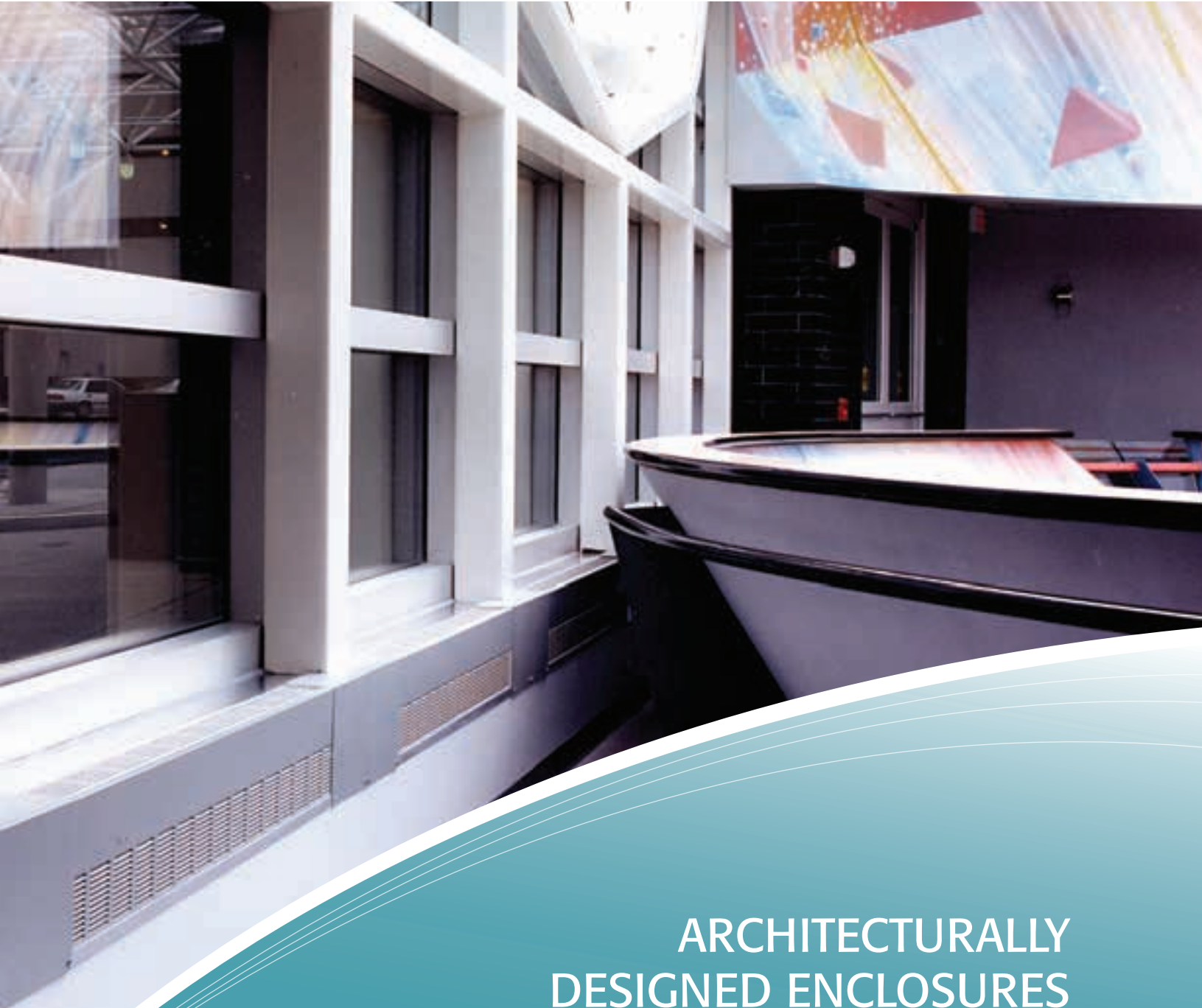


CLASSIC



ARCHITECTURALLY
DESIGNED ENCLOSURES

Vulcan
RADIATOR



CLASSIC ARCHITECTURALLY STYLED

ENCLOSURES

Classic Architecturally Styled Enclosures have a clean, crisp classic look. The streamlined anodized aluminum grilles help make Classic the ideal choice for modern office buildings, banks, executive offices, luxury hotels – wherever enclosures are intended to enhance a building's interior statement.

Standard Classic Enclosures, with internally telescoping accessories for dramatic shadow effect, offer architects and engineers uninhibited design opportunities.

“J” Style Classic Enclosures provide an interlocking, slip-jointed construction that incorporates overlapping accessories to facilitate layout adjustments for variations of final building construction.

All Vulcan commercial hydronic products are made from recycled materials. Material recycled contents can be obtained from your local Vulcan representative.

DESIGN ADVANTAGE

Standard Classic Architectural Enclosures

- Enhances architectural style and design.
- Clean crisp designs with accenting extruded aluminum grilles in clear anodized or baked powder finish.
- Enclosure designs allow modular/sectional installation.
- Enclosure is easily removed without disrupting adjoining accessories or enclosures.
- Enclosures can be installed inverted on a high wall allowing the anodized grille to be seen at the bottom.
- Enclosure and accessories are interchangeable with Linovector II utilizing same backplates and brackets.
- All accessories underlap the enclosure and telescope within, providing unlimited balancing and make-up in any enclosure run.
- Utilizing a backplate support, the enclosure can be easily installed on window mullions, providing a finished enclosure inside and out.
- Enclosure can be provided in heavy gauge steel or aluminum.



“J” Classic Slip-Jointed Architectural Enclosures

- Maintains the quality lines of the Architectural style enclosure.
- Enclosure features the Classic extruded aluminum grille in clear anodized or baked powder finish.
- Sturdy 14 gauge internal gussets ensure the strength and durability of the grille and enclosure.
- Vertical internal reinforcing stiffeners provide structural integrity and an interlocking feature with the adjoining enclosure.
- Enclosure can be installed on Linovector II backplates and brackets as well.
- All accessories overlap the enclosure and are made with 90 degree formed edges to increase strength and rigidity.
- Enclosure can be provided in 14 gauge cold rolled steel, aluminum or stainless steel.
- Enclosure and accessories are available in standard baked powder decorator colors or custom colors selected by the customer.



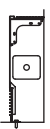







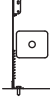


CLASSIC ENCLOSURE STYLES, HEIGHTS AND DEPTHS

CONTENTS:

The standard Classic Enclosure and "J" Classic Enclosure have similar enclosure heights, depths and lengths. The designations for the depths are listed as "2" ($3^{9/16}$), "3" ($4^{3/8}$) and "4" ($5^{5/16}$). All styles can be installed with either partial or full backplate. Standard brackets with bracket mounted hangers or water brackets are available for either the standard wiped edge or "J" slip-jointed enclosures. In situations where standard wiped edge Classic Enclosures have to be field cut, the "J" Classic overlapping accessories can be used to cover the area which has been altered. Consult factory for enclosure heights not shown.

SPECIFICATIONS:

| STYLE | DESIGN | PG. | STYLE | DESIGN | PG. | STYLE | DESIGN | PG. |
|--------------------------|---|-----|----------------------------|---|-----|---------------------------|---|-----|
| JV2 V2 11 |  | 4 | JV3 JV4 ARS |  | 12 | JV3 JV4 V4 V3 EI |  | 27 |
| JV3 JV4 V4 V3 7 |  | 5 | JV4 ARDS |  | 18 | JV4 V4 PM |  | 30 |
| JV3 V3 14 |  | 7 | J3 JV4 V4 V3 10LI |  | 22 | TR |  | 37 |
| JV4 V4 |  | 8 | JV3 JV4 V4 V3 LI |  | 24 | B/P SUPT | | 38 |
| | | | | | | PIPE ENCL | | 39 |

ENCLOSURE Classic Architectural.

Types Standard Classic Wiped Edge
"J" Classic Slip-Jointed.

Styles Wall Mounted, Floor Mounted,
Pedestal Mounted, Top
Discharge, Extruded Aluminum
Grille.

Offsets "4" = $5 \frac{5}{16}$, "3" = $4 \frac{3}{8}$, "2" = $3 \frac{9}{16}$

Heights 7", 11", 14", 20", 24" nominal.

Lengths 2' thru 8' in 6" increments.
Consult factory for special lengths.

Materials CRS 16 gauge standard, 14
optional; Aluminum 14 gauge,
12 gauge available; Stainless
Steel 16 or 14-gauge in "J" Style
only.

Finish Baked powder finish.

Colors 9 standard colors, 3 metallic colors.
Consult factory for custom color
matches.

ELEMENTS

Types Mechanically expanded.
Copper tube aluminum fin, steel tube
steel fin.

Lengths 2' thru 12'6" in 1", 1 1/4" CU/AL and
1", 1 1/4", 2" steel element. 2' thru 8'
on 3/4" CU/ALUM element, all in 1"
increments.

End Conditions Note: Elements VR01 thru VR10
available in 12" increments.
CU/AL - Swaged one end. Swaged
both ends optional.
Steel - NPT threads standard.
Chamfered for field welding optional.

BRACKETS/ HANGERS

Ball bearing with slide cradle
adjustable for pitch or fixed for water
systems. Die-formed channel type
galvanized steel construction with
enclosure securing posi-lock clips.

DAMPERS

Fully modulating damper blades with
lateral stiffening bends or rolls
operated by dial or concealed key
operators (slide damper available in
"4" offset enclosures).

BACKPLATES

Type Partial standard, full height
optional.

Lengths Partial 8' only.
Full 2' thru 8' in 6" increments.

Materials Partial 20 gauge, pre-painted
standard; 18 gauge
galvanized optional. Full 20
gauge galvanized, 18 gauge
galvanized optional.
Consult factory for painted finish.

ACCESSORIES

Standard Classic accessories will
telescope internally inside the
enclosure. "J" style Classic
accessories will overlap the
enclosure. All accessories will
engage between the top of the
backplate and the wall, while the
bottom will return to the wall and be
secured, utilizing the prepunched
clearance holes for fasteners by
others.

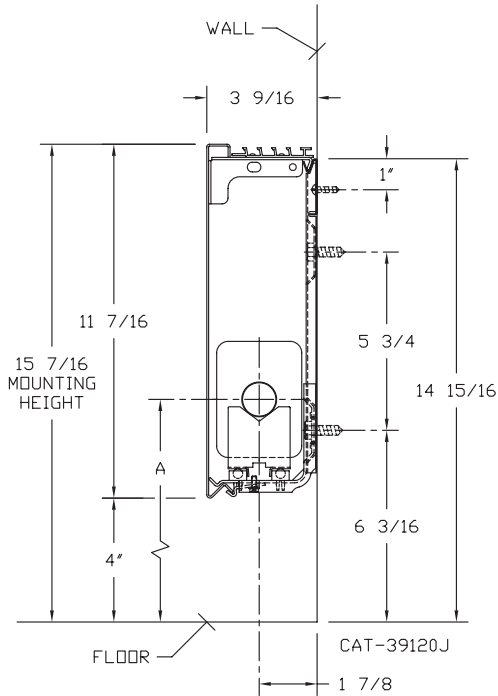
ELEMENT RATINGS

Ratings are in BTU per hour, per
linear foot of active fin length.
Active length is catalog length
minus 4" for Copper, 5" for Steel.

AIR SEAL

Optional air seal, factory or field
installed, on back of backplate.
Material is 1/8" x 3/8" closed cell with
adhesive back.

STYLES V2 AND JV2 "AR" CLASSIC SLIMLINE



Styles

V2-AR 11 and JV2-AR 11
(Specify when used with steam, wall mounted brackets or adjustable rod hangers may be required.)

Accessories

V2 – Underlapping Reveal Type
JV2 – Overlapping Type

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|----------|
| 3/4" COPPER | 2 1/2" x 2 1/4" | 1 | 6 5/16 |
| 3/4" COPPER | 2 1/2" x 2 3/4" | 1 | 7" |
| 3/4" COPPER | 3 3/4" x 2 3/4" | 2 | 7 1/2" |
| 1" COPPER | 2 1/2" x 2 3/4" | 1 | 6 1/2" |
| 1" COPPER | 3 3/4" x 2 3/4" | 2 | 7 3/16" |
| 1" COPPER | 5" x 2 3/4" | 3A | 7 1/2" |
| 1 1/4" COPPER | 3 3/4" x 2 3/4" | 2 | 7 5/16" |
| 1 1/4" COPPER | 5" x 2 3/4" | 3A | 7 11/16" |
| 1" STEEL | 3 3/4" x 2 3/4" | 2 | 7 5/16" |
| 1" STEEL | 5" x 2 3/4" | 3A | 7 11/16" |
| 1 1/4" STEEL | 3 3/4" x 2 3/4" | 2 | 7 1/2" |
| 1 1/4" STEEL | 5" x 2 3/4" | 3A | 7 15/16" |

STYLES V2-AR11 AND JV2-AR11

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

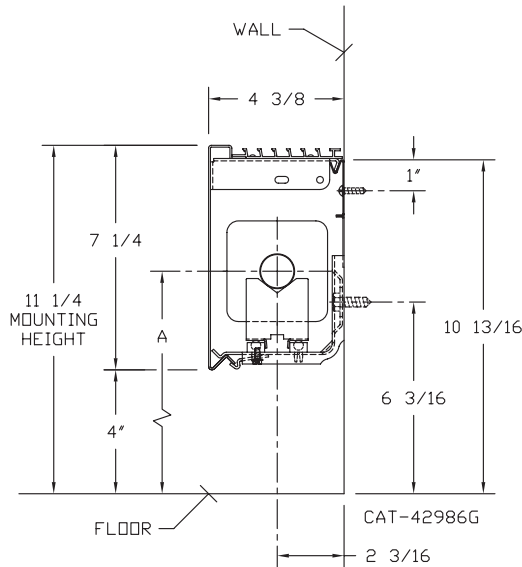
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL DEPTH AND HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|---------------------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 3/4" | VR01 | 2-1/2" x 2-1/4" | 50 | .011 | 11K | 1 | 15-7/16 | 780 | 670 | 610 | 540 | 480 | 410 | 350 | 310 | 260 | 200 |
| 3/4" | VR02 | 2-1/2" x 2-3/4" | 60 | .010 | 11K | 1 | 15-7/16 | 1030 | 890 | 800 | 710 | 630 | 550 | 460 | 410 | 340 | 270 |
| 1" | VR03 | 2-1/2" x 2-3/4" | 55 | .011 | 11K | 1 | 15-7/16 | 1000 | 860 | 780 | 690 | 610 | 530 | 450 | 400 | 330 | 260 |
| 3/4" | VR04 | 3-3/4" x 2-3/4" | 50 | .014 | 11K | 1 | 15-7/16 | 1060 | 910 | 830 | 730 | 650 | 560 | 480 | 420 | 350 | 280 |
| 1" | VR05 | 3-3/4" x 2-3/4" | 50 | .011 | 11K | 1 | 15-7/16 | 1010 | 870 | 790 | 700 | 620 | 540 | 450 | 400 | 330 | 260 |
| 1-1/4" | VR08 | 3-3/4" x 2-3/4" | 50 | .020 | 11K | 1 | 15-7/16 | 1140 | 980 | 890 | 790 | 700 | 600 | 510 | 460 | 380 | 300 |
| 1" | VR07 | 5" x 2-3/4" | 50 | .020 | 11K | 1 | 15-7/16 | 1170 | 1010 | 910 | 810 | 710 | 620 | 530 | 470 | 390 | 300 |
| 1-1/4" | VR10 | 5" x 2-3/4" | 50 | .020 | 11K | 1 | 15-7/16 | 1140 | 980 | 890 | 790 | 700 | 600 | 510 | 460 | 380 | 300 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

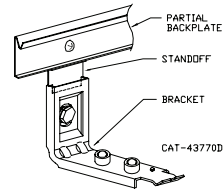
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL DEPTH AND HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|---------------------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 1" | VR11 | 3-3/4" x 2-3/4" | 40 | .024 | 11K | 1 | 15-7/16 | 760 | 650 | 590 | 520 | 460 | 400 | 340 | 300 | 250 | 200 |
| 1" | VR15 | 5" x 2-3/4" | 50 | .024 | 11K | 1 | 15-7/16 | 930 | 800 | 730 | 640 | 570 | 490 | 420 | 370 | 310 | 240 |
| 1-1/4" | VR16 | 5" x 2-3/4" | 50 | .024 | 11K | 1 | 15-7/16 | 900 | 770 | 700 | 620 | 550 | 480 | 410 | 360 | 300 | 230 |

STYLES V3 AND JV3 "AR" CLASSIC LOW PROFILE



Styles V3-AR-7 JV3-AR-7

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|---------|
| 3/4" COPPER | 3 1/4 x 3 1/4 | 2 | 7" |
| 1" COPPER | 3 1/4 x 3 1/4 | 2 | 7 3/16 |
| 1 1/4" COPPER | 3 1/4 x 3 1/4 | 1 | 6 5/8 |
| 1" STEEL | 3 1/4 x 3 1/4 | 2 | 7 5/16 |
| 1 1/4" STEEL | 3 1/4 x 3 1/4 | 1 | 6 13/16 |



Accessories

V3, V4 – Underlapping Reveal Type
JV3, JV4 – Overlapping Type

Designed for use exclusively with hot water systems in buildings with window sill conditions low to the floor.

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

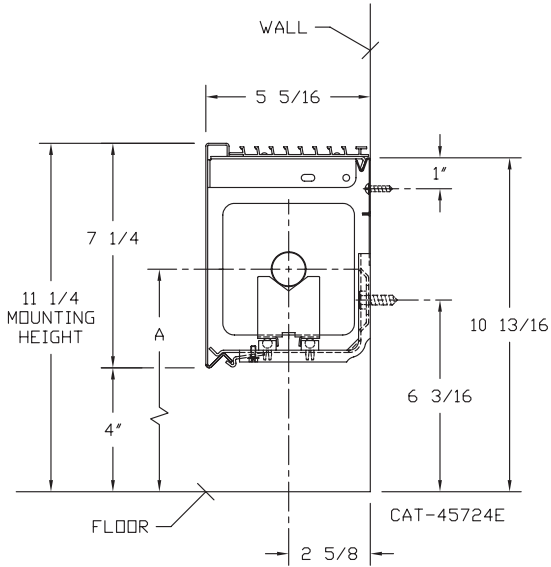
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-33 | 3-1/4" SQ. | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 820 | 710 | 640 | 570 | 500 | 430 | 370 | 330 | 270 | 210 | |
| 3/4" | VC3/4-34 | 3-1/4" SQ. | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 1000 | 860 | 780 | 690 | 610 | 530 | 450 | 400 | 330 | 260 | |
| 3/4" | VC3/4-35 | 3-1/4" SQ. | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 1010 | 870 | 790 | 700 | 620 | 540 | 450 | 400 | 330 | 260 | |
| 1" | VC33 | 3-1/4" SQ. | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 840 | 720 | 660 | 580 | 510 | 450 | 380 | 340 | 280 | 220 | |
| 1" | VC34 | 3-1/4" SQ. | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 970 | 830 | 760 | 670 | 590 | 510 | 440 | 390 | 320 | 250 | |
| 1" | VC35 | 3-1/4" SQ. | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 980 | 840 | 760 | 680 | 600 | 520 | 440 | 390 | 320 | 250 | |
| 1 1/4" | VC133 | 3-1/4" SQ. | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 810 | 700 | 630 | 560 | 490 | 430 | 360 | 320 | 270 | 210 | |
| 1 1/4" | VC134 | 3-1/4" SQ. | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 930 | 800 | 730 | 640 | 570 | 490 | 420 | 370 | 310 | 240 | |
| 1 1/4" | VC135 | 3-1/4" SQ. | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 940 | 810 | 730 | 650 | 570 | 500 | 420 | 380 | 310 | 240 | |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

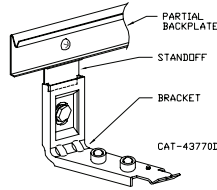
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS33 | 3-1/4" SQ. | 32 | .032 | 7-1/4 | 1 | 11-1/4 | 780 | 670 | 610 | 540 | 480 | 410 | 350 | 310 | 260 | 200 | |
| 1" | VS34 | 3-1/4" SQ. | 40 | .032 | 7-1/4 | 1 | 11-1/4 | 860 | 740 | 670 | 590 | 520 | 460 | 390 | 340 | 280 | 220 | |
| 1" | VS35 | 3-1/4" SQ. | 50 | .032 | 7-1/4 | 1 | 11-1/4 | 900 | 770 | 700 | 620 | 550 | 480 | 410 | 360 | 300 | 230 | |
| 1-1/4" | VS133 | 3-1/4" SQ. | 32 | .032 | 7-1/4 | 1 | 11-1/4 | 770 | 660 | 600 | 530 | 470 | 410 | 350 | 310 | 250 | 200 | |
| 1-1/4" | VS134 | 3-1/4" SQ. | 40 | .032 | 7-1/4 | 1 | 11-1/4 | 870 | 750 | 680 | 600 | 530 | 460 | 390 | 350 | 290 | 230 | |
| 1-1/4" | VS135 | 3-1/4" SQ. | 50 | .032 | 7-1/4 | 1 | 11-1/4 | 885 | 760 | 690 | 610 | 540 | 470 | 400 | 350 | 290 | 230 | |

STYLES V4 JV4 "AR" CLASSIC LOW PROFILE



Styles V4-AR-7 JV4-AR-7

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|---------|
| 3/4" COPPER | 3 5/8 x 4 1/4 | 2 | 7" |
| 3/4" COPPER | 4 1/4 x 4 1/4 | 3A | 7 3/8" |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | 7 3/16" |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | 7 3/16" |
| 1 1/4" COPPER | 3 5/8 x 4 1/4 | 2 | 7 5/16" |
| 1 1/4" COPPER | 4 1/4 x 4 1/4 | 2 | 7 5/16" |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | 7 5/16" |
| 1 1/4" STEEL | 4 1/4 x 4 1/4 | 2 | 7 1/2" |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | 7 1/4" |



Accessories V3, V4 – Underlapping Reveal Type JV3, JV4 – Overlapping Type

Designed for use exclusively with hot water systems in buildings with window sill conditions low to the floor.

