

# VERSA-LINE

## Submittal

TRV Trough  
Versa-Line  
Copper/Aluminum and  
Steel Elements

TRV Trough Installation

# Specification

**TROUGH ENCLOSURE:**

- STYLE: Flat Plate  
 OUTLET: Stamped Louver  
 Pencil Proof
- LENGTHS: 2' thru 8' in 6" Increments  
 MAT'L:  16 Ga. CRS STD.  
 14 Ga. CRS (Opt'l)  
 FINISH:  Baked Enamel Std.  
 16 Ga. Stainless Steel (Opt'l)  
 14 Ga. Stainless Steel (Opt'l)

**ELEMENT:**

- TYPE:  Cu/Al (Mechanically Expanded)  
 LENGTHS: 2'0" thru 12'6" in 1" Increments for 1" & 1-1/4" Cu.  
 2' thru 8' in 1" Increments for 3/4" Cu.
- One End Flared, Std.
- TYPE:  IPS Steel (Mechanically Expanded)  
 LENGTHS: 2'0" thru 12'6" in 1" Increments  
 NPT Thread both Ends Std.  
 Beveled Ends for Field Weld  
 See Catalog for Working Pressures

**LINER:**

- LENGTHS: 2' thru 8' in 6" Increments  
 No Liner Required  
 MAT'L:  20 Ga. Galvannealed (Opt'l.)  
 18 Ga. CRS Painted Black (Opt'l)

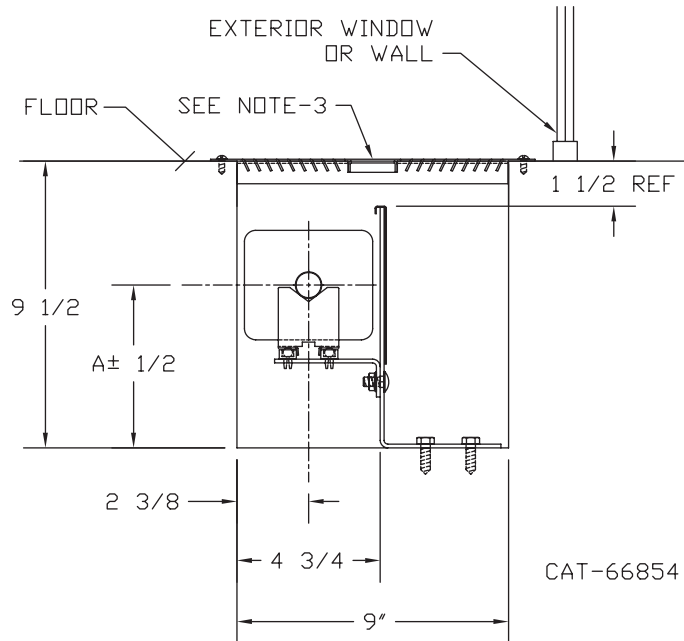
**BRACKETS:**

- Pedestal Brk't w/ B.B.  
 Floor Mounted

TRV

ELEMENT	TUBE/FIN MATERIAL	TUBE SIZE	FIN SIZE	FIN THK.	FINS/ FOOT	CRADLE NO	A
C3/4 435	CU/AL	3/4	4-1/4 x 3-5/8	.020	50	2	5-3/8
C45	CU/AL	1"	4-1/4 x 4-1/4	.020	50	2	5-9/16
C145	CU/AL	1-1/4	4-1/4 x 4-1/4	.020	50	2	5-11/16
S144-032	STL/STL	1-1/4	4-1/4 x 4-1/4	.020	40	2	4-7/8
S243-032	STL/STL	2"	4-1/4 x 4-1/4	.020	32	1	4-5/8

- Notes: 1) Shown with C3/4-435 element.  
 2) Trough liner optional (not shown).  
 3) Louvered grille by others, consult factory for availability.



