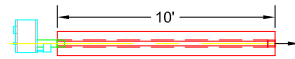


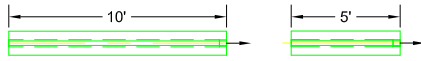
HLV Burner w/ 10' Combustion Tube



10' & 5' Emitter Tube



10' & 5' Tailpipe



Drawing Legend

*NOTE: All pipe sections, when assembled, utilize a 4" overlap at their connection points. Pipe sections may require field cuts to match exact design. When field cuts are required, remove excess material from non-swedge end.

REP = Radiant Tube Elbow + Reflector

V-TTS = (1) V-TERI + (1) V-DKIT + (1) REP

V-TERI = Vacuum In-Line Tee w/ Reflector

V-DKIT = Vacuum Damper w/ Reflector

BURNER HEAD and 10' Titanium (COMBUSTION) Tube.
Titanium Tube MUST be the first tube after the burner.

BLACK= 10' Aluminized Steel or Hot Rolled Steel

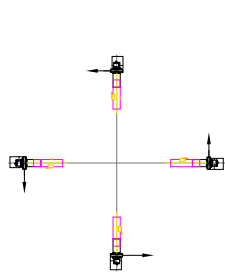
BLACK= 5' Aluminized Steel or Hot Rolled Steel

GREEN= 10' Stainless Steel Tailpipe

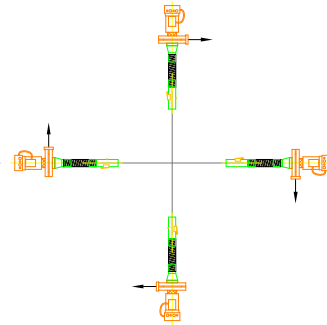
GREEN= 5' Stainless Steel Tailpipe

Vacuum Pump (includes V-D-SS and 14 isolation boot 16")