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

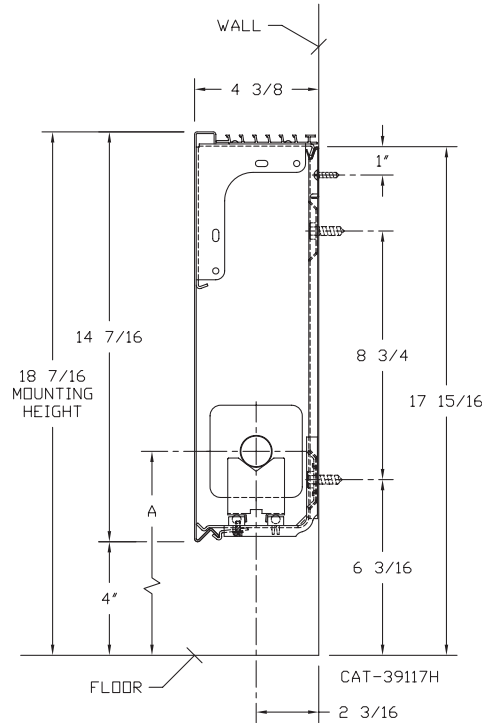
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 1065 | 920 | 830 | 730 | 650 | 560 | 480 | 430 | 350 | 280 |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 1240 | 1070 | 970 | 860 | 760 | 660 | 560 | 500 | 410 | 320 |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 1150 | 990 | 900 | 790 | 700 | 610 | 520 | 460 | 380 | 300 |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 1260 | 1080 | 980 | 870 | 770 | 670 | 570 | 500 | 420 | 330 |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 1120 | 960 | 870 | 770 | 680 | 590 | 500 | 450 | 370 | 290 |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 1240 | 1070 | 970 | 860 | 760 | 660 | 560 | 500 | 410 | 320 |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 1250 | 1080 | 980 | 860 | 760 | 660 | 560 | 500 | 410 | 330 |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 1260 | 1080 | 980 | 870 | 770 | 670 | 570 | 500 | 420 | 330 |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 1390 | 1200 | 1080 | 960 | 850 | 740 | 630 | 560 | 460 | 360 |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 1410 | 1210 | 1100 | 970 | 860 | 750 | 630 | 560 | 470 | 370 |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 7-1/4 | 1 | 11-1/4 | 1230 | 1060 | 960 | 850 | 750 | 650 | 550 | 490 | 410 | 320 |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 7-1/4 | 1 | 11-1/4 | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 7-1/4 | 1 | 11-1/4 | 1390 | 1200 | 1080 | 960 | 850 | 740 | 630 | 560 | 460 | 360 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 7-1/4 | 1 | 11-1/4 | 1100 | 950 | 860 | 760 | 670 | 580 | 500 | 440 | 360 | 290 |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 7-1/4 | 1 | 11-1/4 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 7-1/4 | 1 | 11-1/4 | 1295 | 1110 | 1010 | 890 | 790 | 690 | 580 | 520 | 430 | 340 |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 7-1/4 | 1 | 11-1/4 | 1010 | 870 | 790 | 700 | 620 | 540 | 450 | 400 | 330 | 260 |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 7-1/4 | 1 | 11-1/4 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 7-1/4 | 1 | 11-1/4 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 7-1/4 | 1 | 11-1/4 | 950 | 820 | 740 | 660 | 580 | 500 | 430 | 380 | 310 | 250 |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 7-1/4 | 1 | 11-1/4 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |

STYLES V3 AND JV3 "AR" CLASSIC



Styles

V3-AR14 and JV3-AR14

Accessories

V3 – Underlapping Reveal Type
JV3 – Overlapping Type

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|----------|
| 3/4" COPPER | 3 1/4 x 3 1/4 | 2 | 7" |
| 1" COPPER | 3 1/4 x 3 1/4 | 2 | 7 3/16" |
| 1 1/4" COPPER | 3 1/4 x 3 1/4 | 1 | 6 5/8" |
| 1" STEEL | 3 1/4 x 3 1/4 | 2 | 7 5/16" |
| 1 1/4" STEEL | 3 1/4 x 3 1/4 | 1 | 6 13/16" |

STYLES V3-AR14 AND JV3-AR14

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 3/4" | VC3/4-33 | 3-1/4" SQ. | 32 | .020 | 14 | 1 | 18-7/16 | 1050 | 900 | 820 | 720 | 640 | 560 | 470 | 420 | 350 | 270 |
| 3/4" | VC3/4-34 | 3-1/4" SQ. | 40 | .020 | 14 | 1 | 18-7/16 | 1230 | 1060 | 960 | 850 | 750 | 650 | 550 | 490 | 410 | 320 |
| 3/4" | VC3/4-35 | 3-1/4" SQ. | 50 | .020 | 14 | 1 | 18-7/16 | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 |
| 1" | VC33 | 3-1/4" SQ. | 32 | .020 | 14 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| 1" | VC34 | 3-1/4" SQ. | 40 | .020 | 14 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| 1" | VC35 | 3-1/4" SQ. | 50 | .020 | 14 | 1 | 18-7/16 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |
| 1 1/4" | VC133 | 3-1/4" SQ. | 32 | .020 | 14 | 1 | 18-7/16 | 960 | 830 | 750 | 660 | 590 | 510 | 430 | 380 | 320 | 250 |
| 1 1/4" | VC134 | 3-1/4" SQ. | 40 | .020 | 14 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| 1 1/4" | VC135 | 3-1/4" SQ. | 50 | .020 | 14 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

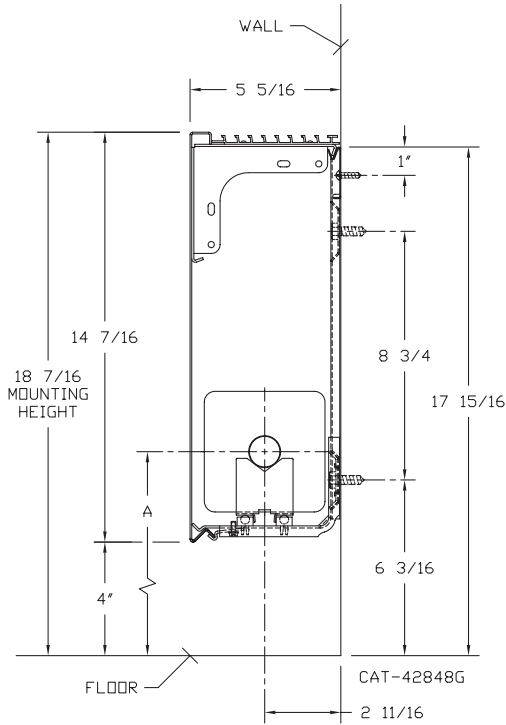
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 1" | VS33 | 3-1/4" SQ. | 32 | .032 | 14 | 1 | 18-7/16 | 880 | 760 | 690 | 610 | 540 | 470 | 400 | 350 | 290 | 230 |
| 1" | VS34 | 3-1/4" SQ. | 40 | .032 | 14 | 1 | 18-7/16 | 970 | 830 | 760 | 670 | 590 | 510 | 440 | 390 | 320 | 250 |
| 1" | VS35 | 3-1/4" SQ. | 50 | .032 | 14 | 1 | 18-7/16 | 1040 | 890 | 810 | 720 | 630 | 550 | 470 | 420 | 340 | 270 |
| 1-1/4" | VS133 | 3-1/4" SQ. | 32 | .032 | 14 | 1 | 18-7/16 | 870 | 750 | 680 | 600 | 530 | 460 | 390 | 350 | 290 | 230 |
| 1-1/4" | VS134 | 3-1/4" SQ. | 40 | .032 | 14 | 1 | 18-7/16 | 980 | 840 | 760 | 680 | 600 | 520 | 440 | 390 | 320 | 250 |
| 1-1/4" | VS135 | 3-1/4" SQ. | 50 | .032 | 14 | 1 | 18-7/16 | 1020 | 880 | 800 | 700 | 620 | 540 | 460 | 410 | 340 | 270 |

STYLES V4 AND JV4 "AR" CLASSIC

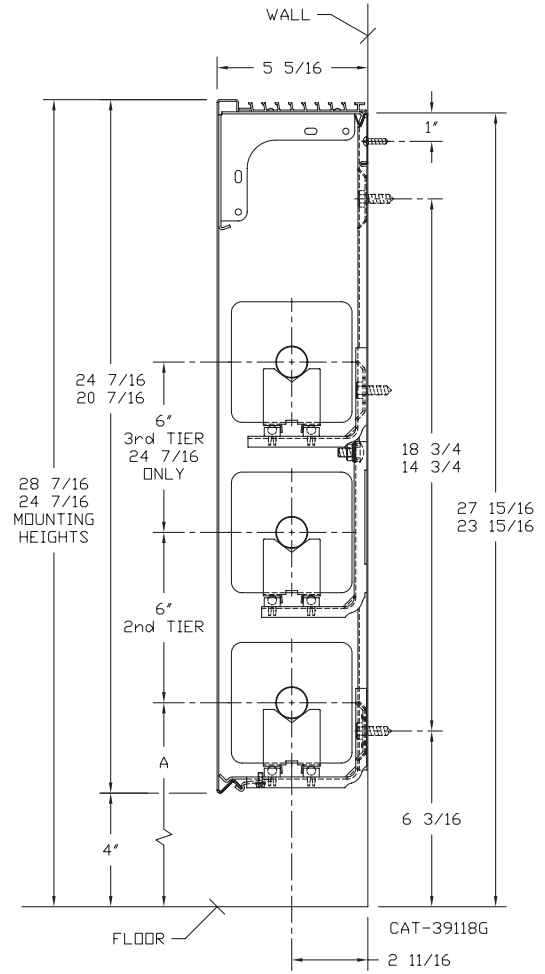
Accessories

V4 – Underlapping Reveal Type

JV4 – Overlapping Type



Styles V4 and JV4-AR14



Styles V4 and JV4-AR20 24

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|--------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 7" |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | 7 3/8 |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | 7 3/16 |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | 7 3/16 |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | 7 5/16 |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | 7 5/16 |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | 7 5/16 |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | 7 1/2 |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | 7 1/4 |

STYLES JVB VB-AR14 20 24

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 14 | 1 | 18-7/16 | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 |
| | | | | | 20 | 1 | 24-7/16 | 1400 | 1200 | 1090 | 970 | 850 | 740 | 630 | 560 | 460 | 360 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2220 | 1910 | 1730 | 1530 | 1350 | 1180 | 1000 | 890 | 730 | 580 |
| | | | | | 24 | 1 | 28-7/16 | 1425 | 1230 | 1110 | 980 | 870 | 760 | 640 | 570 | 470 | 370 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2270 | 1950 | 1770 | 1570 | 1380 | 1200 | 1020 | 910 | 750 | 590 |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 14 | 1 | 18-7/16 | 1620 | 1390 | 1260 | 1120 | 990 | 860 | 730 | 650 | 530 | 420 |
| | | | | | 20 | 1 | 24-7/16 | 1710 | 1470 | 1330 | 1180 | 1040 | 910 | 770 | 680 | 560 | 440 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2390 | 2060 | 1860 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| | | | | | 24 | 1 | 28-7/16 | 1800 | 1550 | 1400 | 1240 | 1100 | 950 | 810 | 720 | 590 | 470 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2490 | 2140 | 1940 | 1720 | 1520 | 1320 | 1120 | 1000 | 820 | 650 |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 14 | 1 | 18-7/16 | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 |
| | | | | | 20 | 1 | 24-7/16 | 1940 | 1670 | 1510 | 1340 | 1180 | 1030 | 870 | 780 | 640 | 500 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2400 | 2060 | 1870 | 1660 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| | | | | | 24 | 1 | 28-7/16 | 2080 | 1790 | 1620 | 1440 | 1270 | 1100 | 940 | 830 | 690 | 540 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2530 | 2180 | 1970 | 1750 | 1540 | 1340 | 1140 | 1010 | 830 | 660 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 14 | 1 | 18-7/16 | 1410 | 1210 | 1100 | 970 | 860 | 750 | 630 | 560 | 470 | 370 |
| | | | | | 20 | 1 | 24-7/16 | 1450 | 1250 | 1130 | 1000 | 880 | 770 | 650 | 580 | 480 | 380 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2320 | 2000 | 1810 | 1600 | 1420 | 1230 | 1040 | 930 | 770 | 600 |
| | | | | | 24 | 1 | 28-7/16 | 1480 | 1270 | 1150 | 1020 | 900 | 780 | 670 | 590 | 490 | 380 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2410 | 2070 | 1880 | 1660 | 1470 | 1280 | 1080 | 960 | 800 | 630 |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 14 | 1 | 18-7/16 | 1690 | 1450 | 1320 | 1170 | 1030 | 900 | 760 | 680 | 560 | 440 |
| | | | | | 20 | 1 | 24-7/16 | 1800 | 1550 | 1400 | 1240 | 1100 | 950 | 810 | 720 | 590 | 470 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| | | | | | 24 | 1 | 28-7/16 | 1890 | 1630 | 1470 | 1300 | 1150 | 1000 | 850 | 760 | 620 | 490 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2660 | 2290 | 2070 | 1840 | 1620 | 1410 | 1200 | 1060 | 880 | 690 |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 14 | 1 | 18-7/16 | 1850 | 1590 | 1440 | 1280 | 1130 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 20 | 1 | 24-7/16 | 2030 | 1750 | 1580 | 1400 | 1240 | 1080 | 910 | 810 | 670 | 530 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| | | | | | 24 | 1 | 28-7/16 | 2170 | 1870 | 1690 | 1500 | 1320 | 1150 | 980 | 870 | 720 | 560 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2660 | 2290 | 2070 | 1840 | 1620 | 1410 | 1200 | 1060 | 880 | 690 |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 14 | 1 | 18-7/16 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | | | | | 20 | 1 | 24-7/16 | 1420 | 1220 | 1110 | 980 | 870 | 750 | 640 | 570 | 470 | 370 |
| | | | | | 20 | 2 @ 6 CL | 24-7/16 | 2280 | 1960 | 1780 | 1570 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| | | | | | 24 | 1 | 28-7/16 | 1450 | 1250 | 1130 | 1000 | 880 | 770 | 650 | 580 | 480 | 380 |
| | | | | | 24 | 2 @ 6 CL | 28-7/16 | 2370 | 2040 | 1850 | 1640 | 1450 | 1260 | 1070 | 950 | 780 | 620 |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 14 | 1 | 18-7/16 | 1660 | 1430 | 1290 | 1150 | 1010 | 880 | 750 | 660 | 550 | 430 |
| | | | | | 20 | 1 | 24-7/16 | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 |
| | | | | | 20 | 2 @ 6 CL | 24-7/16 | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |
| | | | | | 24 | 1 | 28-7/16 | 1850 | 1590 | 1440 | 1280 | 1130 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 24 | 2 @ 6 CL | 28-7/16 | 2600 | 2240 | 2030 | 1790 | 1590 | 1380 | 1170 | 1040 | 860 | 680 |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 14 | 1 | 18-7/16 | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 |
| | | | | | 20 | 1 | 24-7/16 | 1920 | 1650 | 1500 | 1320 | 1170 | 1020 | 860 | 770 | 630 | 500 |
| | | | | | 20 | 2 @ 6 CL | 24-7/16 | 2370 | 2040 | 1850 | 1640 | 1450 | 1260 | 1070 | 950 | 780 | 620 |
| | | | | | 24 | 1 | 28-7/16 | 2050 | 1760 | 1600 | 1410 | 1250 | 1090 | 920 | 820 | 680 | 530 |
| | | | | | 24 | 2 @ 6 CL | 28-7/16 | 2500 | 2150 | 1950 | 1720 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 14 | 1 | 18-7/16 | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 |
| | | | | | 20 | 1 | 24-7/16 | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2310 | 1990 | 1800 | 1590 | 1410 | 1220 | 1040 | 920 | 760 | 600 |
| | | | | | 24 | 1 | 28-7/16 | 1570 | 1350 | 1220 | 1080 | 960 | 830 | 710 | 630 | 520 | 410 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2410 | 2070 | 1880 | 1660 | 1470 | 1280 | 1080 | 960 | 800 | 630 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 14 | 1 | 18-7/16 | 2770 | 2380 | 2160 | 1910 | 1690 | 1470 | 1250 | 1110 | 910 | 720 |

STYLES JV4 V4-AR14 20 24

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | 1.00 | 0.86 |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 14 | 1 | 18-7/16 | 1840 | 1580 | 1440 | 1270 | 1120 | 980 | 830 | 740 | 610 | 480 | |
| | | | | | | | | | 1950 | 1680 | 1520 | 1350 | 1190 | 1030 | 880 | 780 | 640 | 510 |
| | | | | | | | | | 2360 | 2030 | 1840 | 1630 | 1440 | 1250 | 1060 | 940 | 780 | 610 |
| | | | | | | | | | 2070 | 1780 | 1610 | 1430 | 1260 | 1100 | 930 | 830 | 680 | 540 |
| | | | | | | | | | 2550 | 2190 | 1990 | 1760 | 1560 | 1350 | 1150 | 1020 | 840 | 660 |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 24 | 1 | 28-7/16 | 2200 | 1890 | 1720 | 1520 | 1340 | 1170 | 990 | 880 | 730 | 570 | |
| | | | | | | | | | 2480 | 2130 | 1930 | 1710 | 1510 | 1310 | 1120 | 990 | 820 | 640 |
| | | | | | | | | | 2670 | 2300 | 2080 | 1840 | 1630 | 1420 | 1200 | 1070 | 880 | 690 |
| | | | | | | | | | 2070 | 1780 | 1610 | 1430 | 1260 | 1100 | 930 | 830 | 680 | 540 |
| | | | | | | | | | 2910 | 2500 | 2270 | 2010 | 1780 | 1540 | 1310 | 1160 | 960 | 760 |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 14 | 1 | 18-7/16 | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 | |
| | | | | | | | | | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | | | | | | | | | 2340 | 2010 | 1830 | 1610 | 1430 | 1240 | 1050 | 940 | 770 | 610 |
| | | | | | | | | | 1580 | 1360 | 1230 | 1090 | 960 | 840 | 710 | 630 | 520 | 410 |
| | | | | | | | | | 2440 | 2100 | 1900 | 1680 | 1490 | 1290 | 1100 | 980 | 810 | 630 |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 14 | 1 | 18-7/16 | 1720 | 1480 | 1340 | 1190 | 1050 | 910 | 770 | 690 | 570 | 450 | |
| | | | | | | | | | 1810 | 1560 | 1410 | 1250 | 1100 | 960 | 810 | 720 | 600 | 470 |
| | | | | | | | | | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| | | | | | | | | | 1920 | 1650 | 1500 | 1320 | 1170 | 1020 | 860 | 770 | 630 | 500 |
| | | | | | | | | | 2600 | 2240 | 2030 | 1790 | 1590 | 1380 | 1170 | 1040 | 860 | 680 |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 14 | 1 | 18-7/16 | 1900 | 1630 | 1480 | 1310 | 1160 | 1010 | 860 | 760 | 630 | 490 | |
| | | | | | | | | | 2090 | 1800 | 1630 | 1440 | 1270 | 1110 | 940 | 840 | 690 | 540 |
| | | | | | | | | | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| | | | | | | | | | 2250 | 1940 | 1760 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 590 |
| | | | | | | | | | 3060 | 2630 | 2390 | 2110 | 1870 | 1620 | 1380 | 1220 | 1010 | 800 |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 14 | 1 | 18-7/16 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 | |
| | | | | | | | | | 1510 | 1300 | 1180 | 1040 | 920 | 800 | 680 | 600 | 500 | 390 |
| | | | | | | | | | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 |
| | | | | | | | | | 1550 | 1330 | 1210 | 1070 | 950 | 820 | 700 | 620 | 510 | 400 |
| | | | | | | | | | 2390 | 2060 | 1860 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 14 | 1 | 18-7/16 | 1690 | 1450 | 1320 | 1170 | 1030 | 900 | 760 | 680 | 560 | 440 | |
| | | | | | | | | | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 |
| | | | | | | | | | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |
| | | | | | | | | | 1890 | 1630 | 1470 | 1300 | 1150 | 1000 | 850 | 760 | 620 | 490 |
| | | | | | | | | | 2550 | 2190 | 1990 | 1760 | 1560 | 1350 | 1150 | 1020 | 840 | 660 |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 14 | 1 | 18-7/16 | 1870 | 1610 | 1460 | 1290 | 1140 | 990 | 840 | 750 | 620 | 490 | |
| | | | | | | | | | 2050 | 1760 | 1600 | 1410 | 1250 | 1090 | 920 | 820 | 680 | 530 |
| | | | | | | | | | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |
| | | | | | | | | | 2210 | 1900 | 1720 | 1520 | 1350 | 1170 | 990 | 880 | 730 | 570 |
| | | | | | | | | | 2650 | 2280 | 2070 | 1830 | 1620 | 1400 | 1190 | 1060 | 870 | 690 |

