is swaged (see clamp location in picture).	11 lbs.
 <b>V-DSKIT</b>	V-D-SS (SS damper) and REF-18 (Alum. reflector) package.	10 lbs.	 <b>V-TI-SS</b>	In-line tee fitting used to join two legs of a vacuum system. 304 grade stainless steel, 4" diameter tee. Includes: (1) SS clamp, (1) SS hanger, (3) end caps, and (12) clips. Dim: 21" across top (with one end swaged) by 13". <b>NOTE:</b> The 13" middle leg is not swaged.	11 lbs.
 <b>E6-SS*</b>	304 grade stainless steel elbow. 6" radius, 90° bend, 4" diameter, 16 ga. Includes (1) stainless steel tube clamp, (1) stainless steel hanger, and (2) stainless steel reflector end caps with (8) clips.	8 lbs.	 <b>V-RTE-SS*</b>	304 grade stainless steel reflector used to cover a V-T-SS or a V-TI-SS. Used when full system is upgraded to stainless steel reflectors.	16 lbs.
 <b>RE-SS*</b>	Reflector Elbow—90° bend, 304 grade stainless steel. Used when full system is upgraded to stainless steel reflectors.	13 lbs.	 <b>V-CR-SS</b>	Cross fitting used to join three legs of a vacuum system. 304 grade stainless steel, 4" diameter cross. Includes: (1) SS tube clamp, (1) SS RCS, (4) SS end caps, and (16) clips. Swaged on one end of the four legs.	13 lbs.
 <b>45E-SS*</b>	(1) Elbow [6" radius, 45° bend, 4" diameter, 16 ga. 304 grade stainless steel], (1) SS tube clamp, (1) SS hanger, and (2) SS reflector end caps with (8) clips.	5 lbs.	 <b>V-RCR-SS*</b>	304 grade stainless steel reflector used to cover a V-CR-SS. Used when full system is upgraded to stainless steel reflectors.	18 lbs.

\* Stainless steel reflectors are typically used if the entire system has SSRAO upgrades. Otherwise, aluminum reflectors are used.

**NOTE:** If system design is to warrant use of a U-bend package, consult factory for approval.

## MISCELLANEOUS ACCESSORIES

**NOTE:** To be used on condensing systems.

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
 <b>V-CT-H</b>	Condensate trap and drain hose, used for condensate disposal on condensing systems when venting <b>horizontally</b> . Required where local codes mandate. Otherwise, this is optional.	3 lbs.	 <b>4-DSKA</b>	Cat. III SS 4" Duravent sidewall vent kit with all items for sidewall venting. Includes: SWD-4, WT-4, 24BV-4A, DHC-4A. No vent pipe material is included. 29" long fully assembled.	7 lbs.
 <b>V-CT-V</b>	Condensate trap and drain hose, used for condensate disposal on condensing systems when venting <b>vertically</b> . Required on vertical venting. Not compatible with Duravent double wall B-vent. Consult factory.	3 lbs.	 <b>RTVP-4A</b>	Cat. III SS 4" rooftop vent/intake package. Complete kit for vertical venting through the roof. Includes: RVC-4, DHC-4A, FS-4, ARF-4, SC-4, VE-4, VT-4 and RTV-106 sealant. <b>NOTE:</b> Vent and B-vent must be ordered separately.	9 lbs.
 <b>V-CN</b>	Condensate neutralization kit. Rated for systems with total heat load up to 800 MBH. Used for when condensate neutralizing is required prior to disposal. Utilizes CaCO <sub>3</sub> (calcium carbonate) as the neutralizing substance.	45 lbs.	 <b>24BV-4A</b>	Cat. III SS-lined 4" x 18" double wall B-vent. Used for penetrating through combustible wall and/or roofs. 18" long.	5 lbs.
			 <b>BVP-4A</b>	Cat. III SS-lined 4" x 60" double wall B-vent. Used for penetrating through combustible wall and/or roofs.	11 lbs.

# STAINLESS STEEL ADD-ON OPTIONS & UPGRADES

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

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
SSTAO	One needed per 10' of tube. Stainless steel tube add-on upgrades existing tube exchangers from titanium/aluminized to 304 grade stainless steel. <b>NOTE:</b> Combustion chamber will be 409 grade stainless.	2 lbs. per add-on	Stainless steel tube clamps. Upgrade standard 4" galvanized steel tube clamps to 304 grade stainless steel. Prices shown below are based on tube and reflector packs. <b>NOTE:</b> SSC-10 for use with VTR60 or V10EA tube extension packages only.		
SSRAO	One SSRAO is needed per 10' of reflector. Specifying the stainless steel reflector add-on to your order upgrades the existing aluminum reflectors to highly polished, 304 grade stainless steel reflectors.	7 lbs. per add-on	Enter quantity below		
SSTRAO	One needed per 10' of tube/reflector. Stainless steel tube and reflector add-on upgrades existing 10' tube and reflector to stainless steel.	9 lbs. per add-on	Enter quantity below		
SSRAO-5	Upgrade a 5' aluminum reflector to 304 grade stainless steel.				
SSTRAO-5	Upgrade a 5' aluminized tube and reflector to 304 grade stainless steel.				

SSC-##			
-10	-20	-30	-40

[ACTB] SSB-##			
-10	-20	-30	-40

# LIMITED WARRANTY GUIDELINES & 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
HLV	3 YEARS	5 YEARS	10 YEARS
NC7 & PB Series Pumps	1 YEAR	N/A	N/A

EXTENDED WARRANTY OPTIONS <sup>7</sup>	
CWO	Control Extended Warranty. (Max. 4 year extension). _____ per year, per heater.
VPWO	HLV Vacuum Pump Extended Warranty Option. (Max. 5 year total or 4 year extension). _____ per year, per pump.
EWO	Exchanger Extended Warranty Option. (Max. 10 year total or 5 year extension) _____ per year, per tube.

<sup>7</sup> Prior approval from the factory is required when requesting extended warranties.

# COMMONLY USED ACCESSORIES<sup>8</sup>

• 4000-01V	• RS-BR53	• THGH20
• TH-P721	• SSE	• AIRH
• TH-BR52	• THGH10	• WIV-4

<sup>8</sup> Reference the Low Intensity, Controls, and Venting Packing Lists for all available accessories.