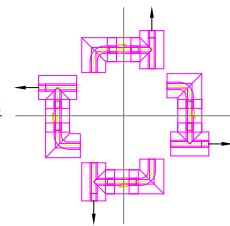
NC-7A Pump



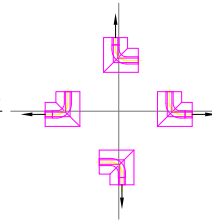
PB Series Pump



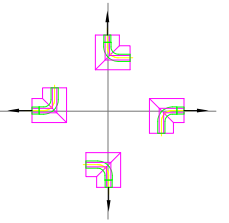
V-TERI+V-DKIT+REP=V-TTS



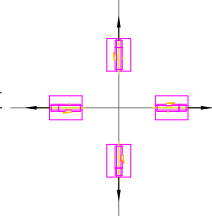
RE+E6=REP



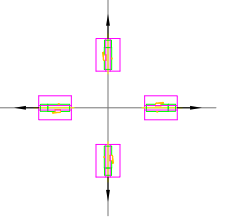
RE+E6-SS



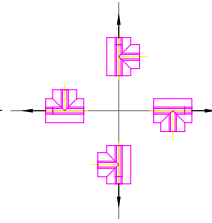
REF-18+V-D=V-DKIT



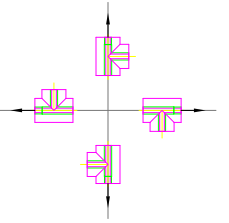
REF-18+V-D-SS = V-DSKIT



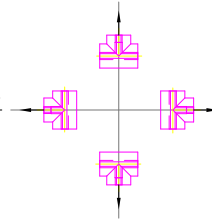
V-RTE+V-TI=V-TERI



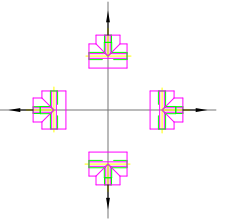
V-RTE+V-TI-SS



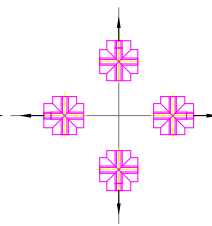
V-RTE+V-T=V-TER



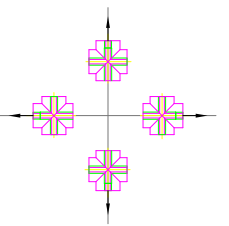
V-RTE+V-T-SS



V-RCR+V-CR=V-CRP

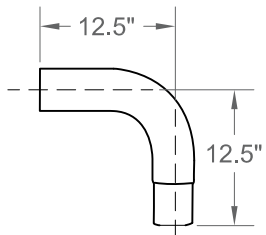
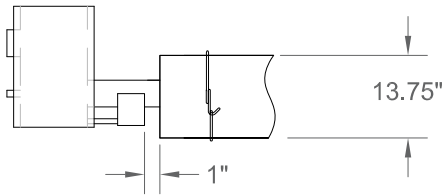
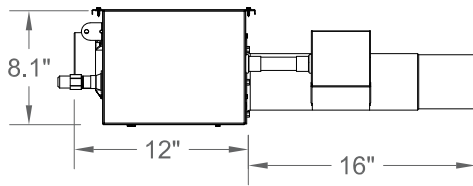
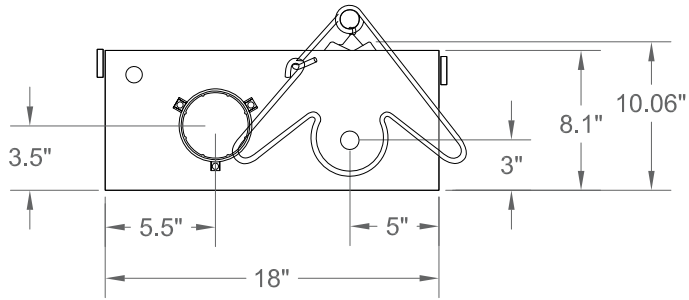


V-RCR+V-CR-SS

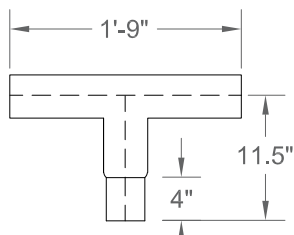


 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS:		
HLV SERIES BLOCKS - COMPONENTS		
DRAWN BY: DRP	SCALE: 1:1	PROJECT:
CHECKED BY:	DATE: MAY 2025	DRAWING NO: 1

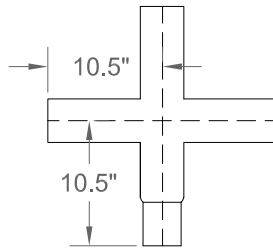
*Arrows are to represent the direction of exhaust flow, towards the vacuum exhauster.



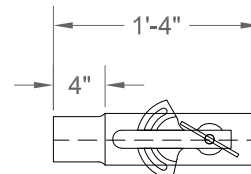
90° Elbow
(P/N: E6)



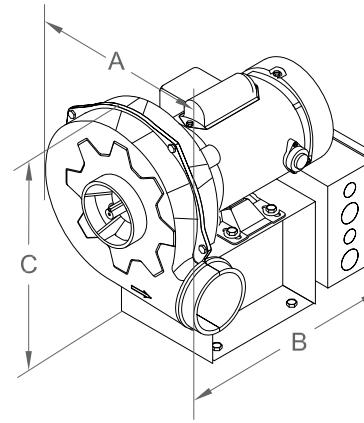
Tee
(P/N: V-T or V-TI)



Cross
(P/N: V-CR)



Damper
(P/N: V-D)