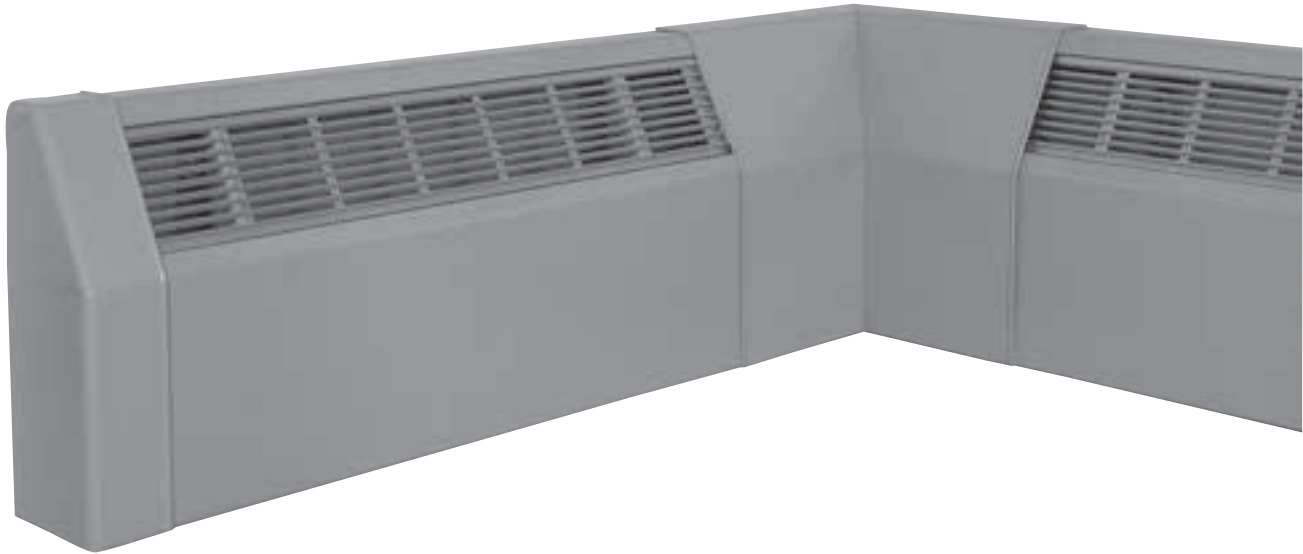
STYLES JV4 V4-AR14 20 24

STEEL ELEMENT RATINGS

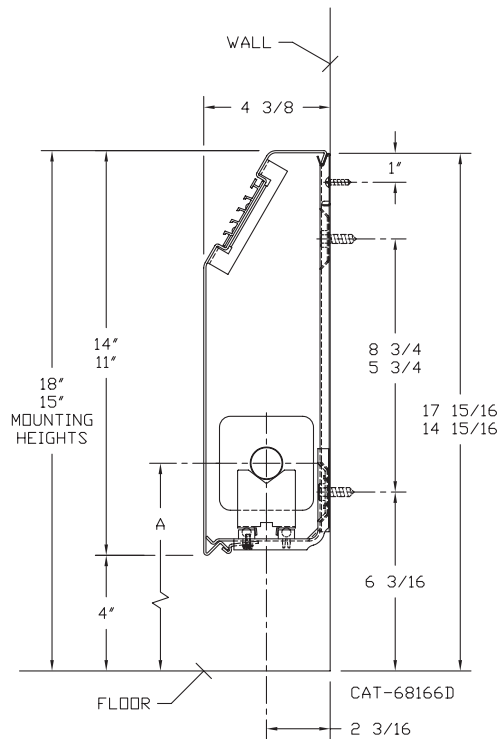
ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 14 | 1 | 18-7/16 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| | | | | | 20 | 1 | 24-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2080 | 1790 | 1620 | 1440 | 1270 | 1100 | 940 | 830 | 690 | 540 |
| | | | | | 24 | 1 | 28-7/16 | 1310 | 1130 | 1020 | 900 | 800 | 690 | 590 | 520 | 430 | 340 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2120 | 1820 | 1650 | 1460 | 1290 | 1120 | 950 | 850 | 700 | 550 |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 14 | 1 | 18-7/16 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 |
| | | | | | 20 | 1 | 24-7/16 | 1530 | 1320 | 1190 | 1060 | 930 | 810 | 690 | 610 | 500 | 400 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2330 | 2000 | 1820 | 1610 | 1420 | 1230 | 1050 | 930 | 770 | 610 |
| | | | | | 24 | 1 | 28-7/16 | 1600 | 1380 | 1250 | 1100 | 980 | 850 | 720 | 640 | 530 | 420 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2395 | 2060 | 1870 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 14 | 1 | 18-7/16 | 1490 | 1280 | 1160 | 1030 | 910 | 790 | 670 | 600 | 490 | 390 |
| | | | | | 20 | 1 | 24-7/16 | 1565 | 1350 | 1220 | 1080 | 950 | 830 | 700 | 630 | 520 | 410 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2285 | 1970 | 1780 | 1580 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| | | | | | 24 | 1 | 28-7/16 | 1620 | 1390 | 1260 | 1120 | 990 | 860 | 730 | 650 | 530 | 420 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2320 | 2000 | 1810 | 1600 | 1420 | 1230 | 1040 | 930 | 770 | 600 |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 14 | 1 | 18-7/16 | 1110 | 950 | 870 | 770 | 680 | 590 | 500 | 440 | 370 | 290 |
| | | | | | 20 | 1 | 24-7/16 | 1170 | 1010 | 910 | 810 | 710 | 620 | 530 | 470 | 390 | 300 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 1910 | 1640 | 1490 | 1320 | 1170 | 1010 | 860 | 760 | 630 | 500 |
| | | | | | 24 | 1 | 28-7/16 | 1200 | 1030 | 940 | 830 | 730 | 640 | 540 | 480 | 400 | 310 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 1940 | 1670 | 1510 | 1340 | 1180 | 1030 | 870 | 780 | 640 | 500 |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 14 | 1 | 18-7/16 | 1430 | 1230 | 1120 | 990 | 870 | 760 | 640 | 570 | 470 | 370 |
| | | | | | 20 | 1 | 24-7/16 | 1520 | 1310 | 1190 | 1050 | 930 | 810 | 680 | 610 | 500 | 400 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 |
| | | | | | 24 | 1 | 28-7/16 | 1590 | 1370 | 1240 | 1100 | 970 | 840 | 720 | 640 | 520 | 410 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 14 | 1 | 18-7/16 | 1460 | 1260 | 1140 | 1010 | 890 | 770 | 660 | 580 | 480 | 380 |
| | | | | | 20 | 1 | 24-7/16 | 1535 | 1320 | 1200 | 1060 | 940 | 810 | 690 | 610 | 510 | 400 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 |
| | | | | | 24 | 1 | 28-7/16 | 1595 | 1370 | 1240 | 1100 | 970 | 850 | 720 | 640 | 530 | 410 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2275 | 1960 | 1770 | 1570 | 1390 | 1210 | 1020 | 910 | 750 | 590 |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 14 | 1 | 18-7/16 | 1090 | 940 | 850 | 750 | 660 | 580 | 490 | 440 | 360 | 280 |
| | | | | | 20 | 1 | 24-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 1830 | 1570 | 1430 | 1260 | 1120 | 970 | 820 | 730 | 600 | 480 |
| | | | | | 24 | 1 | 28-7/16 | 1150 | 990 | 900 | 790 | 700 | 610 | 520 | 460 | 380 | 300 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 1850 | 1590 | 1440 | 1280 | 1130 | 980 | 830 | 740 | 610 | 480 |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 14 | 1 | 18-7/16 | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 |
| | | | | | 20 | 1 | 24-7/16 | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 |
| | | | | | 20 | 2-6 CL | 24-7/16 | 2030 | 1750 | 1580 | 1400 | 1240 | 1080 | 910 | 810 | 670 | 530 |
| | | | | | 24 | 1 | 28-7/16 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | | | | | 24 | 2-6 CL | 28-7/16 | 2060 | 1770 | 1610 | 1420 | 1260 | 1090 | 930 | 820 | 680 | 540 |
| 24 | 3-6 CL | 28-7/16 | 2370 | 2040 | 1850 | 1640 | 1450 | 1260 | 1070 | 950 | 780 | 620 | | | | | |

STYLE JV3 "ARS" CLASSIC SLOPE



JV3-ARS11 14



| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|---------|
| 3/4 COPPER | 3 1/4 x 3 1/4 | 2 | 7" |
| 1" COPPER | 3 1/4 x 3 1/4 | 2 | 7 3/16 |
| 1 1/4 COPPER | 3 1/4 x 3 1/4 | 1 | 6 5/8 |
| 1" STEEL | 3 1/4 x 3 1/4 | 2 | 7 5/16 |
| 1 1/4 STEEL | 3 1/4 x 3 1/4 | 1 | 6 13/16 |

See page 41 for element center line dimensions with water bracket installation.

STYLE JV3-ARS11 14 SLOPE TOP

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-33 | 3-1/4" SQ. | 32 | .020 | 11 | 1 | 15 | 1000 | 860 | 780 | 690 | 610 | 530 | 450 | 400 | 330 | 260 | |
| | | | | | 14 | | 18 | 1080 | 930 | 840 | 750 | 660 | 570 | 490 | 430 | 360 | 280 | |
| 3/4" | VC3/4-34 | 3-1/4" SQ. | 40 | .020 | 11 | 1 | 15 | 1180 | 1010 | 920 | 810 | 720 | 630 | 530 | 470 | 390 | 310 | |
| | | | | | 14 | | 18 | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 | |
| 3/4" | VC3/4-35 | 3-1/4" SQ. | 50 | .020 | 11 | 1 | 15 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 | |
| | | | | | 14 | | 18 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 | |
| 1" | VC33 | 3-1/4" SQ. | 32 | .020 | 11 | 1 | 15 | 980 | 840 | 760 | 680 | 600 | 520 | 440 | 390 | 320 | 250 | |
| | | | | | 14 | | 18 | 1060 | 910 | 830 | 730 | 650 | 560 | 480 | 420 | 350 | 280 | |
| 1" | VC34 | 3-1/4" SQ. | 40 | .020 | 11 | 1 | 15 | 1150 | 990 | 900 | 790 | 700 | 610 | 520 | 460 | 380 | 300 | |
| | | | | | 14 | | 18 | 1250 | 1080 | 980 | 860 | 760 | 660 | 560 | 500 | 410 | 330 | |
| 1" | VC35 | 3-1/4" SQ. | 50 | .020 | 11 | 1 | 15 | 1260 | 1080 | 980 | 870 | 770 | 670 | 570 | 500 | 420 | 330 | |
| | | | | | 14 | | 18 | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 | |
| 1 1/4" | VC133 | 3-1/4" SQ. | 32 | .020 | 11 | 1 | 15 | 920 | 790 | 720 | 630 | 560 | 490 | 410 | 370 | 300 | 240 | |
| | | | | | 14 | | 18 | 1020 | 880 | 800 | 700 | 620 | 540 | 460 | 410 | 340 | 270 | |
| 1 1/4" | VC134 | 3-1/4" SQ. | 40 | .020 | 11 | 1 | 15 | 1080 | 930 | 840 | 750 | 660 | 570 | 490 | 430 | 360 | 280 | |
| | | | | | 14 | | 18 | 1190 | 1020 | 930 | 820 | 730 | 630 | 540 | 480 | 390 | 310 | |
| 1 1/4" | VC135 | 3-1/4" SQ. | 50 | .020 | 11 | 1 | 15 | 1190 | 1020 | 930 | 820 | 730 | 630 | 540 | 480 | 390 | 310 | |
| | | | | | 14 | | 18 | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 | |

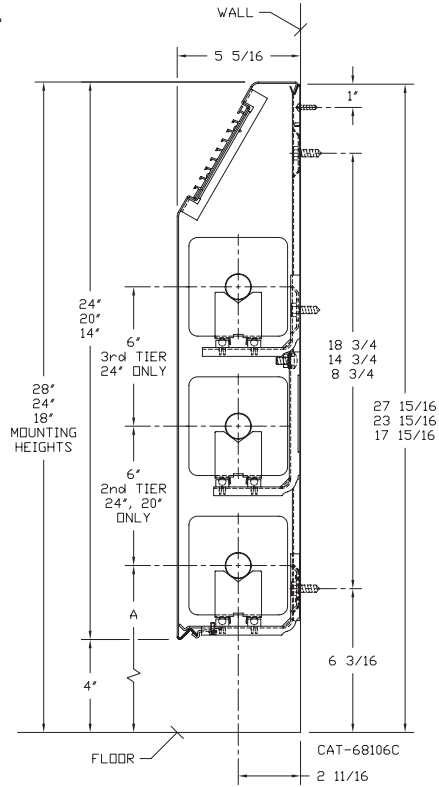
STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS33 | 3-1/4" SQ. | 32 | .032 | 11 | 1 | 15 | 930 | 800 | 730 | 640 | 570 | 490 | 420 | 370 | 310 | 240 | |
| | | | | | 14 | 1 | 18 | 970 | 830 | 760 | 670 | 590 | 510 | 440 | 390 | 320 | 250 | |
| 1" | VS34 | 3-1/4" SQ. | 40 | .032 | 11 | 1 | 15 | 990 | 850 | 770 | 680 | 600 | 520 | 450 | 400 | 330 | 260 | |
| | | | | | 14 | 1 | 18 | 1110 | 950 | 870 | 770 | 680 | 590 | 500 | 440 | 370 | 290 | |
| 1" | VS35 | 3-1/4" SQ. | 50 | .032 | 11 | 1 | 15 | 1055 | 910 | 820 | 730 | 640 | 560 | 470 | 420 | 350 | 270 | |
| | | | | | 14 | 1 | 18 | 1180 | 1010 | 920 | 810 | 720 | 630 | 530 | 470 | 390 | 310 | |
| 1-1/4" | VS133 | 3-1/4" SQ. | 32 | .032 | 11 | 1 | 15 | 920 | 790 | 720 | 630 | 560 | 490 | 410 | 370 | 300 | 240 | |
| | | | | | 14 | 1 | 18 | 960 | 830 | 750 | 660 | 590 | 510 | 430 | 380 | 320 | 250 | |
| 1-1/4" | VS134 | 3-1/4" SQ. | 40 | .032 | 11 | 1 | 15 | 1000 | 860 | 780 | 690 | 610 | 530 | 450 | 400 | 330 | 260 | |
| | | | | | 14 | 1 | 18 | 1120 | 960 | 870 | 770 | 680 | 590 | 500 | 450 | 370 | 290 | |
| 1-1/4" | VS135 | 3-1/4" SQ. | 50 | .032 | 11 | 1 | 15 | 1030 | 890 | 800 | 710 | 630 | 550 | 460 | 410 | 340 | 270 | |
| | | | | | 14 | 1 | 18 | 1150 | 990 | 900 | 790 | 700 | 610 | 520 | 460 | 380 | 300 | |

STYLE JV4 "ARS" CLASSIC SLOPE

JV4-ARS14 20 24



| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|---------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 7" |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | 7 3/8" |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | 7 3/16" |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | 7 3/16" |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | 7 5/16" |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | 7 5/16" |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | 7 5/16" |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | 7 1/2" |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | 7 1/4" |

See page 41 for element center line dimensions with water bracket installation.

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 14 | 1 | 18 | 1520 | 1310 | 1190 | 1050 | 930 | 810 | 680 | 610 | 500 | 400 |
| | | | | | 20 | 1 | 24 | 1600 | 1380 | 1250 | 1100 | 980 | 850 | 720 | 640 | 530 | 420 |
| | | | | | 20 | 2-6 CL | 24 | 2480 | 2130 | 1930 | 1710 | 1510 | 1310 | 1120 | 990 | 820 | 640 |
| | | | | | 24 | 1 | 28 | 1670 | 1440 | 1300 | 1150 | 1020 | 890 | 750 | 670 | 550 | 430 |
| | | | | | 24 | 2-6 CL | 28 | 2570 | 2210 | 2000 | 1770 | 1570 | 1360 | 1160 | 1030 | 850 | 670 |
| | | | | | 24 | 3-6 CL | 28 | 2960 | 2550 | 2310 | 2040 | 1810 | 1570 | 1330 | 1180 | 980 | 770 |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 14 | 1 | 18 | 1700 | 1460 | 1330 | 1170 | 1040 | 900 | 770 | 680 | 560 | 440 |
| | | | | | 20 | 1 | 24 | 1820 | 1570 | 1420 | 1260 | 1110 | 960 | 820 | 730 | 600 | 470 |
| | | | | | 20 | 2-6 CL | 24 | 2580 | 2220 | 2010 | 1780 | 1570 | 1370 | 1160 | 1030 | 850 | 670 |
| | | | | | 24 | 1 | 28 | 1910 | 1640 | 1490 | 1320 | 1170 | 1010 | 860 | 760 | 630 | 500 |
| | | | | | 24 | 2-6 CL | 28 | 2700 | 2320 | 2110 | 1860 | 1650 | 1430 | 1220 | 1080 | 890 | 700 |
| | | | | | 24 | 3-6 CL | 28 | 3080 | 2650 | 2400 | 2130 | 1880 | 1630 | 1390 | 1230 | 1020 | 800 |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 14 | 1 | 18 | 1840 | 1580 | 1440 | 1270 | 1120 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 20 | 1 | 24 | 2090 | 1800 | 1630 | 1440 | 1270 | 1110 | 940 | 840 | 690 | 540 |
| | | | | | 20 | 2-6 CL | 24 | 2820 | 2430 | 2200 | 1950 | 1720 | 1490 | 1270 | 1130 | 930 | 730 |
| | | | | | 24 | 1 | 28 | 2260 | 1940 | 1760 | 1560 | 1380 | 1200 | 1020 | 900 | 750 | 590 |
| | | | | | 24 | 2-6 CL | 28 | 3110 | 2670 | 2430 | 2150 | 1900 | 1650 | 1400 | 1240 | 1030 | 810 |
| | | | | | 24 | 3-6 CL | 28 | 3510 | 3020 | 2740 | 2420 | 2140 | 1860 | 1580 | 1400 | 1160 | 910 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 14 | 1 | 18 | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | | | | | 20 | 1 | 24 | 1620 | 1390 | 1260 | 1120 | 990 | 860 | 730 | 650 | 530 | 420 |
| | | | | | 20 | 2-6 CL | 24 | 2500 | 2150 | 1950 | 1720 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| | | | | | 24 | 1 | 28 | 1690 | 1450 | 1320 | 1170 | 1030 | 900 | 760 | 680 | 560 | 440 |
| | | | | | 24 | 2-6 CL | 28 | 2590 | 2230 | 2020 | 1790 | 1580 | 1370 | 1170 | 1040 | 850 | 670 |
| | | | | | 24 | 3-6 CL | 28 | 2980 | 2560 | 2320 | 2060 | 1820 | 1580 | 1340 | 1190 | 980 | 770 |

STYLE JV4-ARS14 20 24 SLOPE TOP

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | | 1.00 |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 14 | 1 | 18 | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 | |
| | | | | | 20 | 1 | 24 | 1900 | 1630 | 1480 | 1310 | 1160 | 1010 | 860 | 760 | 630 | 490 | |
| | | | | | 20 | 2-6 CL | 24 | 2660 | 2290 | 2070 | 1840 | 1620 | 1410 | 1200 | 1060 | 880 | 690 | |
| | | | | | 24 | 1 | 28 | 1990 | 1710 | 1550 | 1370 | 1210 | 1050 | 900 | 800 | 660 | 520 | |
| | | | | | 24 | 2-6 CL | 28 | 2770 | 2380 | 2160 | 1910 | 1690 | 1470 | 1250 | 1110 | 910 | 720 | |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 14 | 1 | 18 | 1930 | 1660 | 1510 | 1330 | 1180 | 1020 | 870 | 770 | 640 | 500 | |
| | | | | | 20 | 1 | 24 | 2180 | 1870 | 1700 | 1500 | 1330 | 1160 | 980 | 870 | 720 | 570 | |
| | | | | | 20 | 2-6 CL | 24 | 2640 | 2270 | 2060 | 1820 | 1610 | 1400 | 1190 | 1060 | 870 | 690 | |
| | | | | | 24 | 1 | 28 | 2360 | 2030 | 1840 | 1630 | 1440 | 1250 | 1060 | 940 | 780 | 610 | |
| | | | | | 24 | 2-6 CL | 28 | 2910 | 2500 | 2270 | 2010 | 1780 | 1540 | 1310 | 1160 | 960 | 760 | |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 14 | 1 | 18 | 1450 | 1250 | 1130 | 1000 | 880 | 770 | 650 | 580 | 480 | 380 | |
| | | | | | 20 | 1 | 24 | 1530 | 1320 | 1190 | 1060 | 930 | 810 | 690 | 610 | 500 | 400 | |
| | | | | | 20 | 2 @ 6 CL | 24 | 2360 | 2030 | 1840 | 1630 | 1440 | 1250 | 1060 | 940 | 780 | 610 | |
| | | | | | 24 | 1 | 28 | 1590 | 1370 | 1240 | 1100 | 970 | 840 | 720 | 640 | 520 | 410 | |
| | | | | | 24 | 2 @ 6 CL | 28 | 2450 | 2110 | 1910 | 1690 | 1490 | 1300 | 1100 | 980 | 810 | 640 | |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 14 | 1 | 18 | 1740 | 1500 | 1360 | 1200 | 1060 | 920 | 780 | 700 | 570 | 450 | |
| | | | | | 20 | 1 | 24 | 1880 | 1620 | 1470 | 1300 | 1150 | 1000 | 850 | 750 | 620 | 490 | |
| | | | | | 20 | 2 @ 6 CL | 24 | 2610 | 2240 | 2040 | 1800 | 1590 | 1380 | 1170 | 1040 | 860 | 680 | |
| | | | | | 24 | 1 | 28 | 1950 | 1680 | 1520 | 1350 | 1190 | 1030 | 880 | 780 | 640 | 510 | |
| | | | | | 24 | 2 @ 6 CL | 28 | 2710 | 2330 | 2110 | 1870 | 1650 | 1440 | 1220 | 1080 | 890 | 700 | |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 14 | 1 | 18 | 1860 | 1600 | 1450 | 1280 | 1130 | 990 | 840 | 740 | 610 | 480 | |
| | | | | | 20 | 1 | 24 | 2130 | 1830 | 1660 | 1470 | 1300 | 1130 | 960 | 850 | 700 | 550 | |
| | | | | | 20 | 2 @ 6 CL | 24 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 | |
| | | | | | 24 | 1 | 28 | 2270 | 1950 | 1770 | 1570 | 1380 | 1200 | 1020 | 910 | 750 | 590 | |
| | | | | | 24 | 2 @ 6 CL | 28 | 2810 | 2420 | 2190 | 1940 | 1710 | 1490 | 1260 | 1120 | 930 | 730 | |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 14 | 1 | 18 | 1630 | 1400 | 1270 | 1120 | 990 | 860 | 730 | 650 | 540 | 420 | |
| | | | | | 20 | 1 | 24 | 1720 | 1480 | 1340 | 1190 | 1050 | 910 | 770 | 690 | 570 | 450 | |
| | | | | | 20 | 2-6 CL | 24 | 2630 | 2260 | 2050 | 1810 | 1600 | 1390 | 1180 | 1050 | 870 | 680 | |
| | | | | | 24 | 1 | 28 | 1790 | 1540 | 1400 | 1240 | 1090 | 950 | 810 | 720 | 590 | 470 | |
| | | | | | 24 | 2-6 CL | 28 | 2810 | 2420 | 2190 | 1940 | 1710 | 1490 | 1260 | 1120 | 930 | 730 | |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 14 | 1 | 18 | 2030 | 1750 | 1580 | 1400 | 1240 | 1080 | 910 | 810 | 670 | 530 | |
| | | | | | 20 | 1 | 24 | 2200 | 1890 | 1720 | 1520 | 1340 | 1170 | 990 | 880 | 730 | 570 | |
| | | | | | 20 | 2-6 CL | 24 | 2910 | 2500 | 2270 | 2010 | 1780 | 1540 | 1310 | 1160 | 960 | 760 | |
| | | | | | 24 | 1 | 28 | 2340 | 2010 | 1830 | 1610 | 1430 | 1240 | 1050 | 940 | 770 | 610 | |
| | | | | | 24 | 2-6 CL | 28 | 3200 | 2750 | 2500 | 2210 | 1950 | 1700 | 1440 | 1280 | 1060 | 830 | |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 14 | 1 | 18 | 2040 | 1750 | 1590 | 1410 | 1240 | 1080 | 920 | 820 | 670 | 530 | |
| | | | | | 20 | 1 | 24 | 2320 | 2000 | 1810 | 1600 | 1420 | 1230 | 1040 | 930 | 770 | 600 | |
| | | | | | 20 | 2-6 CL | 24 | 3070 | 2640 | 2390 | 2120 | 1870 | 1630 | 1380 | 1230 | 1010 | 800 | |
| | | | | | 24 | 1 | 28 | 2470 | 2120 | 1930 | 1700 | 1510 | 1310 | 1110 | 990 | 820 | 640 | |
| | | | | | 24 | 2-6 CL | 28 | 3270 | 2810 | 2550 | 2260 | 1990 | 1730 | 1470 | 1310 | 1080 | 850 | |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 14 | 1 | 18 | 1650 | 1420 | 1290 | 1140 | 1010 | 870 | 740 | 660 | 540 | 430 | |
| | | | | | 20 | 1 | 24 | 1740 | 1500 | 1360 | 1200 | 1060 | 920 | 780 | 700 | 570 | 450 | |
| | | | | | 20 | 2-6 CL | 24 | 2590 | 2230 | 2020 | 1790 | 1580 | 1370 | 1170 | 1040 | 850 | 670 | |
| | | | | | 24 | 1 | 28 | 1810 | 1560 | 1410 | 1250 | 1100 | 960 | 810 | 720 | 600 | 470 | |
| | | | | | 24 | 2-6 CL | 28 | 2830 | 2430 | 2210 | 1950 | 1730 | 1500 | 1270 | 1130 | 930 | 740 | |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 14 | 1 | 18 | 1880 | 1620 | 1470 | 1300 | 1150 | 1000 | 850 | 750 | 620 | 490 | |
| | | | | | 20 | 1 | 24 | 2040 | 1750 | 1590 | 1410 | 1240 | 1080 | 920 | 820 | 670 | 530 | |
| | | | | | 20 | 2-6 CL | 24 | 2690 | 2310 | 2100 | 1860 | 1640 | 1430 | 1210 | 1080 | 890 | 700 | |
| | | | | | 24 | 1 | 28 | 2140 | 1840 | 1670 | 1480 | 1310 | 1130 | 960 | 860 | 710 | 560 | |
| | | | | | 24 | 2-6 CL | 28 | 2920 | 2510 | 2280 | 2010 | 1780 | 1550 | 1310 | 1170 | 960 | 760 | |