**STERLING**  
 COMMERCIAL HYDRONIC PRODUCTS  
 260 North Elm St., Westfield, MA 01085  
 (413) 564-5535 Fax: (413) 562-8437  
 www.sterlingheat.com

PROJECT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ARCHITECT: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_  
 PO NUMBER: \_\_\_\_\_

# STYLE "TR" TROUGH VERSA-LINE

## COPPER/ALUMINUM ELEMENT RATINGS

TUBE SIZE	CATALOG DESIGNATION	FIN SIZE	FIN PER FT.	FIN THICKNESS	TROUGH DEPTH AND HEIGHT IN INCHES	NUMBER OF ELEMENTS	ENTERING AIR TEMP F°	STEAM 215° FACTOR 1.00	HOT WATER (AVG.)					
									200°	190°	180°	170°	160°	150°
									FACTOR					
									.86	.78	.69	.61	.53	.45
3/4"	C3/4-433	4-1/4" x 3-5/8"	32	.020"	9-1/2 x 9	1	47°	1090	940	860	760	670	580	500
	C3/4-434		40	"	"	1	47°	1230	1060	960	850	760	660	560
	C3/4-435		50	"	"	1	47°	1330	1150	1040	920	820	710	600
1"	C433	4-1/4" x 3-5/8"	32	.020"	9-1/2 x 9	1	47°	1130	980	890	780	690	600	510
			40	"	"	1	47°	1270	1100	1000	880	780	680	580
			50	"	"	1	47°	1390	1200	1090	960	850	740	630
1-1/4"	C1433	4-1/4" x 3-5/8"	32	.020"	9-1/2 x 9	1	47°	1110	960	870	770	680	590	500
	C1434		40	"	"	1	47°	1250	1080	980	870	770	670	570
	C1435		50	"	"	1	47°	1370	1180	1070	950	840	730	620
1"	C43	4-1/4" x 4-1/4"	32	.020"	9-1/2 x 9	1	47°	1240	1070	970	860	760	660	560
	C44		40	"	"	1	47°	1410	1220	1100	980	870	750	640
	C45		50	"	"	1	47°	1450	1250	1140	1010	890	770	660
1-1/4"	C143	4-1/4" x 4-1/4"	32	.020"	9-1/2 x 9	1	47°	1220	1050	960	850	750	650	550
	C144		40	"	"	1	47°	1380	1190	1080	960	850	740	630
	C145		50	"	"	1	47°	1420	1230	1110	980	870	760	640

- Notes: 1) Ratings are based on 24 sq. in. of free are per linear foot of air inlet and outlet each.  
 2) To determine ratings with 65°F Entering Air Temperature, select the appropriate rating from the chart above and divide by 1.20.  
 3) For systems using steam, consult factory.

## STEEL ELEMENT RATINGS†

I.P.S. SIZE	CATALOG DESIGNATION	FIN SIZE	FIN PER FT.	FIN THICKNESS	TROUGH DEPTH AND HEIGHT IN INCHES	NUMBER OF ELEMENTS	ENTERING AIR TEMP F°	STEAM 215° FACTOR 1.00	HOT WATER (AVG.)					
									200°	190°	180°	170°	160°	150°
									FACTOR					
									.86	.78	.69	.61	.53	.45
1-1/4"	S143	4-1/4" x 4-1/4"	32	.032"	9-1/2 x 9	1	47°	1090	940	860	760	670	580	500
	S144		40	"	"	1	47°	1230	1060	960	850	760	660	560
2"	S242	4-1/4" x 3-5/8"	25	.032"	9-1/2 x 9	1	47°	950	820	750	660	580	510	430
	S243		32	"	"	1	47°	1100	950	860	760	680	590	500

- Notes: 1) Ratings are based on 24 sq. in. of free are per linear foot of air inlet and outlet each.  
 2) To determine ratings with 65°F Entering Air Temperature, select the appropriate rating from the chart above and divide by 1.20.  
 3) For systems using steam, consult factory.