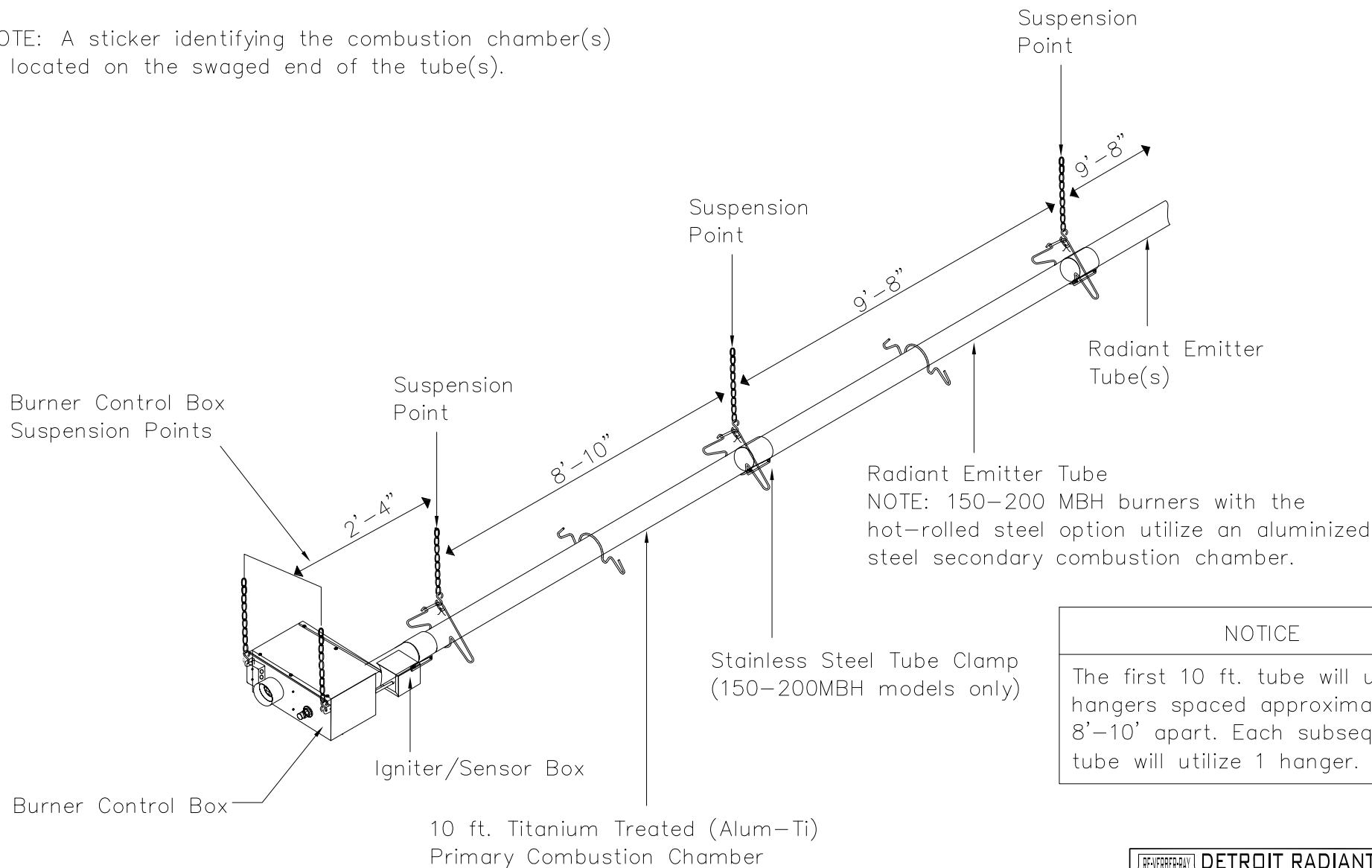
PB Series Pumps - Isometric View
NC Series Pumps - Not Shown (refer to manual)

Vacuum Pump Models

Vacuum Pump	Total System Input Range (BTU/h)	Allowable Burners per Pump	Weight	Dimensions		
				A	B	C
NC-7A	40,000 to 150,000	1 min. / 2 max.	20 lbs.	10.0"	16.0"	18.5"
PB8 Series	50,000 to 275,000	1 min. / 4 max.	60 lbs.	11.0"	19.75"	16.5"
PB9 Series	280,000 to 545,000	2 min. / 5 max.*	67 lbs.	14.5"	19.75"	16.5"
PB10 Series	550,000 to 750,000	3 min. / 6 max.*	73 lbs.	17.5"	21.0"	20.0"

 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: HLVSERIES - HEATER DIMENSIONAL DATA		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: MAY 2025	DRAWING NO: 1

NOTE: A sticker identifying the combustion chamber(s) is located on the swaged end of the tube(s).