STYLE JV4-ARS14 20 24 SLOPE TOP

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 14 | 1 | 18 | 2060 | 1770 | 1610 | 1420 | 1260 | 1090 | 930 | 820 | 680 | 540 |
| | | | | | 20 | 1 | 24 | 2340 | 2010 | 1830 | 1610 | 1430 | 1240 | 1050 | 940 | 770 | 610 |
| | | | | | 20 | 2-6 CL | 24 | 2680 | 2300 | 2090 | 1850 | 1630 | 1420 | 1210 | 1070 | 880 | 700 |
| | | | | | 24 | 1 | 28 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| | | | | | 24 | 2-6 CL | 28 | 3000 | 2580 | 2340 | 2070 | 1830 | 1590 | 1350 | 1200 | 990 | 780 |
| | | | | | 24 | 3-6 CL | 28 | 3390 | 2920 | 2640 | 2340 | 2070 | 1800 | 1530 | 1360 | 1120 | 880 |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 14 | 1 | 18 | 1620 | 1390 | 1260 | 1120 | 990 | 860 | 730 | 650 | 530 | 420 |
| | | | | | 20 | 1 | 24 | 1710 | 1470 | 1330 | 1180 | 1040 | 910 | 770 | 680 | 560 | 440 |
| | | | | | 20 | 2-6 CL | 24 | 2540 | 2180 | 1980 | 1750 | 1550 | 1350 | 1140 | 1020 | 840 | 660 |
| | | | | | 24 | 1 | 28 | 1770 | 1520 | 1380 | 1220 | 1080 | 940 | 800 | 710 | 580 | 460 |
| | | | | | 24 | 2-6 CL | 28 | 2780 | 2390 | 2170 | 1920 | 1700 | 1470 | 1250 | 1110 | 920 | 720 |
| | | | | | 24 | 3-6 CL | 28 | 3200 | 2750 | 2500 | 2210 | 1950 | 1700 | 1440 | 1280 | 1060 | 830 |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 14 | 1 | 18 | 1850 | 1590 | 1440 | 1280 | 1130 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 20 | 1 | 24 | 2000 | 1720 | 1560 | 1380 | 1220 | 1060 | 900 | 800 | 660 | 520 |
| | | | | | 20 | 2-6 CL | 24 | 2640 | 2270 | 2060 | 1820 | 1610 | 1400 | 1190 | 1060 | 870 | 690 |
| | | | | | 24 | 1 | 28 | 2100 | 1810 | 1640 | 1450 | 1280 | 1110 | 950 | 840 | 690 | 550 |
| | | | | | 24 | 2-6 CL | 28 | 2870 | 2470 | 2240 | 1980 | 1750 | 1520 | 1290 | 1150 | 950 | 750 |
| | | | | | 24 | 3-6 CL | 28 | 3270 | 2810 | 2550 | 2260 | 1990 | 1730 | 1470 | 1310 | 1080 | 850 |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 14 | 1 | 18 | 2020 | 1740 | 1580 | 1390 | 1230 | 1070 | 910 | 810 | 670 | 530 |
| | | | | | 20 | 1 | 24 | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 |
| | | | | | 20 | 2-6 CL | 24 | 2630 | 2260 | 2050 | 1810 | 1600 | 1390 | 1180 | 1050 | 870 | 680 |
| | | | | | 24 | 1 | 28 | 2470 | 2120 | 1930 | 1700 | 1510 | 1310 | 1110 | 990 | 820 | 640 |
| | | | | | 24 | 2-6 CL | 28 | 2950 | 2540 | 2300 | 2040 | 1800 | 1560 | 1330 | 1180 | 970 | 770 |
| | | | | | 24 | 3-6 CL | 28 | 3330 | 2860 | 2600 | 2300 | 2030 | 1760 | 1500 | 1330 | 1100 | 870 |

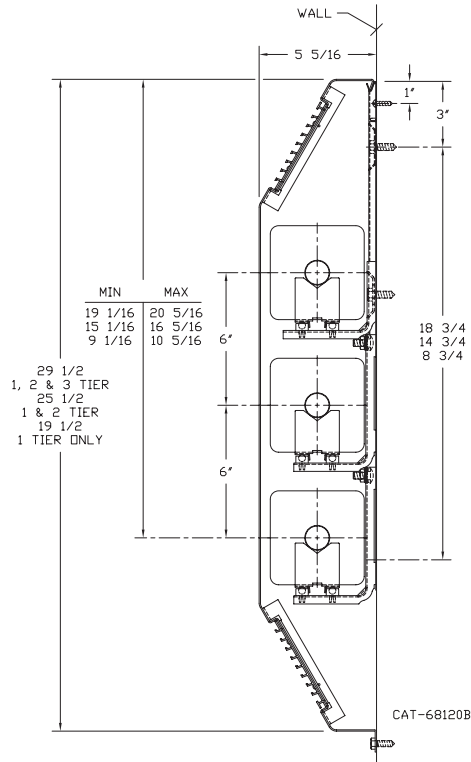
STYLE JV4-ARS14 20 24 SLOPE TOP

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 14 | 1 | 18 | 1410 | 1210 | 1100 | 970 | 860 | 750 | 630 | 560 | 470 | 370 |
| | | | | | 20 | 1 | 24 | 1460 | 1260 | 1140 | 1010 | 890 | 770 | 660 | 580 | 480 | 380 |
| | | | | | 20 | 2-6 CL | 24 | 2200 | 1890 | 1720 | 1520 | 1340 | 1170 | 990 | 880 | 730 | 570 |
| | | | | | 24 | 1 | 28 | 1500 | 1290 | 1170 | 1040 | 920 | 800 | 680 | 600 | 500 | 390 |
| | | | | | 24 | 2-6 CL | 28 | 2270 | 1950 | 1770 | 1570 | 1380 | 1200 | 1020 | 910 | 750 | 590 |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 14 | 1 | 18 | 1580 | 1360 | 1230 | 1090 | 960 | 840 | 710 | 630 | 520 | 410 |
| | | | | | 20 | 1 | 24 | 1680 | 1440 | 1310 | 1160 | 1020 | 890 | 760 | 670 | 550 | 440 |
| | | | | | 20 | 2-6 CL | 24 | 2380 | 2050 | 1860 | 1640 | 1450 | 1260 | 1070 | 950 | 790 | 620 |
| | | | | | 24 | 1 | 28 | 1740 | 1500 | 1360 | 1200 | 1060 | 920 | 780 | 700 | 570 | 450 |
| | | | | | 24 | 2-6 CL | 28 | 2490 | 2140 | 1940 | 1720 | 1520 | 1320 | 1120 | 1000 | 820 | 650 |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 14 | 1 | 18 | 1655 | 1420 | 1290 | 1140 | 1010 | 880 | 740 | 660 | 550 | 430 |
| | | | | | 20 | 1 | 24 | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 |
| | | | | | 20 | 2-6 CL | 24 | 2435 | 2090 | 1900 | 1680 | 1490 | 1290 | 1100 | 970 | 800 | 630 |
| | | | | | 24 | 1 | 28 | 1825 | 1570 | 1420 | 1260 | 1110 | 970 | 820 | 730 | 600 | 470 |
| | | | | | 24 | 2-6 CL | 28 | 2550 | 2190 | 1990 | 1760 | 1560 | 1350 | 1150 | 1020 | 840 | 660 |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 14 | 1 | 18 | 1300 | 1120 | 1010 | 900 | 790 | 690 | 590 | 520 | 430 | 340 |
| | | | | | 20 | 1 | 24 | 1340 | 1150 | 1050 | 920 | 820 | 710 | 600 | 540 | 440 | 350 |
| | | | | | 20 | 2-6 CL | 24 | 2020 | 1740 | 1580 | 1390 | 1230 | 1070 | 910 | 810 | 670 | 530 |
| | | | | | 24 | 1 | 28 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | | | | | 24 | 2-6 CL | 28 | 2080 | 1790 | 1620 | 1440 | 1270 | 1100 | 940 | 830 | 690 | 540 |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 14 | 1 | 18 | 1570 | 1350 | 1220 | 1080 | 960 | 830 | 710 | 630 | 520 | 410 |
| | | | | | 20 | 1 | 24 | 1670 | 1440 | 1300 | 1150 | 1020 | 890 | 750 | 670 | 550 | 430 |
| | | | | | 20 | 2-6 CL | 24 | 2370 | 2040 | 1850 | 1640 | 1450 | 1260 | 1070 | 950 | 780 | 620 |
| | | | | | 24 | 1 | 28 | 1730 | 1490 | 1350 | 1190 | 1060 | 920 | 780 | 690 | 570 | 450 |
| | | | | | 24 | 2-6 CL | 28 | 2480 | 2130 | 1930 | 1710 | 1510 | 1310 | 1120 | 990 | 820 | 640 |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 14 | 1 | 18 | 1645 | 1410 | 1280 | 1140 | 1000 | 870 | 740 | 660 | 540 | 430 |
| | | | | | 20 | 1 | 24 | 1750 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 |
| | | | | | 20 | 2-6 CL | 24 | 2390 | 2060 | 1860 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| | | | | | 24 | 1 | 28 | 1810 | 1560 | 1410 | 1250 | 1100 | 960 | 810 | 720 | 600 | 470 |
| | | | | | 24 | 2-6 CL | 28 | 2500 | 2150 | 1950 | 1720 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 14 | 1 | 18 | 1200 | 1030 | 940 | 830 | 730 | 640 | 540 | 480 | 400 | 310 |
| | | | | | 20 | 1 | 24 | 1230 | 1060 | 960 | 850 | 750 | 650 | 550 | 490 | 410 | 320 |
| | | | | | 20 | 2-6 CL | 24 | 1930 | 1660 | 1510 | 1330 | 1180 | 1020 | 870 | 770 | 640 | 500 |
| | | | | | 24 | 1 | 28 | 1250 | 1080 | 980 | 860 | 760 | 660 | 560 | 500 | 410 | 330 |
| | | | | | 24 | 2-6 CL | 28 | 1940 | 1670 | 1510 | 1340 | 1180 | 1030 | 870 | 780 | 640 | 500 |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 14 | 1 | 18 | 1400 | 1200 | 1090 | 970 | 850 | 740 | 630 | 560 | 460 | 360 |
| | | | | | 20 | 1 | 24 | 1450 | 1250 | 1130 | 1000 | 880 | 770 | 650 | 580 | 480 | 380 |
| | | | | | 20 | 2-6 CL | 24 | 2110 | 1810 | 1650 | 1460 | 1290 | 1120 | 950 | 840 | 700 | 550 |
| | | | | | 24 | 1 | 28 | 1490 | 1280 | 1160 | 1030 | 910 | 790 | 670 | 600 | 490 | 390 |
| | | | | | 24 | 2-6 CL | 28 | 2180 | 1870 | 1700 | 1500 | 1330 | 1160 | 980 | 870 | 720 | 570 |
| 24 | 3-6 CL | 28 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 | | | | | |

STYLE JV4-ARDS - CLASSIC DOUBLE SLOPE



| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|--------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 7" |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | 7 3/8 |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | 7 3/16 |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | 7 3/16 |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | 7 5/16 |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | 7 5/16 |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | 7 5/16 |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | 7 1/2 |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | 7 1/4 |

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | 1.00 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 19-1/2 | 1 | - | 1220 | 1050 | 950 | 840 | 740 | 650 | 550 | 490 | 400 | 320 |
| | | | | | 25-1/2 | 1 | - | 1305 | 1120 | 1020 | 900 | 800 | 690 | 590 | 520 | 430 | 340 |
| | | | | | 25-1/2 | 2-6 CL | - | 1985 | 1710 | 1550 | 1370 | 1210 | 1050 | 890 | 790 | 660 | 520 |
| | | | | | 29-1/2 | 1 | - | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 |
| | | | | | 29-1/2 | 2-6 CL | - | 2080 | 1790 | 1620 | 1440 | 1270 | 1100 | 940 | 830 | 690 | 540 |
| | | | | | 29-1/2 | 3-6 CL | - | 2390 | 2060 | 1860 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 19-1/2 | 1 | - | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 |
| | | | | | 25-1/2 | 1 | - | 1570 | 1350 | 1220 | 1080 | 960 | 830 | 710 | 630 | 520 | 410 |
| | | | | | 25-1/2 | 2-6 CL | - | 2230 | 1920 | 1740 | 1540 | 1360 | 1180 | 1000 | 890 | 740 | 580 |
| | | | | | 29-1/2 | 1 | - | 1650 | 1420 | 1290 | 1140 | 1010 | 870 | 740 | 660 | 540 | 430 |
| | | | | | 29-1/2 | 2-6 CL | - | 2330 | 2000 | 1820 | 1610 | 1420 | 1230 | 1050 | 930 | 770 | 610 |
| | | | | | 29-1/2 | 3-6 CL | - | 2660 | 2290 | 2070 | 1840 | 1620 | 1410 | 1200 | 1060 | 880 | 690 |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 19-1/2 | 1 | - | 1590 | 1370 | 1240 | 1100 | 970 | 840 | 720 | 640 | 520 | 410 |
| | | | | | 25-1/2 | 1 | - | 1805 | 1550 | 1410 | 1250 | 1100 | 960 | 810 | 720 | 600 | 470 |
| | | | | | 25-1/2 | 2-6 CL | - | 2435 | 2090 | 1900 | 1680 | 1490 | 1290 | 1100 | 970 | 800 | 630 |
| | | | | | 29-1/2 | 1 | - | 1950 | 1680 | 1520 | 1350 | 1190 | 1030 | 880 | 780 | 640 | 510 |
| | | | | | 29-1/2 | 2-6 CL | - | 2685 | 2310 | 2090 | 1850 | 1640 | 1420 | 1210 | 1070 | 890 | 700 |
| | | | | | 29-1/2 | 3-6 CL | - | 3030 | 2610 | 2360 | 2090 | 1850 | 1610 | 1360 | 1210 | 1000 | 790 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 19-1/2 | 1 | - | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 |
| | | | | | 25-1/2 | 1 | - | 1400 | 1200 | 1090 | 970 | 850 | 740 | 630 | 560 | 460 | 360 |
| | | | | | 25-1/2 | 2-6 CL | - | 2160 | 1860 | 1680 | 1490 | 1320 | 1140 | 970 | 860 | 710 | 560 |
| | | | | | 29-1/2 | 1 | - | 1460 | 1260 | 1140 | 1010 | 890 | 770 | 660 | 580 | 480 | 380 |
| | | | | | 29-1/2 | 2-6 CL | - | 2235 | 1920 | 1740 | 1540 | 1360 | 1180 | 1010 | 890 | 740 | 580 |
| | | | | | 29-1/2 | 3-6 CL | - | 2570 | 2210 | 2000 | 1770 | 1570 | 1360 | 1160 | 1030 | 850 | 670 |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 19-1/2 | 1 | - | 1535 | 1320 | 1200 | 1060 | 940 | 810 | 690 | 610 | 510 | 400 |
| | | | | | 25-1/2 | 1 | - | 1640 | 1410 | 1280 | 1130 | 1000 | 870 | 740 | 660 | 540 | 430 |
| | | | | | 25-1/2 | 2-6 CL | - | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 |
| | | | | | 29-1/2 | 1 | - | 1720 | 1480 | 1340 | 1190 | 1050 | 910 | 770 | 690 | 570 | 450 |
| | | | | | 29-1/2 | 2-6 CL | - | 2390 | 2060 | 1860 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| | | | | | 29-1/2 | 3-6 CL | - | 2720 | 2340 | 2120 | 1880 | 1660 | 1440 | 1220 | 1090 | 900 | 710 |

STYLE JV4-ARDS - CLASSIC DOUBLE SLOPE

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 19-1/2 | 1 | - | 1665 | 1430 | 1300 | 1150 | 1020 | 880 | 750 | 670 | 550 | 430 |
| | | | | | 25-1/2 | 1 | - | 1880 | 1620 | 1470 | 1300 | 1150 | 1000 | 850 | 750 | 620 | 490 |
| | | | | | 25-1/2 | 2-6 CL | - | 2280 | 1960 | 1780 | 1570 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| | | | | | 29-1/2 | 1 | - | 2040 | 1750 | 1590 | 1410 | 1240 | 1080 | 920 | 820 | 670 | 530 |
| | | | | | 29-1/2 | 2-6 CL | - | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| | | | | | 29-1/2 | 3-6 CL | - | 2840 | 2440 | 2220 | 1960 | 1730 | 1510 | 1280 | 1140 | 940 | 740 |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 19-1/2 | 1 | - | 1250 | 1080 | 980 | 860 | 760 | 660 | 560 | 500 | 410 | 330 |
| | | | | | 25-1/2 | 1 | - | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |
| | | | | | 25-1/2 | 2-6 CL | - | 2040 | 1750 | 1590 | 1410 | 1240 | 1080 | 920 | 820 | 670 | 530 |
| | | | | | 29-1/2 | 1 | - | 1375 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 |
| | | | | | 29-1/2 | 2-6 CL | - | 2115 | 1820 | 1650 | 1460 | 1290 | 1120 | 950 | 850 | 700 | 550 |
| | | | | | 29-1/2 | 3-6 CL | - | 2430 | 2090 | 1900 | 1680 | 1480 | 1290 | 1090 | 970 | 800 | 630 |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 19-1/2 | 1 | - | 1500 | 1290 | 1170 | 1040 | 920 | 800 | 680 | 600 | 500 | 390 |
| | | | | | 25-1/2 | 1 | - | 1625 | 1400 | 1270 | 1120 | 990 | 860 | 730 | 650 | 540 | 420 |
| | | | | | 25-1/2 | 2-6 CL | - | 2255 | 1940 | 1760 | 1560 | 1380 | 1200 | 1010 | 900 | 740 | 590 |
| | | | | | 29-1/2 | 1 | - | 1685 | 1450 | 1310 | 1160 | 1030 | 890 | 760 | 670 | 560 | 440 |
| | | | | | 29-1/2 | 2-6 CL | - | 2340 | 2010 | 1830 | 1610 | 1430 | 1240 | 1050 | 940 | 770 | 610 |
| | | | | | 29-1/2 | 3-6 CL | - | 2670 | 2300 | 2080 | 1840 | 1630 | 1420 | 1200 | 1070 | 880 | 690 |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 19-1/2 | 1 | - | 1610 | 1380 | 1260 | 1110 | 980 | 850 | 720 | 640 | 530 | 420 |
| | | | | | 25-1/2 | 1 | - | 1840 | 1580 | 1440 | 1270 | 1120 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 25-1/2 | 2-6 CL | - | 2165 | 1860 | 1690 | 1490 | 1320 | 1150 | 970 | 870 | 710 | 560 |
| | | | | | 29-1/2 | 1 | - | 1960 | 1690 | 1530 | 1350 | 1200 | 1040 | 880 | 780 | 650 | 510 |
| | | | | | 29-1/2 | 2-6 CL | - | 2425 | 2090 | 1890 | 1670 | 1480 | 1290 | 1090 | 970 | 800 | 630 |
| | | | | | 29-1/2 | 3-6 CL | - | 2740 | 2360 | 2140 | 1890 | 1670 | 1450 | 1230 | 1100 | 900 | 710 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 19-1/2 | 1 | - | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |
| | | | | | 25-1/2 | 1 | - | 1415 | 1220 | 1100 | 980 | 860 | 750 | 640 | 570 | 470 | 370 |
| | | | | | 25-1/2 | 2-6 CL | - | 2180 | 1870 | 1700 | 1500 | 1330 | 1160 | 980 | 870 | 720 | 570 |
| | | | | | 29-1/2 | 1 | - | 1480 | 1270 | 1150 | 1020 | 900 | 780 | 670 | 590 | 490 | 380 |
| | | | | | 29-1/2 | 2-6 CL | - | 2280 | 1960 | 1780 | 1570 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| | | | | | 29-1/2 | 3-6 CL | - | 2620 | 2250 | 2040 | 1810 | 1600 | 1390 | 1180 | 1050 | 860 | 680 |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 19-1/2 | 1 | - | 1610 | 1380 | 1260 | 1110 | 980 | 850 | 720 | 640 | 530 | 420 |
| | | | | | 25-1/2 | 1 | - | 1730 | 1490 | 1350 | 1190 | 1060 | 920 | 780 | 690 | 570 | 450 |
| | | | | | 25-1/2 | 2-6 CL | - | 2430 | 2090 | 1900 | 1680 | 1480 | 1290 | 1090 | 970 | 800 | 630 |
| | | | | | 29-1/2 | 1 | - | 1800 | 1550 | 1400 | 1240 | 1100 | 950 | 810 | 720 | 590 | 470 |
| | | | | | 29-1/2 | 2-6 CL | - | 2540 | 2180 | 1980 | 1750 | 1550 | 1350 | 1140 | 1020 | 840 | 660 |
| | | | | | 29-1/2 | 3-6 CL | - | 2900 | 2490 | 2260 | 2000 | 1770 | 1540 | 1310 | 1160 | 960 | 750 |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 19-1/2 | 1 | - | 1650 | 1420 | 1290 | 1140 | 1010 | 870 | 740 | 660 | 540 | 430 |
| | | | | | 25-1/2 | 1 | - | 1770 | 1520 | 1380 | 1220 | 1080 | 940 | 800 | 710 | 580 | 460 |
| | | | | | 25-1/2 | 2-6 CL | - | 2440 | 2100 | 1900 | 1680 | 1490 | 1290 | 1100 | 980 | 810 | 630 |
| | | | | | 29-1/2 | 1 | - | 1990 | 1710 | 1550 | 1370 | 1210 | 1050 | 900 | 800 | 660 | 520 |
| | | | | | 29-1/2 | 2-6 CL | - | 2550 | 2190 | 1990 | 1760 | 1560 | 1350 | 1150 | 1020 | 840 | 660 |
| | | | | | 29-1/2 | 3-6 CL | - | 2880 | 2480 | 2250 | 1990 | 1760 | 1530 | 1300 | 1150 | 950 | 750 |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 19-1/2 | 1 | - | 1425 | 1230 | 1110 | 980 | 870 | 760 | 640 | 570 | 470 | 370 |
| | | | | | 25-1/2 | 1 | - | 1500 | 1290 | 1170 | 1040 | 920 | 800 | 680 | 600 | 500 | 390 |
| | | | | | 25-1/2 | 2-6 CL | - | 2235 | 1920 | 1740 | 1540 | 1360 | 1180 | 1010 | 890 | 740 | 580 |
| | | | | | 29-1/2 | 1 | - | 1565 | 1350 | 1220 | 1080 | 950 | 830 | 700 | 630 | 520 | 410 |
| | | | | | 29-1/2 | 2-6 CL | - | 2445 | 2100 | 1910 | 1690 | 1490 | 1300 | 1100 | 980 | 810 | 640 |
| | | | | | 29-1/2 | 3-6 CL | - | 2810 | 2420 | 2190 | 1940 | 1710 | 1490 | 1260 | 1120 | 930 | 730 |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 19-1/2 | 1 | - | 1625 | 1400 | 1270 | 1120 | 990 | 860 | 730 | 650 | 540 | 420 |
| | | | | | 25-1/2 | 1 | - | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 |
| | | | | | 25-1/2 | 2-6 CL | - | 2325 | 2000 | 1810 | 1600 | 1420 | 1230 | 1050 | 930 | 770 | 600 |
| | | | | | 29-1/2 | 1 | - | 1850 | 1590 | 1440 | 1280 | 1130 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 29-1/2 | 2-6 CL | - | 2520 | 2170 | 1970 | 1740 | 1540 | 1340 | 1130 | 1010 | 830 | 660 |
| | | | | | 29-1/2 | 3-6 CL | - | 2870 | 2470 | 2240 | 1980 | 1750 | 1520 | 1290 | 1150 | 950 | 750 |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 19-1/2 | 1 | - | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 |
| | | | | | 25-1/2 | 1 | - | 2020 | 1740 | 1580 | 1390 | 1230 | 1070 | 910 | 810 | 670 | 530 |
| | | | | | 25-1/2 | 2-6 CL | - | 2315 | 1990 | 1810 | 1600 | 1410 | 1230 | 1040 | 930 | 760 | 600 |
| | | | | | 29-1/2 | 1 | - | 2165 | 1860 | 1690 | 1490 | 1320 | 1150 | 970 | 870 | 710 | 560 |
| | | | | | 29-1/2 | 2-6 CL | - | 2590 | 2230 | 2020 | 1790 | 1580 | 1370 | 1170 | 1040 | 850 | 670 |
| | | | | | 29-1/2 | 3-6 CL | - | 2930 | 2520 | 2290 | 2020 | 1790 | 1550 | 1320 | 1170 | 970 | 760 |