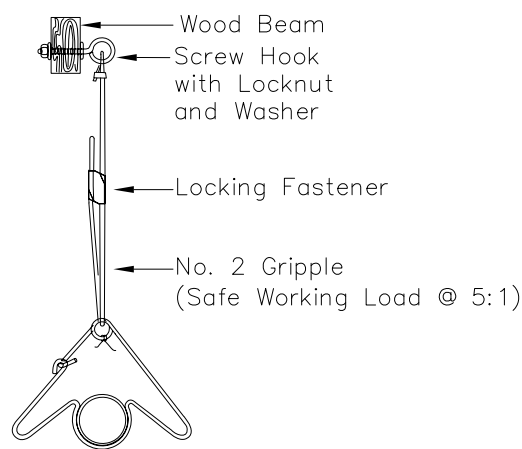
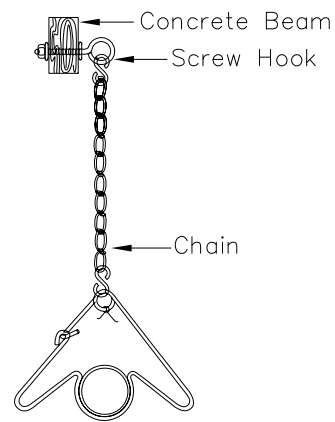
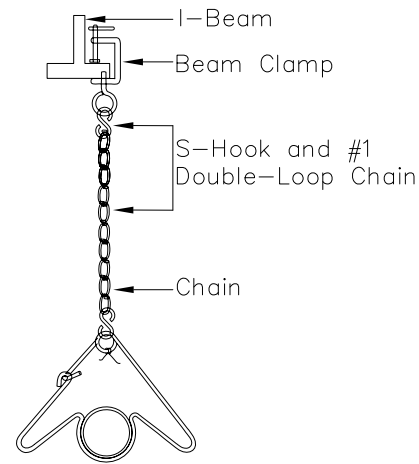
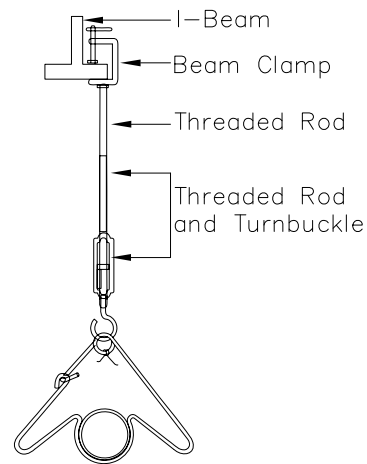


NOTICE

The first 10 ft. tube will utilize 2 hangers spaced approximately 8'-10' apart. Each subsequent tube will utilize 1 hanger.

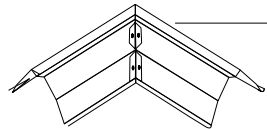
 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: HLV SERIES - HEATER MOUNTING LAYOUT DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: MAY 2025	DRAWING NO: 1

Mounting the Hangers

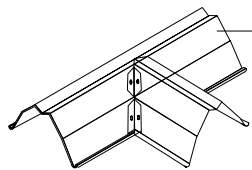


RE-VERBER-RAY DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: HEATER HANGER DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: MAY 2025	DRAWING NO: 1

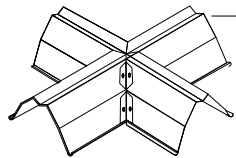
Reflector Assembly



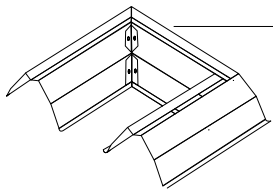
Elbow Reflector* (P/N: RE)
Highly polished reflector
used over an E6 90° elbow
accessory fitting.