STYLE JV4-ARDS - CLASSIC DOUBLE SLOPE

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 19-1/2 | 1 | - | 1400 | 1200 | 1090 | 970 | 850 | 740 | 630 | 560 | 460 | 360 |
| | | | | | 25-1/2 | 1 | - | 1475 | 1270 | 1150 | 1020 | 900 | 780 | 660 | 590 | 490 | 380 |
| | | | | | 25-1/2 | 2-6 CL | - | 2195 | 1890 | 1710 | 1510 | 1340 | 1160 | 990 | 880 | 720 | 570 |
| | | | | | 29-1/2 | 1 | - | 1530 | 1320 | 1190 | 1060 | 930 | 810 | 690 | 610 | 500 | 400 |
| | | | | | 29-1/2 | 2-6 CL | - | 2400 | 2060 | 1870 | 1660 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| | | | | | 29-1/2 | 3-6 CL | - | 2760 | 2370 | 2150 | 1900 | 1680 | 1460 | 1240 | 1100 | 910 | 720 |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 19-1/2 | 1 | - | 1600 | 1380 | 1250 | 1100 | 980 | 850 | 720 | 640 | 530 | 420 |
| | | | | | 25-1/2 | 1 | - | 1725 | 1480 | 1350 | 1190 | 1050 | 910 | 780 | 690 | 570 | 450 |
| | | | | | 25-1/2 | 2-6 CL | - | 2280 | 1960 | 1780 | 1570 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| | | | | | 29-1/2 | 1 | - | 1815 | 1560 | 1420 | 1250 | 1110 | 960 | 820 | 730 | 600 | 470 |
| | | | | | 29-1/2 | 2-6 CL | - | 2480 | 2130 | 1930 | 1710 | 1510 | 1310 | 1120 | 990 | 820 | 640 |
| | | | | | 29-1/2 | 3-6 CL | - | 2830 | 2430 | 2210 | 1950 | 1730 | 1500 | 1270 | 1130 | 930 | 740 |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 19-1/2 | 1 | - | 1745 | 1500 | 1360 | 1200 | 1060 | 920 | 790 | 700 | 580 | 450 |
| | | | | | 25-1/2 | 1 | - | 1985 | 1710 | 1550 | 1370 | 1210 | 1050 | 890 | 790 | 660 | 520 |
| | | | | | 25-1/2 | 2-6 CL | - | 2270 | 1950 | 1770 | 1570 | 1380 | 1200 | 1020 | 910 | 750 | 590 |
| | | | | | 29-1/2 | 1 | - | 2135 | 1840 | 1670 | 1470 | 1300 | 1130 | 960 | 850 | 700 | 560 |
| | | | | | 29-1/2 | 2-6 CL | - | 2545 | 2190 | 1990 | 1760 | 1550 | 1350 | 1150 | 1020 | 840 | 660 |
| | | | | | 29-1/2 | 3-6 CL | - | 2880 | 2480 | 2250 | 1990 | 1760 | 1530 | 1300 | 1150 | 950 | 750 |

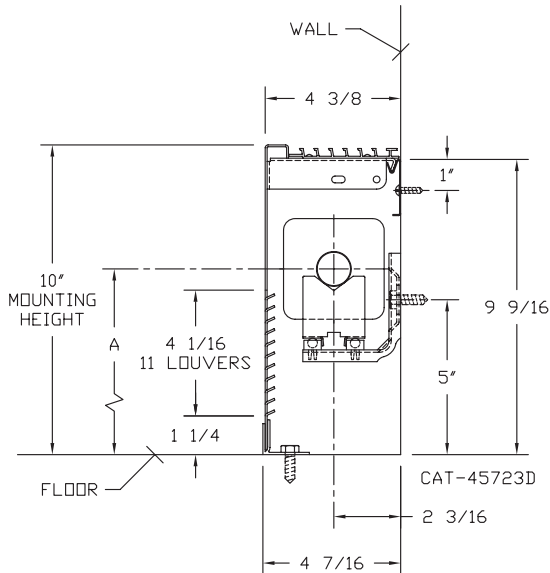
STYLE JV4-ARDS - CLASSIC DOUBLE SLOPE

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 19-1/2 | 1 | - | 1215 | 1040 | 950 | 840 | 740 | 640 | 550 | 490 | 400 | 320 | |
| | | | | | 25-1/2 | 1 | - | 1255 | 1080 | 980 | 870 | 770 | 670 | 560 | 500 | 410 | 330 | |
| | | | | | 25-1/2 | 2-6 CL | - | 1980 | 1700 | 1540 | 1370 | 1210 | 1050 | 890 | 790 | 650 | 510 | |
| | | | | | 29-1/2 | 1 | - | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 | |
| | | | | | 29-1/2 | 2-6 CL | - | 2045 | 1760 | 1600 | 1410 | 1250 | 1080 | 920 | 820 | 670 | 530 | |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 19-1/2 | 1 | - | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 | |
| | | | | | 25-1/2 | 1 | - | 1445 | 1240 | 1130 | 1000 | 880 | 770 | 650 | 580 | 480 | 380 | |
| | | | | | 25-1/2 | 2-6 CL | - | 2140 | 1840 | 1670 | 1480 | 1310 | 1130 | 960 | 860 | 710 | 560 | |
| | | | | | 29-1/2 | 1 | - | 1495 | 1290 | 1170 | 1030 | 910 | 790 | 670 | 600 | 490 | 390 | |
| | | | | | 29-1/2 | 2-6 CL | - | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 | |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 19-1/2 | 1 | - | 1425 | 1230 | 1110 | 980 | 870 | 760 | 640 | 570 | 470 | 370 | |
| | | | | | 25-1/2 | 1 | - | 1515 | 1300 | 1180 | 1050 | 920 | 800 | 680 | 610 | 500 | 390 | |
| | | | | | 25-1/2 | 2-6 CL | - | 2190 | 1880 | 1710 | 1510 | 1340 | 1160 | 990 | 880 | 720 | 570 | |
| | | | | | 29-1/2 | 1 | - | 1570 | 1350 | 1220 | 1080 | 960 | 830 | 710 | 630 | 520 | 410 | |
| | | | | | 29-1/2 | 2-6 CL | - | 2295 | 1970 | 1790 | 1580 | 1400 | 1220 | 1030 | 920 | 760 | 600 | |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 19-1/2 | 1 | - | 1120 | 960 | 870 | 770 | 680 | 590 | 500 | 450 | 370 | 290 | |
| | | | | | 25-1/2 | 1 | - | 1190 | 1020 | 930 | 820 | 730 | 630 | 540 | 480 | 390 | 310 | |
| | | | | | 25-1/2 | 2-6 CL | - | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 | |
| | | | | | 29-1/2 | 1 | - | 1250 | 1080 | 980 | 860 | 760 | 660 | 560 | 500 | 410 | 330 | |
| | | | | | 29-1/2 | 2-6 CL | - | 1880 | 1620 | 1470 | 1300 | 1150 | 1000 | 850 | 750 | 620 | 490 | |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 19-1/2 | 1 | - | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 | |
| | | | | | 25-1/2 | 1 | - | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 | |
| | | | | | 25-1/2 | 2-6 CL | - | 2090 | 1800 | 1630 | 1440 | 1270 | 1110 | 940 | 840 | 690 | 540 | |
| | | | | | 29-1/2 | 1 | - | 1560 | 1340 | 1220 | 1080 | 950 | 830 | 700 | 620 | 510 | 410 | |
| | | | | | 29-1/2 | 2-6 CL | - | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 | |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 19-1/2 | 1 | - | 1415 | 1220 | 1100 | 980 | 860 | 750 | 640 | 570 | 470 | 370 | |
| | | | | | 25-1/2 | 1 | - | 1505 | 1290 | 1170 | 1040 | 920 | 800 | 680 | 600 | 500 | 390 | |
| | | | | | 25-1/2 | 2-6 CL | - | 2150 | 1850 | 1680 | 1480 | 1310 | 1140 | 970 | 860 | 710 | 560 | |
| | | | | | 29-1/2 | 1 | - | 1555 | 1340 | 1210 | 1070 | 950 | 820 | 700 | 620 | 510 | 400 | |
| | | | | | 29-1/2 | 2-6 CL | - | 2250 | 1940 | 1760 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 590 | |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 19-1/2 | 1 | - | 1050 | 900 | 820 | 720 | 640 | 560 | 470 | 420 | 350 | 270 | |
| | | | | | 25-1/2 | 1 | - | 1110 | 950 | 870 | 770 | 680 | 590 | 500 | 440 | 370 | 290 | |
| | | | | | 25-1/2 | 2-6 CL | - | 1670 | 1440 | 1300 | 1150 | 1020 | 890 | 750 | 670 | 550 | 430 | |
| | | | | | 29-1/2 | 1 | - | 1170 | 1010 | 910 | 810 | 710 | 620 | 530 | 470 | 390 | 300 | |
| | | | | | 29-1/2 | 2-6 CL | - | 1770 | 1520 | 1380 | 1220 | 1080 | 940 | 800 | 710 | 580 | 460 | |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 19-1/2 | 1 | - | 1220 | 1050 | 950 | 840 | 740 | 650 | 550 | 490 | 400 | 320 | |
| | | | | | 25-1/2 | 1 | - | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 | |
| | | | | | 25-1/2 | 2-6 CL | - | 1930 | 1660 | 1510 | 1330 | 1180 | 1020 | 870 | 770 | 640 | 500 | |
| | | | | | 29-1/2 | 1 | - | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 | |
| | | | | | 29-1/2 | 2-6 CL | - | 2040 | 1750 | 1590 | 1410 | 1240 | 1080 | 920 | 820 | 670 | 530 | |
| 2" | | | | | 19-1/2 | 1 | - | 1220 | 1050 | 950 | 840 | 740 | 650 | 550 | 490 | 400 | 320 | |
| | | | | | 29-1/2 | 3-6 CL | - | 2350 | 2020 | 1830 | 1620 | 1430 | 1250 | 1060 | 940 | 780 | 610 | |

STYLES V3 JV3 "AR" CLASSIC LOUVERED INLET "LI"



Styles V3 and JV3-AR10LI

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|---------|
| 3/4 COPPER | 3 1/4 x 3 1/4 | 2 | 5 13/16 |
| 1" COPPER | 3 1/4 x 3 1/4 | 2 | 6" |
| 1 1/4 COPPER | 3 1/4 x 3 1/4 | 1 | 5 7/16 |
| 1" STEEL | 3 1/4 x 3 1/4 | 2 | 6 1/8 |
| 1 1/4 STEEL | 3 1/4 x 3 1/4 | 1 | 5 5/8 |

STYLES V3 AND JV3-AR10LI

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

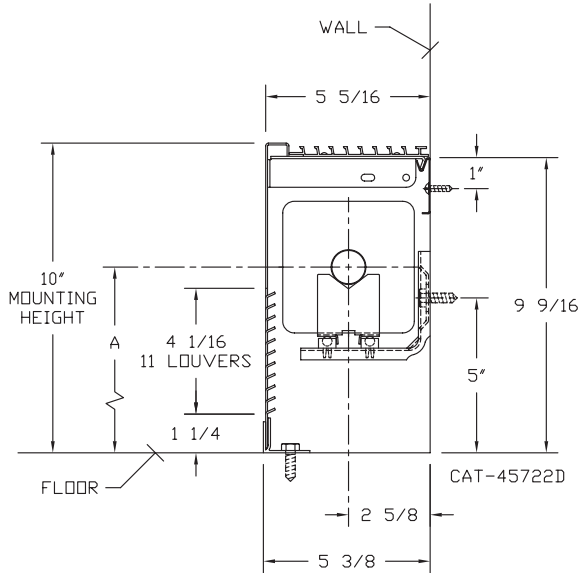
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 3/4" | VC3/4-33 | 3-1/4" SQ. | 32 | .020 | 10 | 1 | 10 | 780 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-34 | 3-1/4" SQ. | 40 | .020 | 10 | 1 | 10 | 950 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-35 | 3-1/4" SQ. | 50 | .020 | 10 | 1 | 10 | 960 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VC33 | 3-1/4" SQ. | 32 | .020 | 10 | 1 | 10 | 800 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VC34 | 3-1/4" SQ. | 40 | .020 | 10 | 1 | 10 | 920 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VC35 | 3-1/4" SQ. | 50 | .020 | 10 | 1 | 10 | 930 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1 1/4" | VC133 | 3-1/4" SQ. | 32 | .020 | 10 | 1 | 10 | 770 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1 1/4" | VC134 | 3-1/4" SQ. | 40 | .020 | 10 | 1 | 10 | 880 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1 1/4" | VC135 | 3-1/4" SQ. | 50 | .020 | 10 | 1 | 10 | 890 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 1" | VS33 | 3-1/4" SQ. | 32 | .032 | 10 | 1 | 10 | 740 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS34 | 3-1/4" SQ. | 40 | .032 | 10 | 1 | 10 | 815 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS35 | 3-1/4" SQ. | 50 | .032 | 10 | 1 | 10 | 855 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1-1/4" | VS133 | 3-1/4" SQ. | 32 | .032 | 10 | 1 | 10 | 730 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1-1/4" | VS134 | 3-1/4" SQ. | 40 | .032 | 10 | 1 | 10 | 825 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1-1/4" | VS135 | 3-1/4" SQ. | 50 | .032 | 10 | 1 | 10 | 840 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |

STYLES V4 AND JV4 "AR" CLASSIC LOUVERED INLET "LI"



Styles V4 and JV4-AR10LI

Accessories

V4 – Underlapping Reveal Type
JV4 – Overlapping Type

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|---------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 5 13/16 |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | 6 3/16 |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | 6" |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | 6" |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | 6 1/8 |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | 6 1/8 |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | 6 1/8 |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | 6 5/16 |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | 6 1/8 |

STYLES V4 AND JV4-AR10LI

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

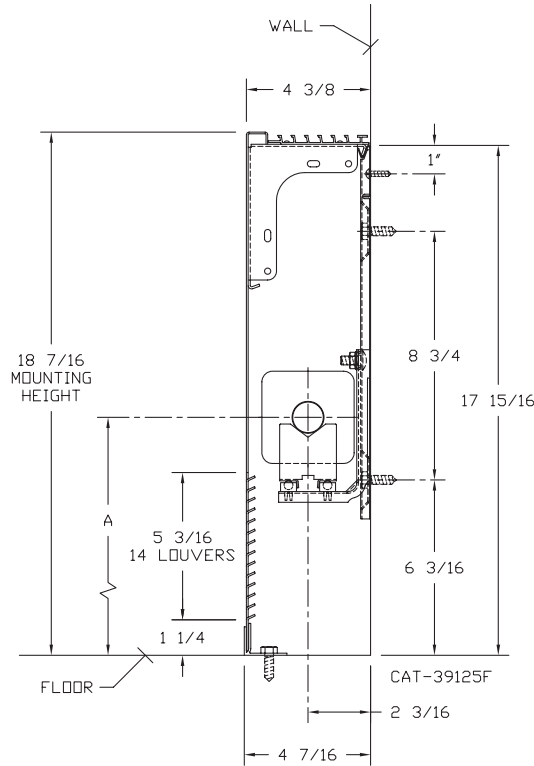
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 10 | 1 | 10 | 1020 | 880 | 800 | 700 | 620 | 540 | 460 | 410 | 340 | 270 |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 10 | 1 | 10 | 1180 | 1010 | 920 | 810 | 720 | 630 | 530 | 470 | 390 | 310 |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 10 | 1 | 10 | 1255 | 1080 | 980 | 870 | 770 | 670 | 560 | 500 | 410 | 330 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 10 | 1 | 10 | 1090 | 940 | 850 | 750 | 660 | 560 | 490 | 440 | 360 | 280 |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 10 | 1 | 10 | 1200 | 1030 | 940 | 830 | 730 | 640 | 540 | 480 | 400 | 310 |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 10 | 1 | 10 | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 10 | 1 | 10 | 1070 | 920 | 830 | 740 | 650 | 570 | 480 | 430 | 350 | 280 |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 10 | 1 | 10 | 1180 | 1010 | 920 | 810 | 720 | 630 | 530 | 470 | 390 | 310 |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 10 | 1 | 10 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 10 | 1 | 10 | 1190 | 1020 | 930 | 820 | 730 | 630 | 540 | 480 | 390 | 310 |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 10 | 1 | 10 | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 10 | 1 | 10 | 1310 | 1130 | 1020 | 900 | 800 | 690 | 590 | 520 | 430 | 340 |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 10 | 1 | 10 | 1200 | 1030 | 940 | 830 | 730 | 640 | 540 | 480 | 400 | 310 |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 10 | 1 | 10 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 10 | 1 | 10 | 1340 | 1150 | 1050 | 920 | 820 | 710 | 600 | 540 | 440 | 350 |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 10 | 1 | 10 | 1170 | 1010 | 910 | 810 | 710 | 620 | 530 | 470 | 390 | 300 |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 10 | 1 | 10 | 1300 | 1120 | 1010 | 900 | 790 | 690 | 590 | 520 | 430 | 340 |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 10 | 1 | 10 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 10 | 1 | 10 | 1045 | 900 | 820 | 720 | 640 | 550 | 470 | 420 | 340 | 270 |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 10 | 1 | 10 | 1140 | 980 | 890 | 790 | 700 | 600 | 510 | 460 | 380 | 300 |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 10 | 1 | 10 | 1225 | 1050 | 960 | 850 | 750 | 650 | 550 | 490 | 400 | 320 |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 10 | 1 | 10 | 960 | 830 | 750 | 660 | 590 | 510 | 430 | 380 | 320 | 250 |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 10 | 1 | 10 | 1150 | 990 | 900 | 790 | 700 | 610 | 520 | 460 | 380 | 300 |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 10 | 1 | 10 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 10 | 1 | 10 | 905 | 780 | 710 | 620 | 550 | 480 | 410 | 360 | 300 | 240 |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 10 | 1 | 10 | 1075 | 920 | 840 | 740 | 660 | 570 | 480 | 430 | 350 | 280 |

STYLES V3 AND JV3-AR18LI



Styles V3 and JV3-AR18LI

Accessories

V3, V4 – Underlapping Reveal Type
 V3, JV4 – Overlapping Type

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A MIN | A MAX |
|-------------------|-------------------------|---------------|--------|--------|
| 3/4" COPPER | 3 1/4 x 3 1/4 | 2 | 7" | 9 1/2" |
| 1" COPPER | 3 1/4 x 3 1/4 | 2 | 7 1/4" | 9 5/8" |
| 1 1/4" COPPER | 3 1/4 x 3 1/4 | 1 | 7" | 9 1/8" |
| 1" STEEL | 3 1/4 x 3 1/4 | 2 | 7 1/4" | 9 3/4" |
| 1 1/4" STEEL | 3 1/4 x 3 1/4 | 1 | 7" | 9 1/4" |

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

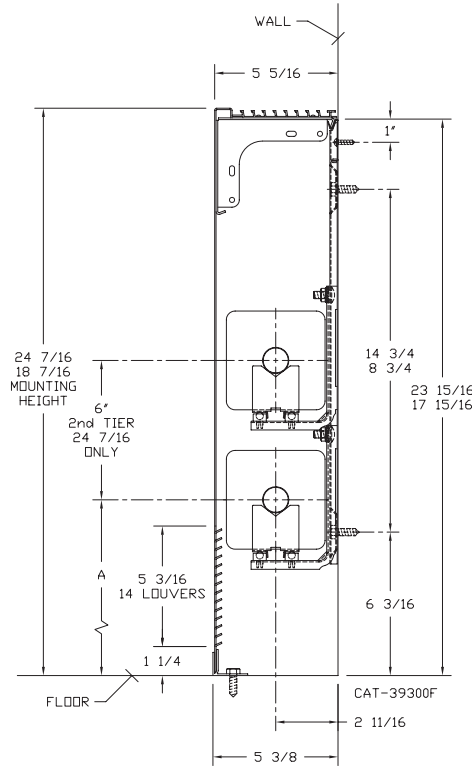
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 3/4" | VC3/4-33 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1050 | 900 | 820 | 720 | 640 | 560 | 470 | 420 | 350 | 270 |
| 3/4" | VC3/4-34 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1230 | 1060 | 960 | 850 | 750 | 650 | 550 | 490 | 410 | 320 |
| 3/4" | VC3/4-35 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 |
| 1" | VC33 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| 1" | VC34 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| 1" | VC35 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |
| 1 1/4" | VC133 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 960 | 830 | 750 | 660 | 590 | 510 | 430 | 380 | 320 | 250 |
| 1 1/4" | VC134 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| 1 1/4" | VC135 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 1" | VS33 | 3-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 880 | 760 | 690 | 610 | 540 | 470 | 400 | 350 | 290 | 230 |
| 1" | VS34 | 3-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 970 | 830 | 760 | 670 | 590 | 510 | 440 | 390 | 320 | 250 |
| 1" | VS35 | 3-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1040 | 890 | 810 | 720 | 630 | 550 | 470 | 420 | 340 | 270 |
| 1-1/4" | VS133 | 3-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 870 | 750 | 680 | 600 | 530 | 460 | 390 | 350 | 290 | 230 |
| 1-1/4" | VS134 | 3-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 980 | 840 | 760 | 680 | 600 | 520 | 440 | 390 | 320 | 250 |
| 1-1/4" | VS135 | 3-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1020 | 880 | 800 | 700 | 620 | 540 | 460 | 410 | 340 | 270 |

STYLES V4 AND JV4-AR18 24LI



Styles V4 and JV4-AR18 24LI

Accessories

V3, V4 – Underlapping Reveal Type
JV3, JV4 – Overlapping Type

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A MIN | A MAX |
|-------------------|-------------------------|---------------|-------|---------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 8' | 8 11/16 |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | | 9 1/16 |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | | 8 13/16 |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | | 8 13/16 |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | | 9' |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | | 9' |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | | 8 15/16 |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | | 9 3/16 |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | | 8 15/16 |

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1400 | 1200 | 1090 | 970 | 850 | 740 | 630 | 560 | 460 | 360 | |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2220 | 1910 | 1730 | 1530 | 1350 | 1180 | 1000 | 890 | 730 | 580 | |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1620 | 1390 | 1260 | 1120 | 990 | 860 | 730 | 650 | 530 | 420 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1710 | 1470 | 1330 | 1180 | 1040 | 910 | 770 | 680 | 560 | 440 | |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2390 | 2060 | 1860 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 | |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1940 | 1670 | 1510 | 1340 | 1180 | 1030 | 870 | 780 | 640 | 500 | |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2400 | 2060 | 1870 | 1660 | 1460 | 1270 | 1080 | 960 | 790 | 620 | |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1410 | 1210 | 1100 | 970 | 860 | 750 | 630 | 560 | 470 | 370 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1450 | 1250 | 1130 | 1000 | 880 | 770 | 650 | 580 | 480 | 380 | |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2320 | 2000 | 1810 | 1600 | 1420 | 1230 | 1040 | 930 | 770 | 600 | |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1690 | 1450 | 1320 | 1170 | 1030 | 900 | 760 | 680 | 560 | 440 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1800 | 1550 | 1400 | 1240 | 1100 | 950 | 810 | 720 | 590 | 470 | |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 | |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1850 | 1590 | 1440 | 1280 | 1130 | 980 | 830 | 740 | 610 | 480 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2030 | 1750 | 1580 | 1400 | 1240 | 1080 | 910 | 810 | 670 | 530 | |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 | |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1420 | 1220 | 1110 | 980 | 870 | 750 | 640 | 570 | 470 | 370 | |
| | | | | | 24-7/16 | 2 @ 6 CL | 24-7/16 | 2280 | 1960 | 1780 | 1570 | 1390 | 1210 | 1030 | 910 | 750 | 590 | |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1660 | 1430 | 1290 | 1150 | 1010 | 880 | 750 | 660 | 550 | 430 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 | |
| | | | | | 24-7/16 | 2 @ 6 CL | 24-7/16 | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 | |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 | |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1920 | 1650 | 1500 | 1320 | 1170 | 1020 | 860 | 770 | 630 | 500 | |
| | | | | | 24-7/16 | 2 @ 6 CL | 24-7/16 | 2370 | 2040 | 1850 | 1640 | 1450 | 1260 | 1070 | 950 | 780 | 620 | |

STYLES V4 AND JV4-AR18 24LI

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

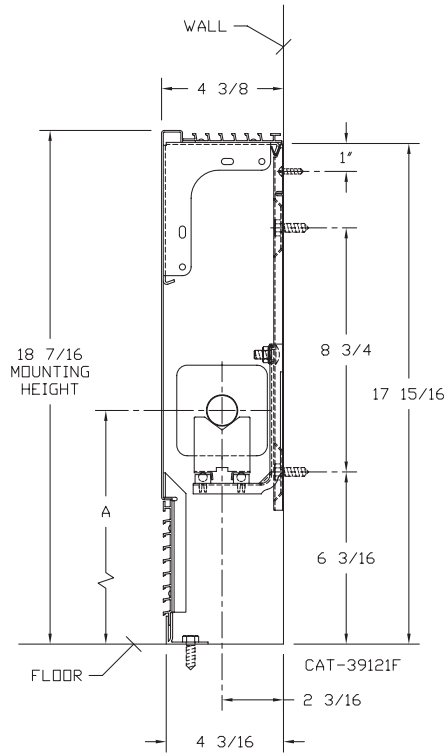
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2310 | 1990 | 1800 | 1590 | 1410 | 1220 | 1040 | 920 | 760 | 600 |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1840 | 1580 | 1440 | 1270 | 1120 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1950 | 1680 | 1520 | 1350 | 1190 | 1030 | 880 | 780 | 640 | 510 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2360 | 2030 | 1840 | 1630 | 1440 | 1250 | 1060 | 940 | 780 | 610 |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1870 | 1610 | 1460 | 1290 | 1140 | 990 | 840 | 750 | 620 | 490 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2050 | 1760 | 1600 | 1410 | 1250 | 1090 | 920 | 820 | 680 | 530 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2480 | 2130 | 1930 | 1710 | 1510 | 1310 | 1120 | 990 | 820 | 640 |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2340 | 2010 | 1830 | 1610 | 1430 | 1240 | 1050 | 940 | 770 | 610 |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1720 | 1480 | 1340 | 1190 | 1050 | 910 | 770 | 690 | 570 | 450 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1810 | 1560 | 1410 | 1250 | 1100 | 960 | 810 | 720 | 600 | 470 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1900 | 1630 | 1480 | 1310 | 1160 | 1010 | 860 | 760 | 630 | 490 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2090 | 1800 | 1630 | 1440 | 1270 | 1110 | 940 | 840 | 690 | 540 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1510 | 1300 | 1180 | 1040 | 920 | 800 | 680 | 600 | 500 | 390 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1690 | 1450 | 1320 | 1170 | 1030 | 900 | 760 | 680 | 560 | 440 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1870 | 1610 | 1460 | 1290 | 1140 | 990 | 840 | 750 | 620 | 490 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2050 | 1760 | 1600 | 1410 | 1250 | 1090 | 920 | 820 | 680 | 530 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2080 | 1790 | 1620 | 1440 | 1270 | 1100 | 940 | 830 | 690 | 540 |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1530 | 1320 | 1190 | 1060 | 930 | 810 | 690 | 610 | 500 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2330 | 2000 | 1820 | 1610 | 1420 | 1230 | 1050 | 930 | 770 | 610 |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1490 | 1280 | 1160 | 1030 | 910 | 790 | 670 | 600 | 490 | 390 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1565 | 1350 | 1220 | 1080 | 950 | 830 | 700 | 630 | 520 | 410 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2285 | 1970 | 1780 | 1580 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 1110 | 950 | 870 | 770 | 680 | 590 | 500 | 440 | 370 | 290 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1170 | 1010 | 910 | 810 | 710 | 620 | 530 | 470 | 390 | 300 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 1910 | 1640 | 1490 | 1320 | 1170 | 1010 | 860 | 760 | 630 | 500 |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 1430 | 1230 | 1120 | 990 | 870 | 760 | 640 | 570 | 470 | 370 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1520 | 1310 | 1190 | 1050 | 930 | 810 | 680 | 610 | 500 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1460 | 1260 | 1140 | 1010 | 890 | 770 | 660 | 580 | 480 | 380 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1535 | 1320 | 1200 | 1060 | 940 | 810 | 690 | 610 | 510 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 18-7/16 | 1 | 18-7/16 | 1090 | 940 | 850 | 750 | 660 | 580 | 490 | 440 | 360 | 280 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 1830 | 1570 | 1430 | 1260 | 1120 | 970 | 820 | 730 | 600 | 480 |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2030 | 1750 | 1580 | 1400 | 1240 | 1080 | 910 | 810 | 670 | 530 |

STYLES V3 AND JV3 "AR" CLASSIC EXTRUDED INLET "EI"



Styles V3 and JV3-AR18EI

Accessories

V3, V4 – Underlapping Reveal Type
JV3, JV4 – Overlapping Type

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A MIN | A MAX |
|-------------------|-------------------------|---------------|--------|--------|
| 3/4" COPPER | 3 1/4 x 3 1/4 | 2 | 7" | 9 1/2" |
| 1" COPPER | 3 1/4 x 3 1/4 | 2 | 7 1/4" | 9 5/8" |
| 1 1/4" COPPER | 3 1/4 x 3 1/4 | 1 | 7" | 9 1/8" |
| 1" STEEL | 3 1/4 x 3 1/4 | 2 | 7 1/4" | 9 3/4" |
| 1 1/4" STEEL | 3 1/4 x 3 1/4 | 1 | 7" | 9 1/4" |

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-33 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1050 | 900 | 820 | 720 | 640 | 560 | 470 | 420 | 350 | 270 | |
| 3/4" | VC3/4-34 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1230 | 1060 | 960 | 850 | 750 | 650 | 550 | 490 | 410 | 320 | |
| 3/4" | VC3/4-35 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 | |
| 1" | VC33 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 | |
| 1" | VC34 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 | |
| 1" | VC35 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 | |
| 1 1/4" | VC133 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 960 | 830 | 750 | 660 | 590 | 510 | 430 | 380 | 320 | 250 | |
| 1 1/4" | VC134 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 | |
| 1 1/4" | VC135 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 | |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

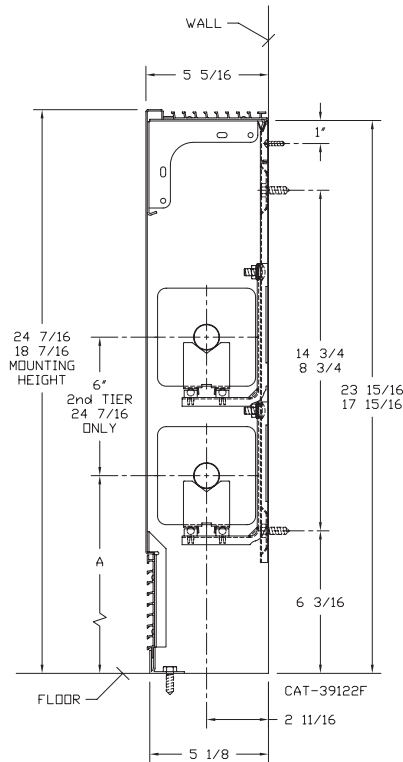
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS33 | 3-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 880 | 760 | 690 | 610 | 540 | 470 | 400 | 350 | 290 | 230 | |
| 1" | VS34 | 3-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 970 | 830 | 760 | 670 | 590 | 510 | 440 | 390 | 320 | 250 | |
| 1" | VS35 | 3-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1040 | 890 | 810 | 720 | 630 | 550 | 470 | 420 | 340 | 270 | |
| 1-1/4" | VS133 | 3-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 870 | 750 | 680 | 600 | 530 | 460 | 390 | 350 | 290 | 230 | |
| 1-1/4" | VS134 | 3-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 980 | 840 | 760 | 680 | 600 | 520 | 440 | 390 | 320 | 250 | |
| 1-1/4" | VS135 | 3-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1020 | 880 | 800 | 700 | 620 | 540 | 460 | 410 | 340 | 270 | |

STYLES V4 AND JV4 "AR" CLASSIC EXTRUDED INLET "EI"

Styles V4 and JV4-AR18 24EI

Accessories

V3, V4 – Underlapping Reveal Type
JV3, JV4 – Overlapping Type



| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A MIN | A MAX |
|-------------------|-------------------------|---------------|-------|---------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 8" | 8 11/16 |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | | 9 1/16 |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | | 8 13/16 |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | | 8 13/16 |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | | 9" |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | | 9" |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | | 8 15/16 |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | | 9 3/16 |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | | 8 15/16 |

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1400 | 1200 | 1090 | 970 | 850 | 740 | 630 | 560 | 460 | 360 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2220 | 1910 | 1730 | 1530 | 1350 | 1180 | 1000 | 890 | 730 | 580 |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1620 | 1390 | 1260 | 1120 | 990 | 860 | 730 | 650 | 530 | 420 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1710 | 1470 | 1330 | 1180 | 1040 | 910 | 770 | 680 | 560 | 440 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2390 | 2060 | 1860 | 1650 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1940 | 1670 | 1510 | 1340 | 1180 | 1030 | 870 | 780 | 640 | 500 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2400 | 2060 | 1870 | 1660 | 1460 | 1270 | 1080 | 960 | 790 | 620 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1410 | 1210 | 1100 | 970 | 860 | 750 | 630 | 560 | 470 | 370 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1450 | 1250 | 1130 | 1000 | 880 | 770 | 650 | 580 | 480 | 380 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2320 | 2000 | 1810 | 1600 | 1420 | 1230 | 1040 | 930 | 770 | 600 |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1690 | 1450 | 1320 | 1170 | 1030 | 900 | 760 | 680 | 560 | 440 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1800 | 1550 | 1400 | 1240 | 1100 | 950 | 810 | 720 | 590 | 470 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1850 | 1590 | 1440 | 1280 | 1130 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2030 | 1750 | 1580 | 1400 | 1240 | 1080 | 910 | 810 | 670 | 530 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1420 | 1220 | 1110 | 980 | 870 | 750 | 640 | 570 | 470 | 370 |
| | | | | | 24-7/16 | 2 @ 6 CL | 24-7/16 | 2280 | 1960 | 1780 | 1570 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1660 | 1430 | 1290 | 1150 | 1010 | 880 | 750 | 660 | 550 | 430 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 |
| | | | | | 24-7/16 | 2 @ 6 CL | 24-7/16 | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1760 | 1510 | 1370 | 1210 | 1070 | 930 | 790 | 700 | 580 | 460 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1920 | 1650 | 1500 | 1320 | 1170 | 1020 | 860 | 770 | 630 | 500 |
| | | | | | 24-7/16 | 2 @ 6 CL | 24-7/16 | 2370 | 2040 | 1850 | 1640 | 1450 | 1260 | 1070 | 950 | 780 | 620 |

STYLES V4 AND JV4-AR 18 24EI

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

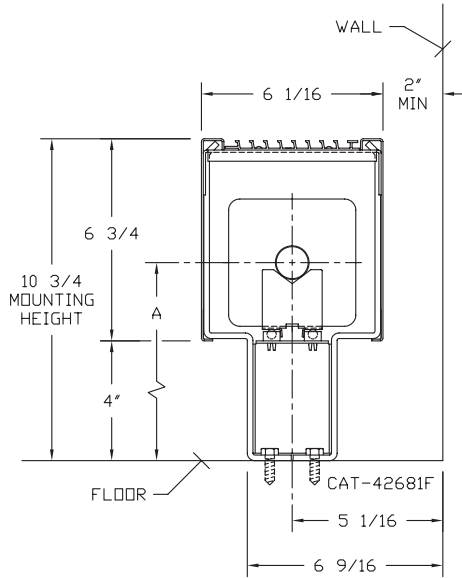
| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2310 | 1990 | 1800 | 1590 | 1410 | 1220 | 1040 | 920 | 760 | 600 |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1840 | 1580 | 1440 | 1270 | 1120 | 980 | 830 | 740 | 610 | 480 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1950 | 1680 | 1520 | 1350 | 1190 | 1030 | 880 | 780 | 640 | 510 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2360 | 2030 | 1840 | 1630 | 1440 | 1250 | 1060 | 940 | 780 | 610 |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1870 | 1610 | 1460 | 1290 | 1140 | 990 | 840 | 750 | 620 | 490 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2050 | 1760 | 1600 | 1410 | 1250 | 1090 | 920 | 820 | 680 | 530 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2480 | 2130 | 1930 | 1710 | 1510 | 1310 | 1120 | 990 | 820 | 640 |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2340 | 2010 | 1830 | 1610 | 1430 | 1240 | 1050 | 940 | 770 | 610 |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1720 | 1480 | 1340 | 1190 | 1050 | 910 | 770 | 690 | 570 | 450 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1810 | 1560 | 1410 | 1250 | 1100 | 960 | 810 | 720 | 600 | 470 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1900 | 1630 | 1480 | 1310 | 1160 | 1010 | 860 | 760 | 630 | 490 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2090 | 1800 | 1630 | 1440 | 1270 | 1110 | 940 | 840 | 690 | 540 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2510 | 2160 | 1960 | 1730 | 1530 | 1330 | 1130 | 1000 | 830 | 650 |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1510 | 1300 | 1180 | 1040 | 920 | 800 | 680 | 600 | 500 | 390 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1690 | 1450 | 1320 | 1170 | 1030 | 900 | 760 | 680 | 560 | 440 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1780 | 1530 | 1390 | 1230 | 1090 | 940 | 800 | 710 | 590 | 460 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1870 | 1610 | 1460 | 1290 | 1140 | 990 | 840 | 750 | 620 | 490 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 2050 | 1760 | 1600 | 1410 | 1250 | 1090 | 920 | 820 | 680 | 530 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2460 | 2120 | 1920 | 1700 | 1500 | 1300 | 1110 | 980 | 810 | 640 |

STEEL ELEMENT RATINGS

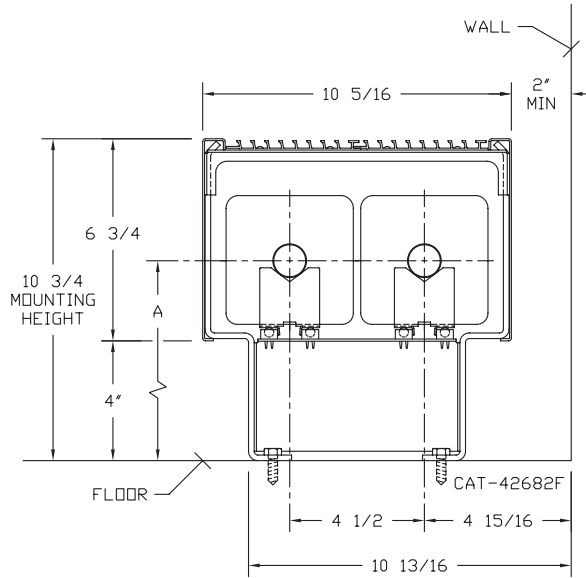
ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2080 | 1790 | 1620 | 1440 | 1270 | 1100 | 940 | 830 | 690 | 540 |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1530 | 1320 | 1190 | 1060 | 930 | 810 | 690 | 610 | 500 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2330 | 2000 | 1820 | 1610 | 1420 | 1230 | 1050 | 930 | 770 | 610 |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1490 | 1280 | 1160 | 1030 | 910 | 790 | 670 | 600 | 490 | 390 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1565 | 1350 | 1220 | 1080 | 950 | 830 | 700 | 630 | 520 | 410 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2285 | 1970 | 1780 | 1580 | 1390 | 1210 | 1030 | 910 | 750 | 590 |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 1110 | 950 | 870 | 770 | 680 | 590 | 500 | 440 | 370 | 290 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1170 | 1010 | 910 | 810 | 710 | 620 | 530 | 470 | 390 | 300 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 1910 | 1640 | 1490 | 1320 | 1170 | 1010 | 860 | 760 | 630 | 500 |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 1430 | 1230 | 1120 | 990 | 870 | 760 | 640 | 570 | 470 | 370 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1520 | 1310 | 1190 | 1050 | 930 | 810 | 680 | 610 | 500 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1460 | 1260 | 1140 | 1010 | 890 | 770 | 660 | 580 | 480 | 380 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1535 | 1320 | 1200 | 1060 | 940 | 810 | 690 | 610 | 510 | 400 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2240 | 1930 | 1750 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 580 |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 18-7/16 | 1 | 18-7/16 | 1090 | 940 | 850 | 750 | 660 | 580 | 490 | 440 | 360 | 280 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 1830 | 1570 | 1430 | 1260 | 1120 | 970 | 820 | 730 | 600 | 480 |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 1290 | 1110 | 1010 | 890 | 790 | 680 | 580 | 520 | 430 | 340 |
| | | | | | 24-7/16 | 1 | 24-7/16 | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 |
| | | | | | 24-7/16 | 2-6 CL | 24-7/16 | 2030 | 1750 | 1580 | 1400 | 1240 | 1080 | 910 | 810 | 670 | 530 |

STYLES JV4 V4-AR PM AND JV4 V4-AR PM2 CLASSIC



**Style V4-AR PM
JV4-AR PM**



**Style V4-AR PM2
JV4-AR PM2**

Accessories

V4 – Underlapping Reveal Type

JV4 – Overlapping Wrapper Type

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|---------|
| 3/4" COPPER | 3 5/8" x 4 1/4" | 2 | 6 7/16 |
| 3/4" COPPER | 4 1/4" x 4 1/4" | 3A | 6 13/16 |
| 1" COPPER | 3 5/8" x 4 1/4" | 2 | 6 5/8 |
| 1" COPPER | 4 1/4" x 4 1/4" | 2 | 6 5/8 |
| 1 1/4" COPPER | 3 5/8" x 4 1/4" | 2 | 6 3/4 |
| 1 1/4" COPPER | 4 1/4" x 4 1/4" | 2 | 6 3/4 |
| 1" STEEL | 4 1/4" x 4 1/4" | 2 | 6 3/4 |
| 1 1/4" STEEL | 4 1/4" x 4 1/4" | 2 | 6 15/16 |
| 2" STEEL | 4 1/4" x 4 1/4" | 1 | 6 11/16 |

See page 32 for supply or return pipe in enclosure.

STYLES V4-AR PM AND V4-AR PM2

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL DEPTH IN INCHES | ROWS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|----------------------|----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | .086 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 6 3/4 | 1 | 10 3/4 | 1040 | 890 | 810 | 720 | 630 | 550 | 470 | 420 | 340 | 270 |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2080 | 1790 | 1620 | 1440 | 1270 | 1100 | 940 | 830 | 690 | 540 |
| 3/4" | VC3/4-434 | 3-5/8" x 4-1/4" | 40 | .020 | 6 3/4 | 1 | 10 3/4 | 1250 | 1080 | 980 | 860 | 760 | 660 | 560 | 500 | 410 | 330 |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2490 | 2140 | 1940 | 1720 | 1520 | 1320 | 1120 | 1000 | 820 | 650 |
| 3/4" | VC3/4-435 | 3-5/8" x 4-1/4" | 50 | .020 | 6 3/4 | 1 | 10 3/4 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2750 | 2370 | 2150 | 1900 | 1680 | 1460 | 1240 | 1100 | 910 | 720 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 6 3/4 | 1 | 10 3/4 | 1080 | 930 | 840 | 750 | 660 | 570 | 490 | 430 | 360 | 280 |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2170 | 1870 | 1690 | 1500 | 1320 | 1150 | 980 | 870 | 720 | 560 |
| 1" | VC434 | 3-5/8" x 4-1/4" | 40 | .020 | 6 3/4 | 1 | 10 3/4 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2430 | 2090 | 1900 | 1680 | 1480 | 1290 | 1090 | 970 | 800 | 630 |
| 1" | VC435 | 3-5/8" x 4-1/4" | 50 | .020 | 6 3/4 | 1 | 10 3/4 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2750 | 2370 | 2150 | 1900 | 1680 | 1460 | 1240 | 1100 | 910 | 720 |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 6 3/4 | 1 | 10 3/4 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2250 | 1940 | 1760 | 1550 | 1370 | 1190 | 1010 | 900 | 740 | 590 |

STYLES JV4 V4-ARPM AND JV4 V4-ARPM PM2

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL DEPTH IN INCHES | ROWS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|----------------------|----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1-1/4" | VC1434 | 3-5/8" x 4-1/4" | 40 | .020 | 6 3/4 | 1 | 10 3/4 | 1240 | 1070 | 970 | 860 | 760 | 660 | 560 | 500 | 410 | 320 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2480 | 2130 | 1930 | 1710 | 1510 | 1310 | 1120 | 990 | 820 | 640 | |
| 1-1/4" | VC1435 | 3-5/8" x 4-1/4" | 50 | .020 | 6 3/4 | 1 | 10 3/4 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2750 | 2370 | 2150 | 1900 | 1680 | 1460 | 1240 | 1100 | 910 | 720 | |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 6 3/4 | 1 | 10 3/4 | 1150 | 990 | 900 | 790 | 700 | 610 | 520 | 460 | 380 | 300 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 | |
| 3/4" | VC3/4-44 | 4-1/4" SQ. | 40 | .020 | 6 3/4 | 1 | 10 3/4 | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2750 | 2370 | 2150 | 1900 | 1680 | 1460 | 1240 | 1100 | 910 | 720 | |
| 3/4" | VC3/4-45 | 4-1/4" SQ. | 50 | .020 | 6 3/4 | 1 | 10 3/4 | 1420 | 1220 | 1110 | 980 | 870 | 750 | 640 | 570 | 470 | 370 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2840 | 2440 | 2220 | 1960 | 1730 | 1510 | 1280 | 1140 | 940 | 740 | |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 6 3/4 | 1 | 10 3/4 | 1150 | 990 | 900 | 790 | 700 | 610 | 520 | 460 | 380 | 300 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2300 | 1980 | 1790 | 1590 | 1400 | 1220 | 1040 | 920 | 760 | 600 | |
| 1" | VC44 | 4-1/4" SQ. | 40 | .020 | 6 3/4 | 1 | 10 3/4 | 1280 | 1100 | 1000 | 880 | 780 | 680 | 580 | 510 | 420 | 330 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2560 | 2200 | 2000 | 1770 | 1560 | 1360 | 1150 | 1020 | 840 | 670 | |
| 1" | VC45 | 4-1/4" SQ. | 50 | .020 | 6 3/4 | 1 | 10 3/4 | 1440 | 1240 | 1120 | 990 | 880 | 760 | 650 | 580 | 480 | 370 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2890 | 2490 | 2250 | 1990 | 1760 | 1530 | 1300 | 1160 | 950 | 750 | |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 6 3/4 | 1 | 10 3/4 | 1200 | 1030 | 940 | 830 | 730 | 640 | 540 | 480 | 400 | 310 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2410 | 2070 | 1880 | 1660 | 1470 | 1280 | 1080 | 960 | 800 | 630 | |
| 1-1/4" | VC144 | 4-1/4" SQ. | 40 | .020 | 6 3/4 | 1 | 10 3/4 | 1430 | 1230 | 1120 | 990 | 870 | 760 | 640 | 570 | 470 | 370 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2860 | 2460 | 2230 | 1970 | 1740 | 1520 | 1290 | 1140 | 940 | 740 | |
| 1-1/4" | VC145 | 4-1/4" SQ. | 50 | .020 | 6 3/4 | 1 | 10 3/4 | 1470 | 1260 | 1150 | 1010 | 900 | 780 | 660 | 590 | 490 | 380 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2940 | 2530 | 2290 | 2030 | 1790 | 1560 | 1320 | 1180 | 970 | 760 | |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| I.P.S. SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL DEPTH IN INCHES | ROWS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | | |
|-------------|---------------------|-------------------------|--------------|-------------------------|----------------------|----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|-----|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° | |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | | |
| | | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 6 3/4 | 1 | 10 3/4 | 1140 | 980 | 890 | 790 | 700 | 600 | 510 | 460 | 380 | 300 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2270 | 1950 | 1770 | 1570 | 1380 | 1200 | 1020 | 910 | 750 | 590 | |
| 1" | VS44 | 4-1/4" SQ. | 40 | .032 | 6 3/4 | 1 | 10 3/4 | 1280 | 1100 | 1000 | 880 | 780 | 680 | 580 | 510 | 420 | 330 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2560 | 2200 | 2000 | 1770 | 1560 | 1360 | 1150 | 1020 | 840 | 670 | |
| 1" | VS45 | 4-1/4" SQ. | 50 | .032 | 6 3/4 | 1 | 10 3/4 | 1360 | 1170 | 1060 | 940 | 830 | 720 | 610 | 540 | 450 | 350 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2720 | 2340 | 2120 | 1880 | 1660 | 1440 | 1220 | 1090 | 900 | 710 | |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 6 3/4 | 1 | 10 3/4 | 1050 | 900 | 820 | 720 | 640 | 560 | 470 | 420 | 350 | 270 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2100 | 1810 | 1640 | 1450 | 1280 | 1110 | 950 | 840 | 690 | 550 | |
| 1-1/4" | VS144 | 4-1/4" SQ. | 40 | .032 | 6 3/4 | 1 | 10 3/4 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2550 | 2190 | 1990 | 1760 | 1560 | 1350 | 1150 | 1020 | 840 | 660 | |
| 1-1/4" | VS145 | 4-1/4" SQ. | 50 | .032 | 6 3/4 | 1 | 10 3/4 | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2670 | 2300 | 2080 | 1840 | 1630 | 1420 | 1200 | 1070 | 880 | 690 | |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 6 3/4 | 1 | 10 3/4 | 980 | 840 | 760 | 680 | 600 | 520 | 440 | 390 | 320 | 250 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 1960 | 1690 | 1530 | 1350 | 1200 | 1040 | 880 | 780 | 650 | 510 | |
| 2" | VS243 | 4-1/4" SQ. | 32 | .032 | 6 3/4 | 1 | 10 3/4 | 1280 | 1100 | 1000 | 880 | 780 | 680 | 580 | 510 | 420 | 330 | |
| | | | | | 10 5/16 | 2 - 4 1/2 | " | 2560 | 2200 | 2000 | 1770 | 1560 | 1360 | 1150 | 1020 | 840 | 670 | |

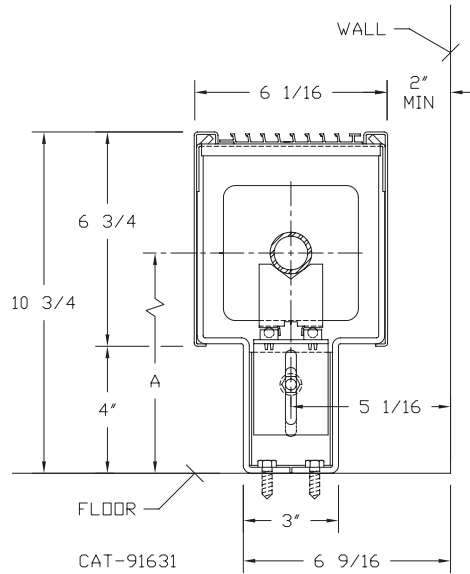
ELEMENT ORDERING INFORMATION

When ordering element specify fin thickness: steel = .024, .032; copper = .020, .011 as shown on Selection Pages.