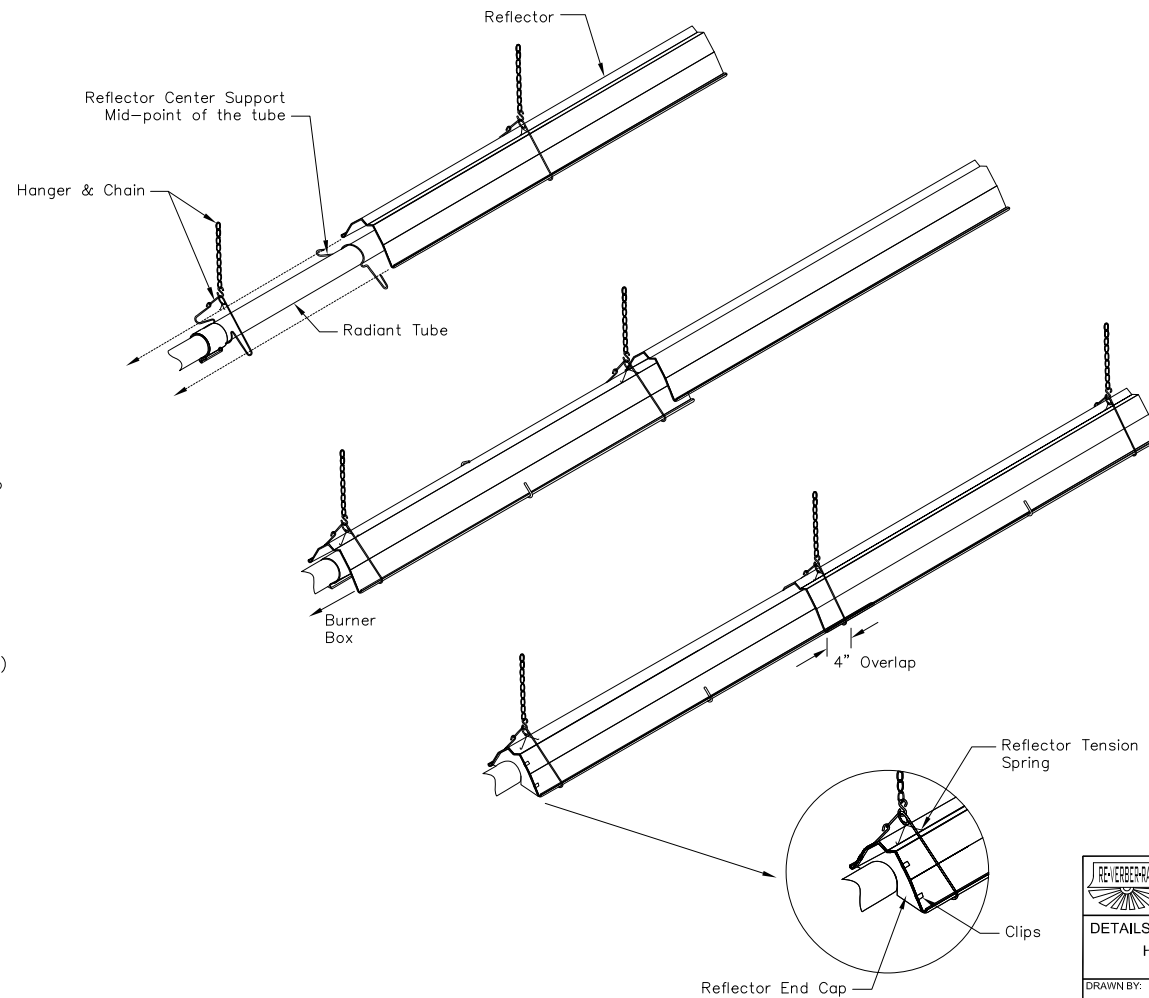
Tee Reflector* (P/N: V-RTE)
Highly polished reflector used
to cover a V-T or V-TI tee
fitting.



Cross Reflector* (P/N: V-RCR)
Highly polished reflector used
to cover a V-CR cross fitting.

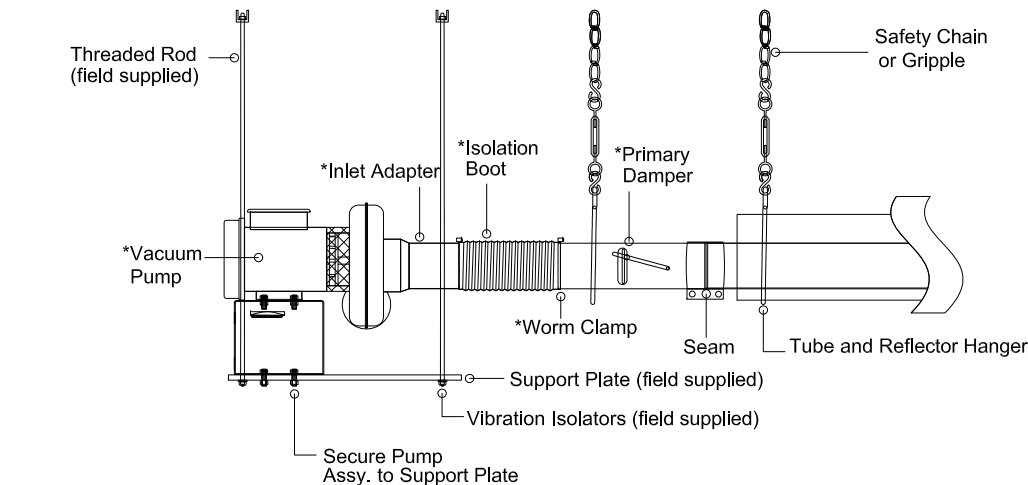


U-shaped Reflector* (P/N: RU)
Highly polished reflector used
over a 180° U-bend accessory
fitting.