The ratings shown in this catalog are in BTU per hour per linear foot of active fin length. Active fin length is catalog ordering length less 4" on copper/aluminum element and less 5" on steel elements.

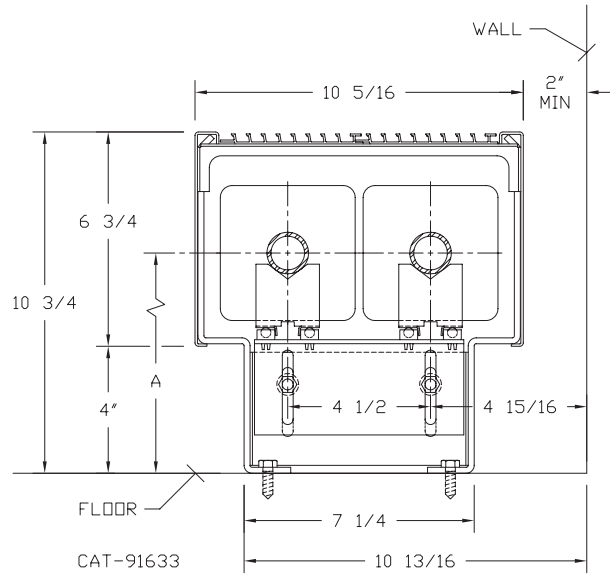
OPTIONAL ADJUSTABLE PEDESTAL BRACKET ASSEMBLIES FOR 2-PIPE STEAM

JV4-ARPM OR V4-ARPM



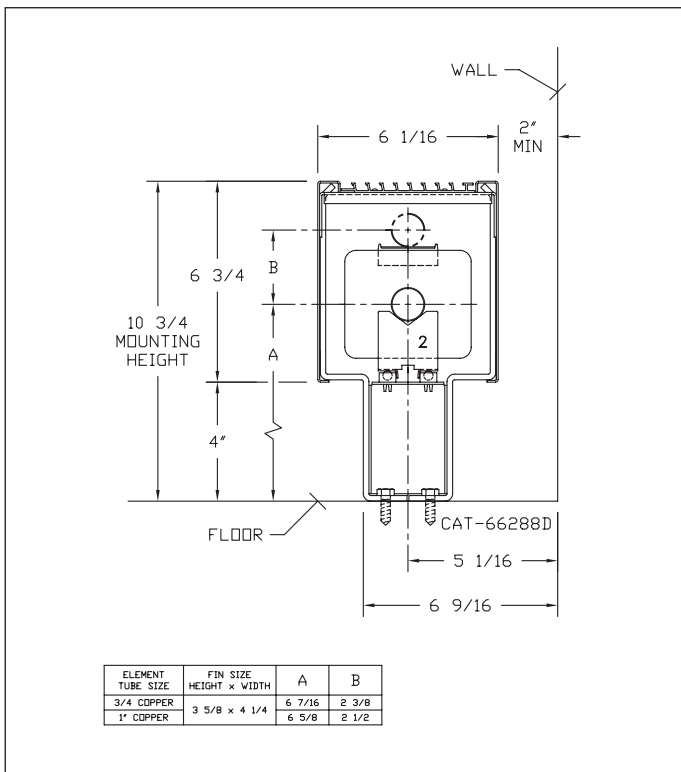
| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A MIN | A MAX |
|-------------------|-------------------------|---------------|---------|---------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 6 1/2 | 7 13/16 |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | 6 11/16 | |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | 6 1/2 | |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | 6 1/2 | |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | 6 5/8 | |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | 6 5/8 | |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | 6 5/8 | |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | 6 3/4 | |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | 6 1/2 | |

JV4-ARPM2 OR V4-ARPM2

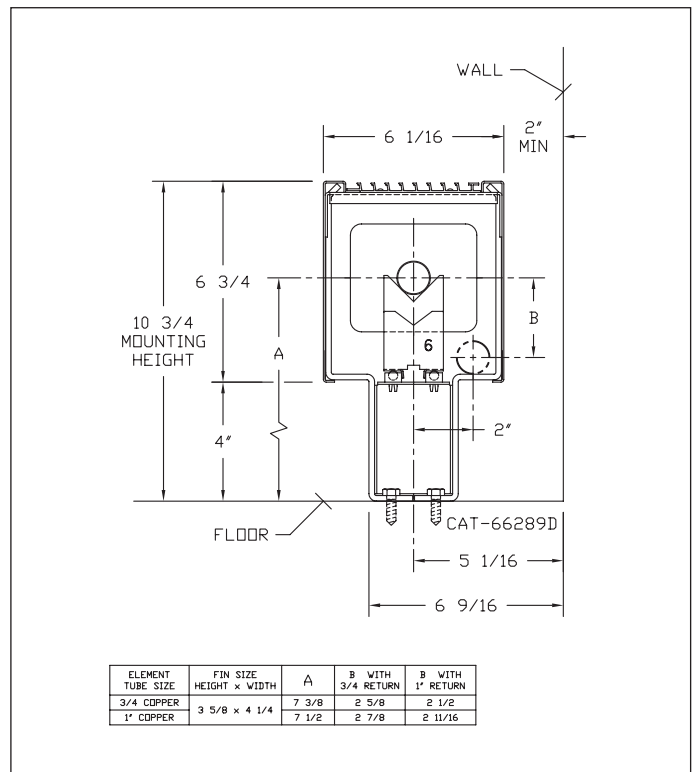


| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A MIN | A MAX |
|-------------------|-------------------------|---------------|---------|---------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 2 | 6 1/2 | 7 13/16 |
| 3/4 COPPER | 4 1/4 x 4 1/4 | 3A | 6 11/16 | |
| 1" COPPER | 3 5/8 x 4 1/4 | 2 | 6 1/2 | |
| 1" COPPER | 4 1/4 x 4 1/4 | 2 | 6 1/2 | |
| 1 1/4 COPPER | 3 5/8 x 4 1/4 | 2 | 6 5/8 | |
| 1 1/4 COPPER | 4 1/4 x 4 1/4 | 2 | 6 5/8 | |
| 1" STEEL | 4 1/4 x 4 1/4 | 2 | 6 5/8 | |
| 1 1/4 STEEL | 4 1/4 x 4 1/4 | 2 | 6 3/4 | |
| 2" STEEL | 4 1/4 x 4 1/4 | 1 | 6 1/2 | |

RETURN PIPING OPTIONS WITH 3/4" & 1" COPPER TUBE ELEMENTS

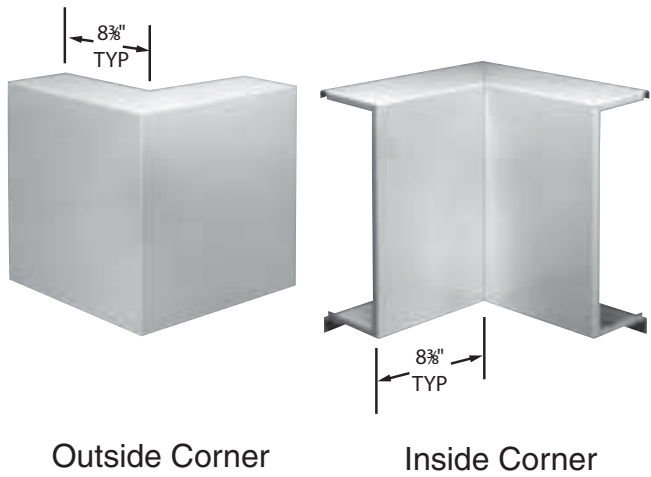
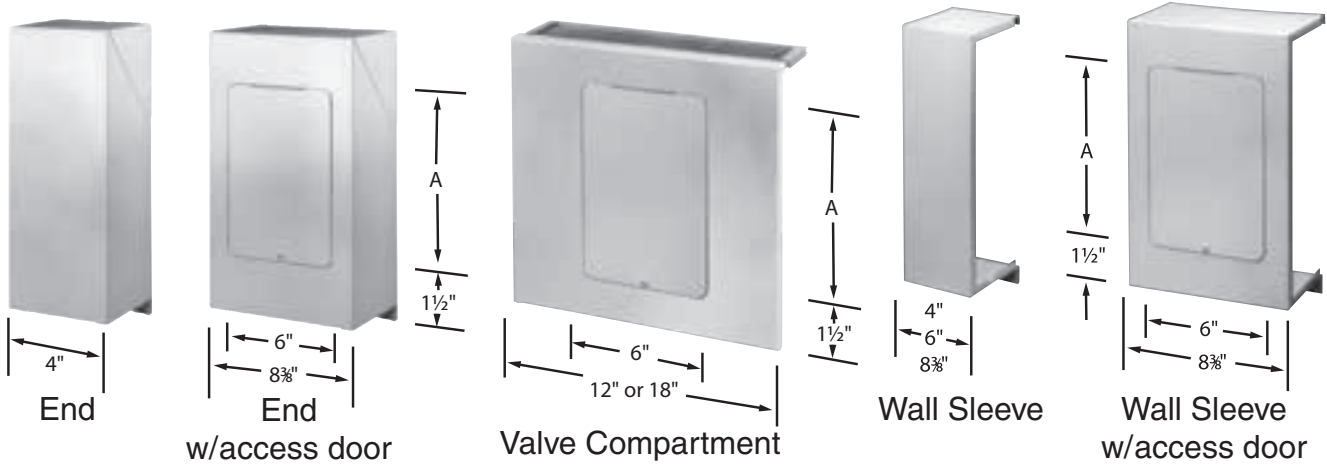


| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | A | B |
|-------------------|-------------------------|--------|-------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 6 7/16 | 2 3/8 |
| 1" COPPER | 3 5/8 x 4 1/4 | 6 5/8 | 2 1/2 |



| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | A | B WITH 3/4" RETURN | B WITH 1" RETURN |
|-------------------|-------------------------|-------|--------------------|------------------|
| 3/4 COPPER | 3 5/8 x 4 1/4 | 7 3/8 | 2 5/8 | 2 1/2 |
| 1" COPPER | 3 5/8 x 4 1/4 | 7 1/2 | 2 7/8 | 2 11/16 |

CLASSIC STYLE ACCESSORIES



| ACCESS DOOR LOCATION | | | |
|----------------------|---------------|-------------|-------------------|
| PRODUCT | "A" DIMENSION | | |
| | END | WALL SLEEVE | VALVE COMPARTMENT |
| V2/JV2-AR11 | 5" | 5" | 5" |
| V3/JV3-AR14 | 9" | 9" | 5" |
| V4/JV4-AR14 | 9" | 9" | 5" |
| V4/JV4-AR20 | 9" | 9" | 9" |
| V4/JV4-AR24 | 9" | 9" | 9" |

NOTES:
 UNDERLAPPING ACCESSORIES WILL EXTEND 4" MAXIMUM UNDER ENCLOSURE.
 AR-7 ACCESSORIES WITH ACCESS DOOR ARE PROVIDED WITH 6" WIDE BY 5" HIGH DOORS.
 ALTERNATE ACCESS DOOR LOCATIONS ARE AVAILABLE, CONSULT FACTORY.

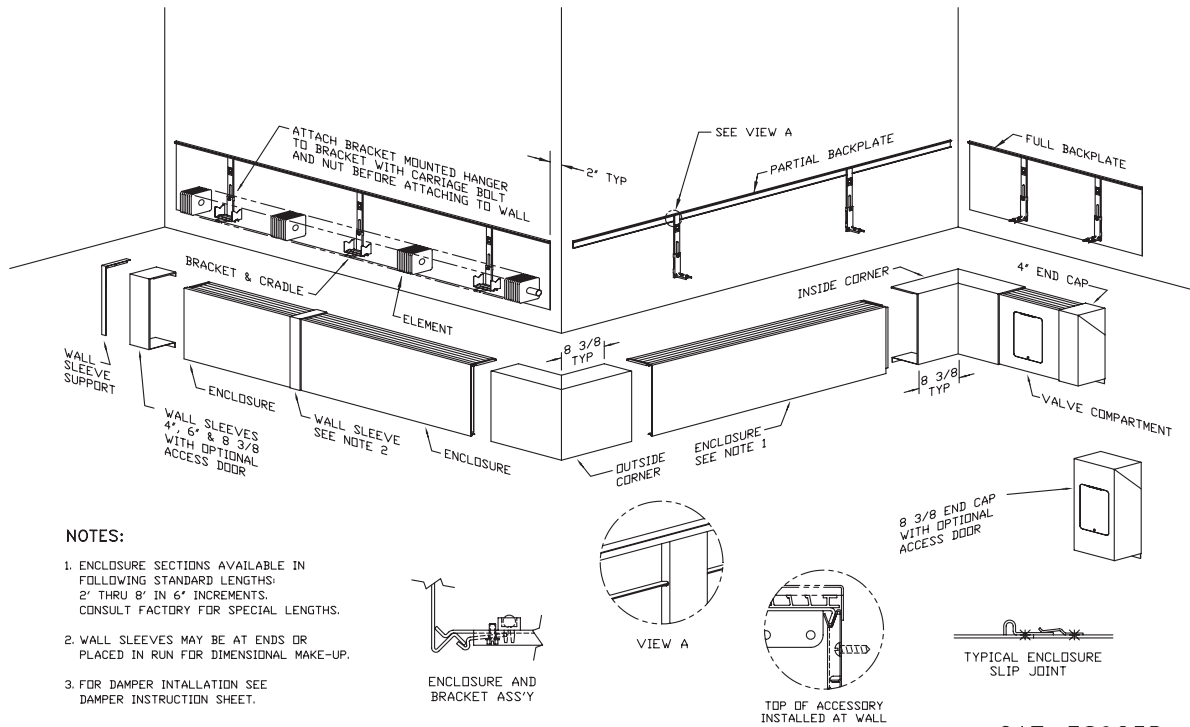
CAT-78739-1

Accessories

V2, V3, V4 – Underlapping Reveal Type
 JV2, JV3, JV4 – Overlapping Type

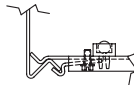
ACCESSORIES

INSTALLATION LAYOUT TYPICAL FOR "J" CLASSIC WITH SLIP-JOINED EDGES, OVERLAPPING ACCESSORIES.

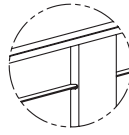


NOTES:

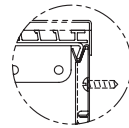
- ENCLOSURE SECTIONS AVAILABLE IN FOLLOWING STANDARD LENGTHS: 2' THRU 8' IN 6" INCREMENTS. CONSULT FACTORY FOR SPECIAL LENGTHS.
- WALL SLEEVES MAY BE AT ENDS OR PLACED IN RUN FOR DIMENSIONAL MAKE-UP.
- FOR DAMPER INSTALLATION SEE DAMPER INSTRUCTION SHEET.



ENCLOSURE AND BRACKET ASS'Y



VIEW A



TOP OF ACCESSORY INSTALLED AT WALL

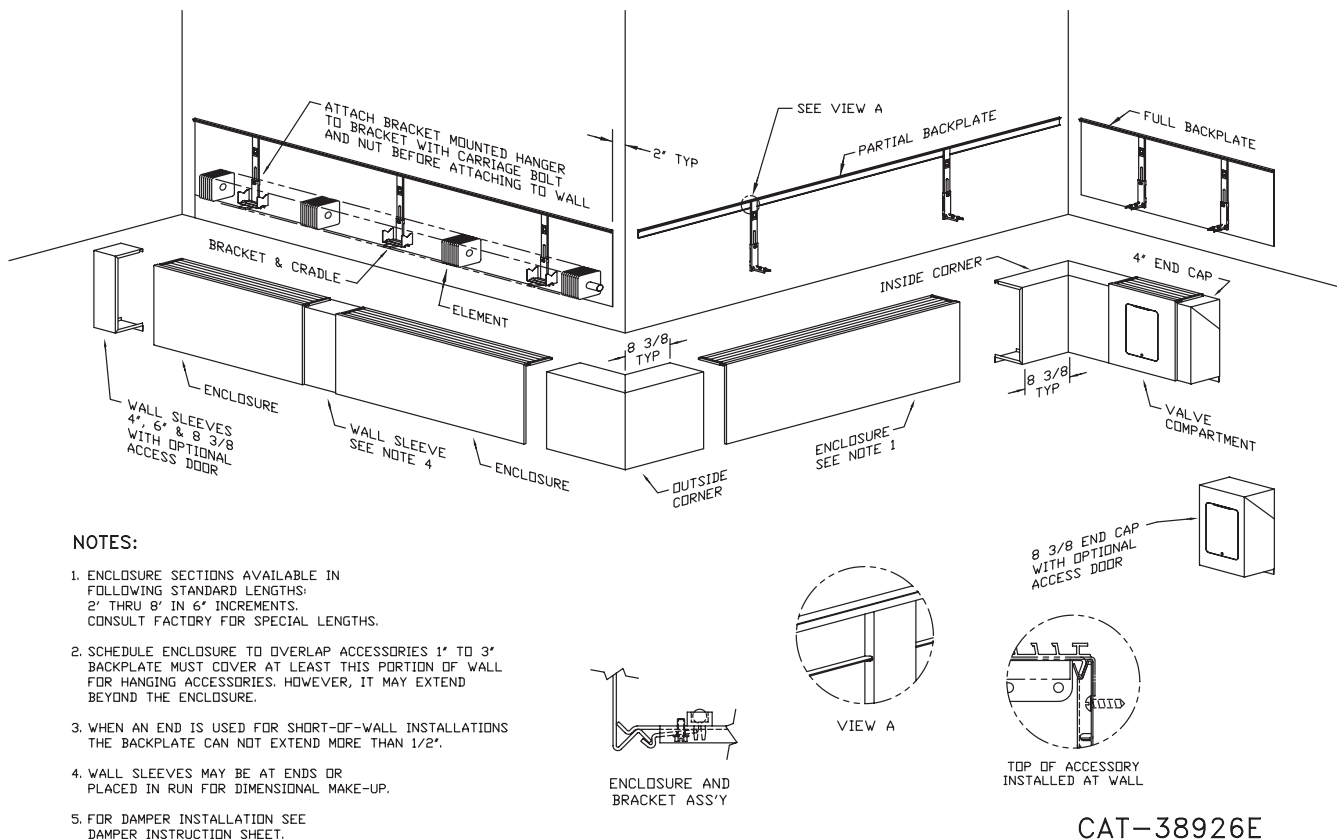
8 3/8 END CAP WITH OPTIONAL ACCESS DOOR



TYPICAL ENCLOSURE SLIP JOINT

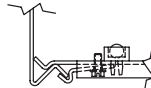
CAT-38925D

INSTALLATION LAYOUT TYPICAL FOR STANDARD CLASSIC WITH WIPED EDGE, UNDERLAPPING ACCESSORIES.

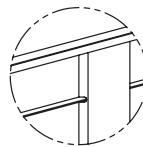


NOTES:

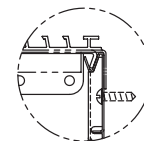
- ENCLOSURE SECTIONS AVAILABLE IN FOLLOWING STANDARD LENGTHS: 2' THRU 8' IN 6" INCREMENTS. CONSULT FACTORY FOR SPECIAL LENGTHS.
- SCHEDULE ENCLOSURE TO OVERLAP ACCESSORIES 1' TO 3'. BACKPLATE MUST COVER AT LEAST THIS PORTION OF WALL FOR HANGING ACCESSORIES. HOWEVER, IT MAY EXTEND BEYOND THE ENCLOSURE.
- WHEN AN END IS USED FOR SHORT-OF-WALL INSTALLATIONS THE BACKPLATE CAN NOT EXTEND MORE THAN 1/2'.
- WALL SLEEVES MAY BE AT ENDS OR PLACED IN RUN FOR DIMENSIONAL MAKE-UP.
- FOR DAMPER INSTALLATION SEE DAMPER INSTRUCTION SHEET.