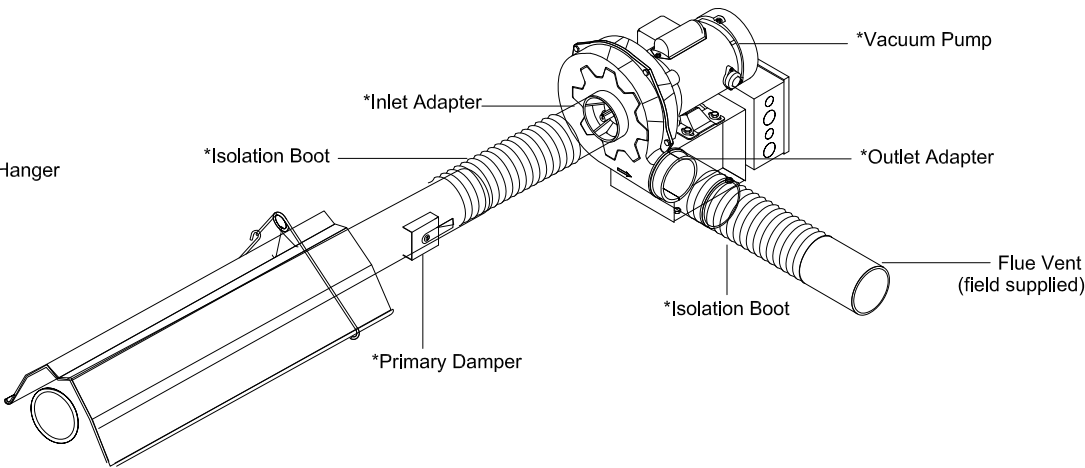


 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: HLV SERIES - REFLECTOR ASSEMBLY DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: MAY 2025	DRAWING NO: 1

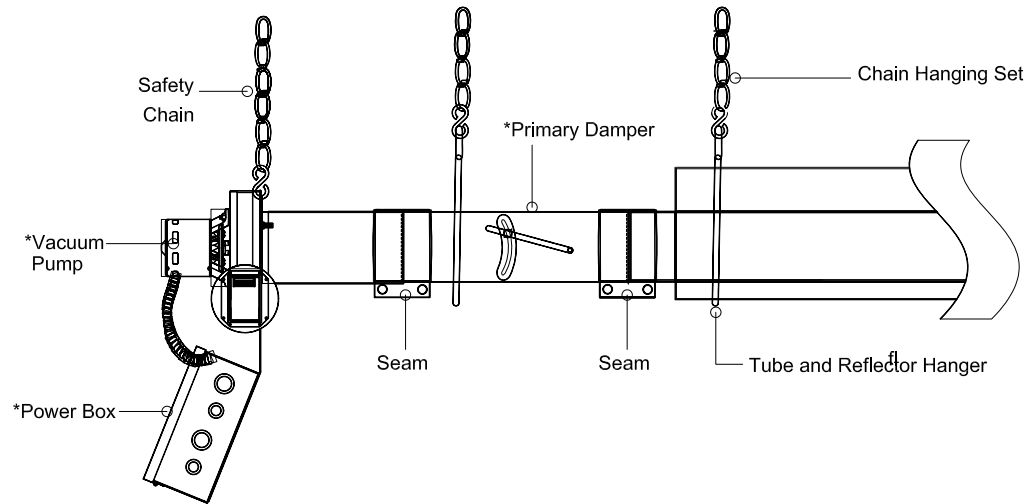
PB Series Vacuum Pump Mounting Details



Vacuum Pump Assembly



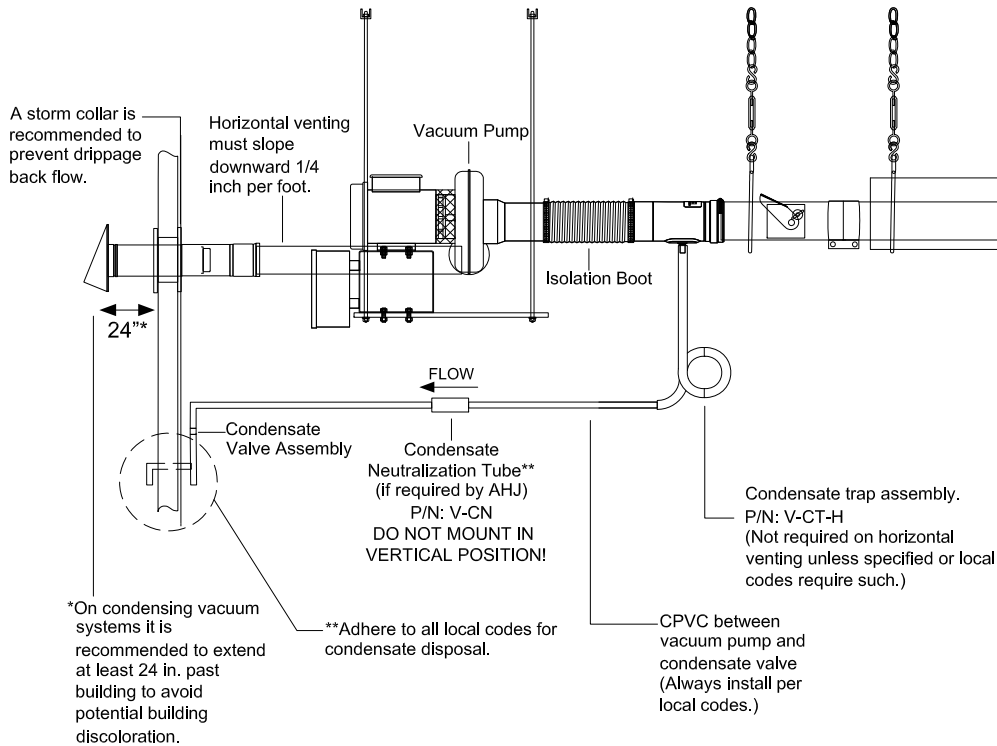
NC-7A Vacuum Pump Mounting Details



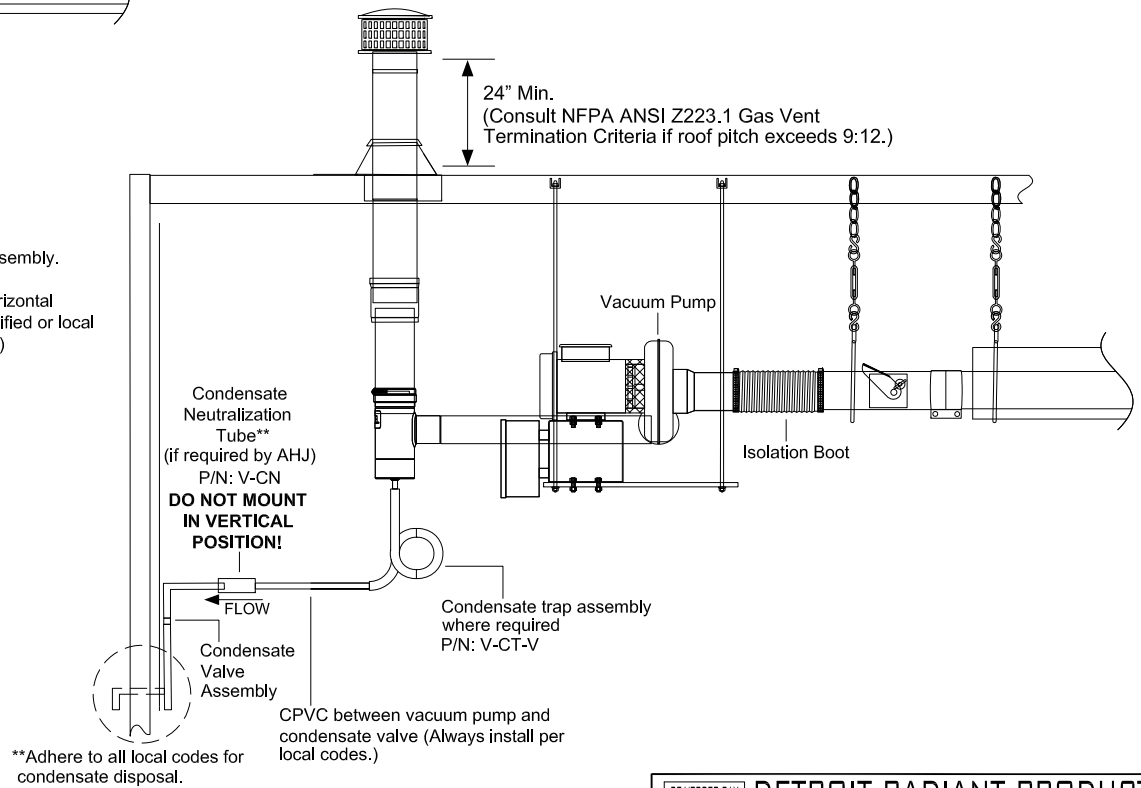
* These items are included with the initial vacuum pump purchase.

REVERBER-RAY DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: HLV SERIES - PUMP ASSEMBLY DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: MAY 2025	DRAWING NO: 1

Horizontal Flue Venting (Preferred)

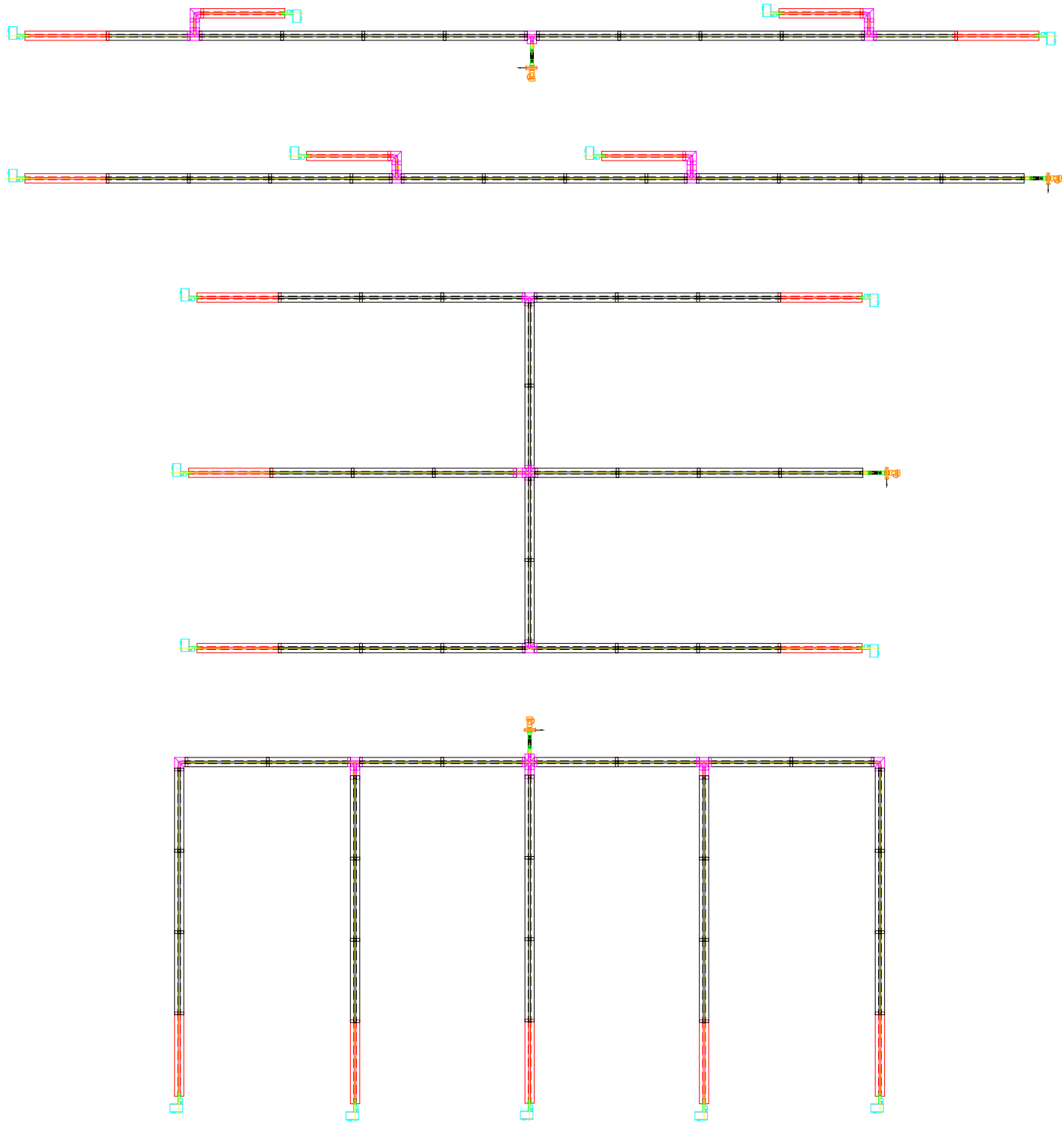


Vertical Flue Venting



 DETROIT RADIANT PRODUCTS 21400 HOOVER RD WARREN, MI 48089		
DETAILS: HLV SERIES - VENTING DETAILS		
DRAWN BY: DRP	SCALE: NTS	PROJECT:
CHECKED BY:	DATE: MAY 2025	DRAWING NO: 1

** For specific installation instructions, refer to the condensate neutralization kit manufacturer's installation guide.



*Designs should adhere to the parameters as set forth in the HLV IOFM specific to BTU heaters selected.

DETROIT RADIANT PRODUCTS			
21400 HODDYER RD. WARREN, MI 48099			
DETAILS			
HLV SERIES - SAMPLE LAYOUTS			
DESIGNED BY	DRP	DATE	01/21
ENGINEERED BY	DRP	DATE	01/21
		PROJECT	WARREN MI 1
		DATE	01/21/2025