ENCLOSURE AND BRACKET ASS'Y



VIEW A

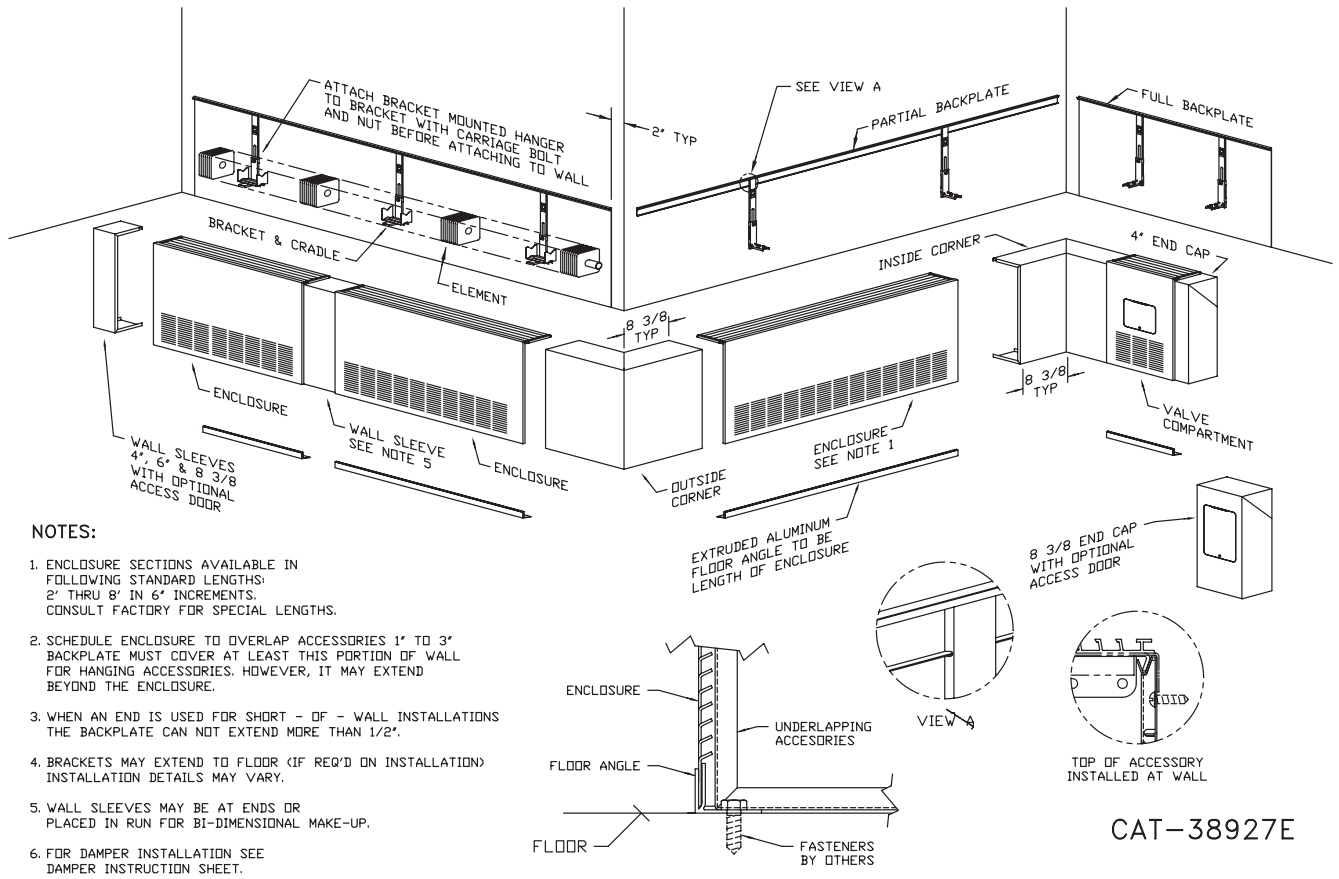


TOP OF ACCESSORY INSTALLED AT WALL

8 3/8 END CAP WITH OPTIONAL ACCESS DOOR

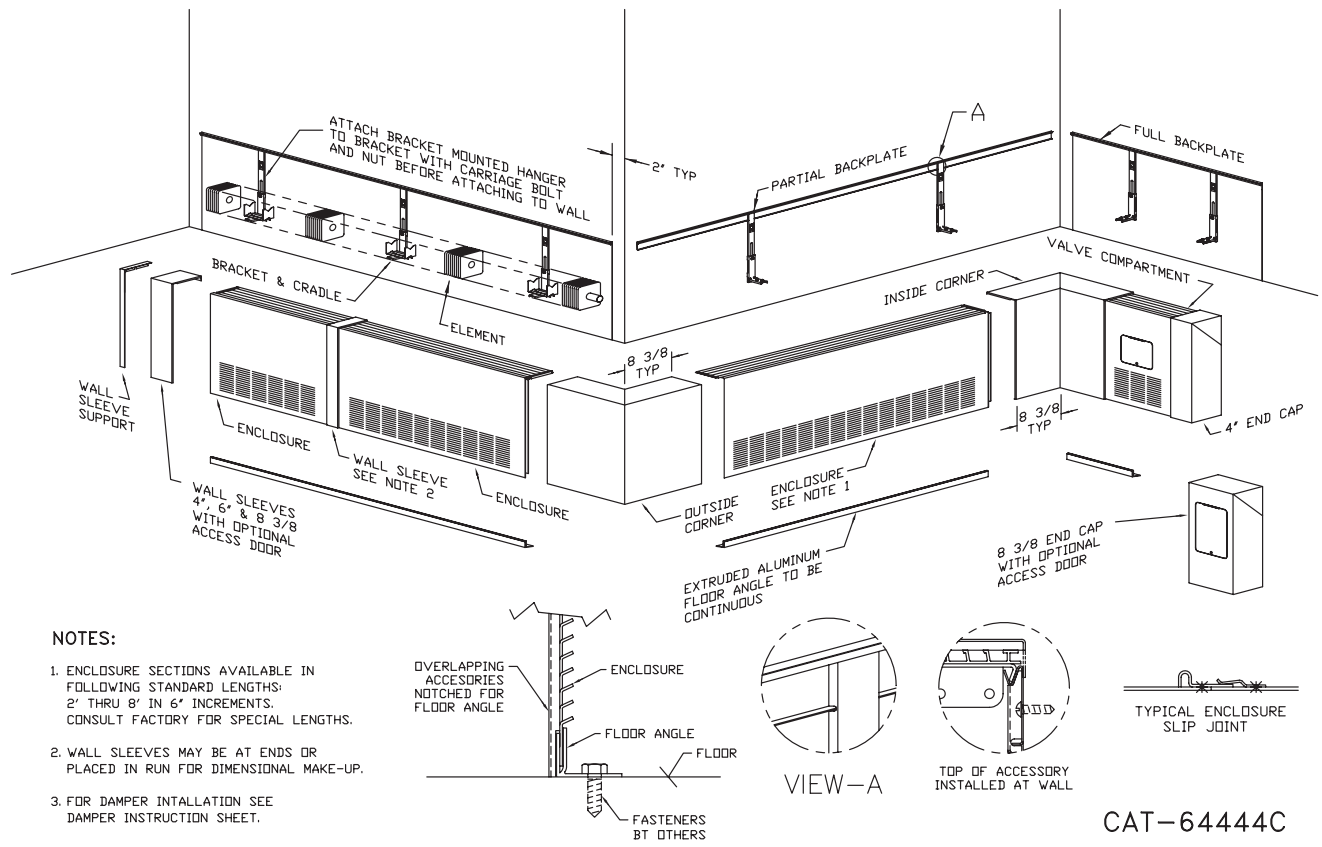
CAT-38926E

INSTALLATION LAYOUT FOR FLOOR MOUNTED ENCLOSURES V3 & V4



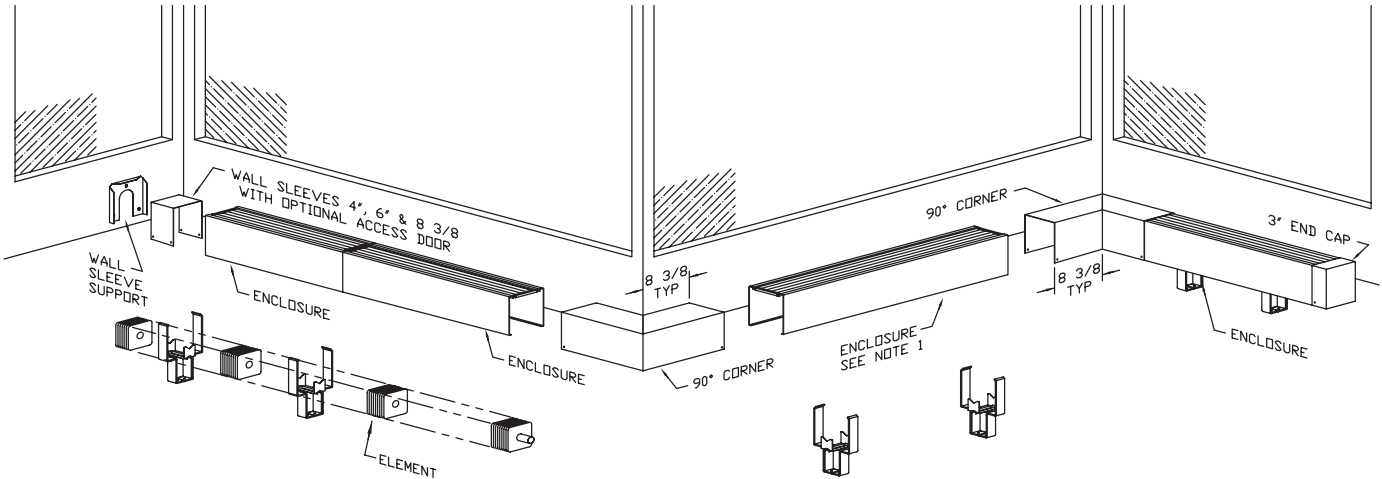
CAT-38927E

INSTALLATION LAYOUT FOR FLOOR MOUNTED ENCLOSURES JV3 & JV4



CAT-64444C

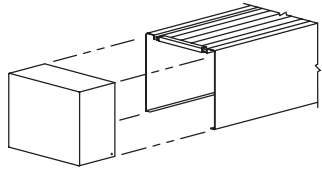
INSTALLATION LAYOUT FOR PEDESTAL MOUNT JV4-ARPM ENCLOSURE



NOTES:

1. ENCLOSURE SECTIONS AVAILABLE IN FOLLOWING STANDARD LENGTHS: 2' THRU 8' IN 6" INCREMENTS. CONSULT FACTORY FOR SPECIAL LENGTHS.
2. LAYOUT JOB SELECTING ENCLOSURE LENGTHS WITH SLIP JOINT AT EACH END OF ENCLOSURE. SPACE ENCLOSURES TO SUIT. AT EACH END OF RUN USE WALL SLEEVE OR 3° END TO SUIT JOB.
3. LAY OUT PEDESTAL BRACKET LOCATIONS SO THE BRACKETS ARE 6' TO 12' FROM THE END OF ENCLOSURE. FOR ENCLOSURES OVER 5 FT LONG, LOCATE AN ADDITIONAL BRACKET AT THE CENTER OF THAT ENCLOSURE.
4. SCHEDULE ACCESSORIES TO OVERLAP ENCLOSURES 1"-3" EXCEPT ENDS 1"-2". WITH ACCESS DOOR OVERLAP MAX. 1". FOR MOST INSTALLATIONS, THE USE OF A TWO FOOT ENCLOSURE SECTION FOR A REMOVABLE ACCESS SECTION IS ACCEPTABLE.

CAT-67228C



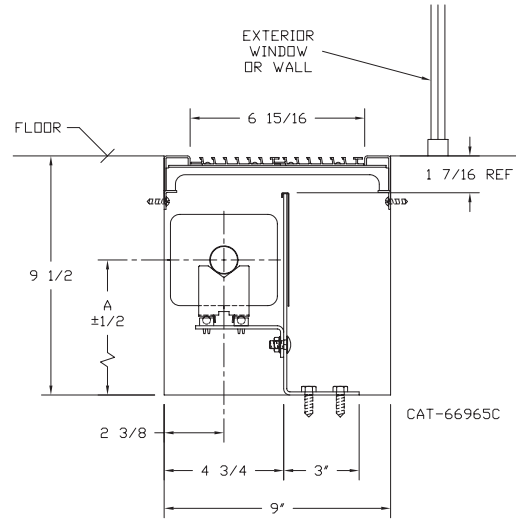
NOTE: FASTEN ACCESSORIES WITH SHEET METAL SCREW THRU SOLID PART OF ENCLOSURE.

STYLE TR TROUGH

TRC

| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A |
|-------------------|-------------------------|---------------|----------|
| 3/4" COPPER | 3 5/8" x 4 1/4" | 2 | 5 3/8" |
| 3/4" COPPER | 4 1/4" x 4 1/4" | 3A | 5 3/4" |
| 1" COPPER | 3 5/8" x 4 1/4" | 2 | 5 9/16" |
| 1" COPPER | 4 1/4" x 4 1/4" | 2 | 5 9/16" |
| 1 1/4" COPPER | 3 5/8" x 4 1/4" | 2 | 5 11/16" |
| 1 1/4" COPPER | 4 1/4" x 4 1/4" | 2 | 5 11/16" |
| 1" STEEL | 4 1/4" x 4 1/4" | 2 | 5 5/8" |
| 1 1/4" STEEL | 4 1/4" x 4 1/4" | 2 | 5 7/8" |
| 2" STEEL | 4 1/4" x 4 1/4" | 1 | 5 5/8" |

Notes: 1. Shown with C3/4-435 element.
2. Trough liner optional (not shown).



COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | TROUGH DEPTH AND HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | VC3/4-433 | 3-5/8" x 4-1/4" | 32 | .020 | 9 1/2 x 9 | 1120 | 960 | 870 | 770 | 680 | 590 | 500 | 450 | 370 | 290 |
| | VC3/4-434 | | 40 | " | " | 1340 | 1150 | 1050 | 920 | 820 | 710 | 600 | 540 | 440 | 350 |
| | VC3/4-435 | | 50 | " | " | 1480 | 1270 | 1150 | 1020 | 900 | 780 | 670 | 590 | 490 | 380 |
| 1" | VC433 | 3-5/8" x 4-1/4" | 32 | .020 | 9 1/2 x 9 | 1170 | 1010 | 910 | 810 | 710 | 620 | 530 | 470 | 390 | 300 |
| | VC434 | | 40 | " | " | 1300 | 1120 | 1010 | 900 | 790 | 690 | 590 | 520 | 430 | 340 |
| | VC435 | | 50 | " | " | 1480 | 1270 | 1150 | 1020 | 900 | 780 | 670 | 590 | 490 | 380 |
| 1-1/4" | VC1433 | 3-5/8" x 4-1/4" | 32 | .020 | 9 1/2 x 9 | 1210 | 1040 | 940 | 830 | 740 | 640 | 540 | 480 | 400 | 310 |
| | VC1434 | | 40 | " | " | 1330 | 1140 | 1040 | 920 | 810 | 700 | 600 | 530 | 440 | 350 |
| | VC1435 | | 50 | " | " | 1480 | 1270 | 1150 | 1020 | 900 | 780 | 670 | 590 | 490 | 380 |
| 3/4" | VC3/4-43 | 4-1/4" SQ. | 32 | .020 | 9 1/2 x 9 | 1240 | 1070 | 970 | 860 | 760 | 660 | 560 | 500 | 410 | 320 |
| | VC3/4-44 | | 40 | " | " | 1480 | 1270 | 1150 | 1020 | 900 | 780 | 670 | 590 | 490 | 380 |
| | VC3/4-45 | | 50 | " | " | 1530 | 1320 | 1190 | 1060 | 930 | 810 | 690 | 610 | 500 | 400 |
| 1" | VC43 | 4-1/4" SQ. | 32 | .020 | 9 1/2 x 9 | 1240 | 1070 | 970 | 860 | 760 | 660 | 560 | 500 | 410 | 320 |
| | VC44 | | 40 | " | " | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | VC45 | | 50 | " | " | 1550 | 1330 | 1210 | 1070 | 950 | 820 | 700 | 620 | 510 | 400 |
| 1-1/4" | VC143 | 4-1/4" SQ. | 32 | .020 | 9 1/2 x 9 | 1300 | 1120 | 1010 | 900 | 790 | 690 | 590 | 520 | 430 | 340 |
| | VC144 | | 40 | " | " | 1540 | 1320 | 1200 | 1060 | 940 | 820 | 690 | 620 | 510 | 400 |
| | VC145 | | 50 | " | " | 1580 | 1360 | 1230 | 1090 | 960 | 840 | 710 | 630 | 520 | 410 |

Notes: 1) Ratings are based on 24 sq. in. of free area per lineal foot of air inlet and outlet each.
2) For systems using steam, consult factory.

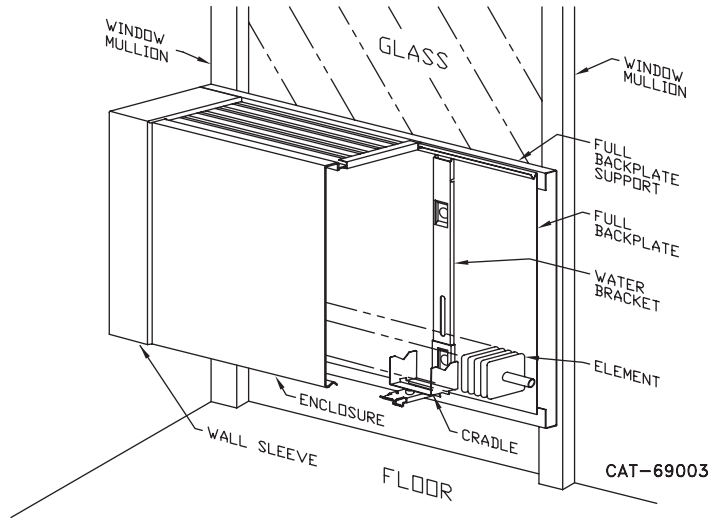
STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| I.P.S. SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | TROUGH DEPTH AND HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-------------|---------------------|-------------------------|--------------|-------------------------|-----------------------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | VS43 | 4-1/4" SQ. | 32 | .032 | 9 1/2 x 9 | 1220 | 1050 | 950 | 840 | 740 | 650 | 550 | 490 | 400 | 320 |
| | VS44 | | 40 | " | " | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |
| | VS45 | | 50 | " | " | 1460 | 1260 | 1140 | 1010 | 890 | 770 | 660 | 580 | 480 | 380 |
| 1-1/4" | VS143 | 4-1/4" SQ. | 32 | .032 | 9 1/2 x 9 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| | VS144 | | 40 | " | " | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 |
| | VS145 | | 50 | " | " | 1430 | 1230 | 1120 | 990 | 870 | 760 | 640 | 570 | 470 | 370 |
| 2" | VS242 | 4-1/4" SQ. | 25 | .032 | 9 1/2 x 9 | 1050 | 900 | 820 | 720 | 640 | 560 | 470 | 420 | 350 | 270 |
| | VS243 | | 32 | " | " | 1380 | 1190 | 1080 | 950 | 840 | 730 | 620 | 550 | 460 | 360 |

Notes: 1) Ratings are based on 24 sq. in. of free area per lineal foot of air inlet and outlet each.
2) For systems using steam, consult factory.

BACKPLATE SUPPORTS FOR WINDOW MULLIONS

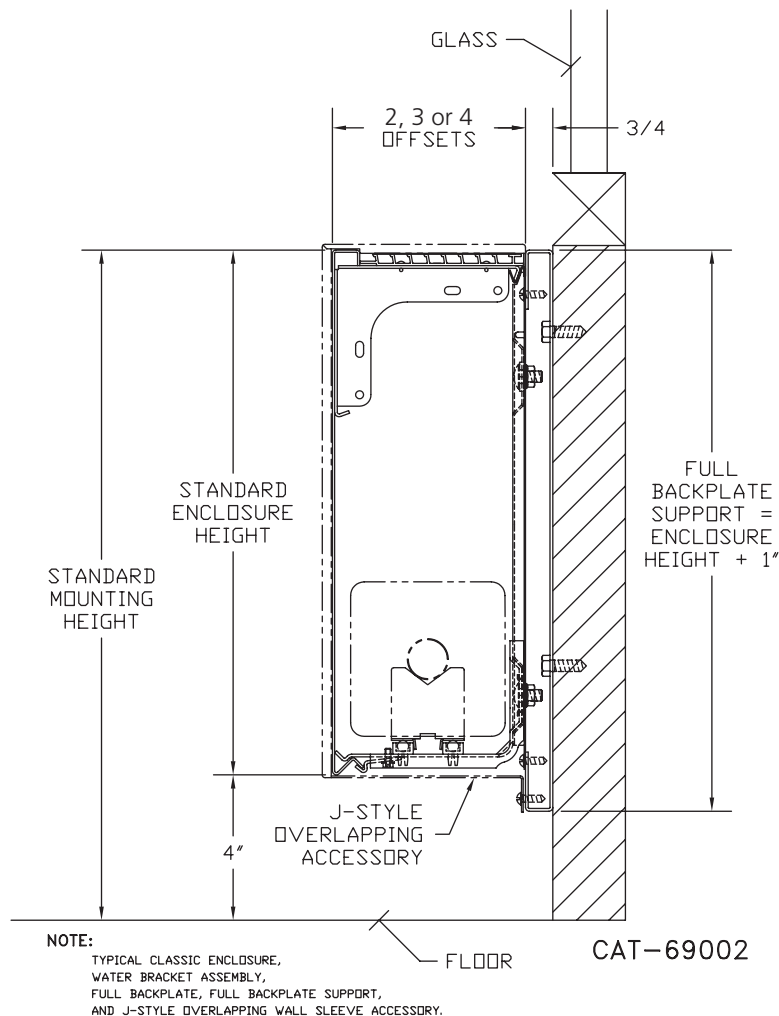


Classic Radiation is easily adaptable to panel wall, curtain wall and window wall construction.

All that is necessary for the full support of the Classic assemblies are the mullions used in this type of construction.

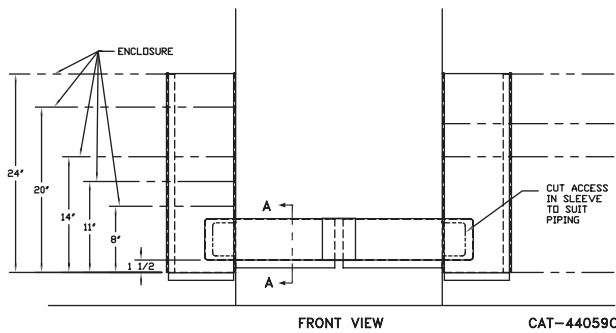
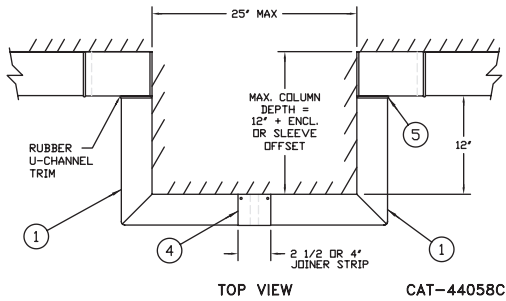
The assemblies are just as easily installed as in any other type of construction. Consult factory for unusual dimensional applications. (7¹/₄" min. ht.)

Typical panel-wall installation using the Vulcan bracket with ball-bearing cradle, and full backplate. Note how the backplate support lag to the mullions and the backplate to the backplate support. The brackets are attached to the backplate. Consult factory for variations.



PIPE ENCLOSURES

COLUMN ENCLOSURES

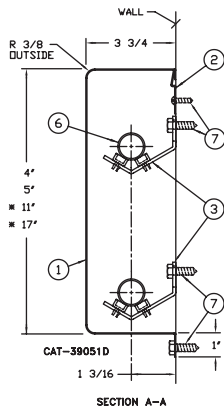


NOTE -

ALL PARTS SUPPLIED TO MAXIMUM DIMENSIONS, AS SHOWN TO BE CUT ON THE JOB TO SUIT INDIVIDUAL COLUMN SIZES.

*PIPING MAY BE 1 OR 2 TIERS AS REQUIRED. INSTALL HANGERS TO SUIT ENCLOSURE PIPING.

SEE PAGE 40 FOR STRAIGHT PIECES 4", 5", 11" OR 17"



VULCAN COLUMN ENCLOSURES

Column Enclosures can give an installation that finished, custom-made look.

It is designed to blend into the installation, both in color and in form. It installs easily without a single bolt showing. Yet is highly practical in use.

This picture shows the smooth contours and precision fabrication. The drawing at left gives full details and dimensions.



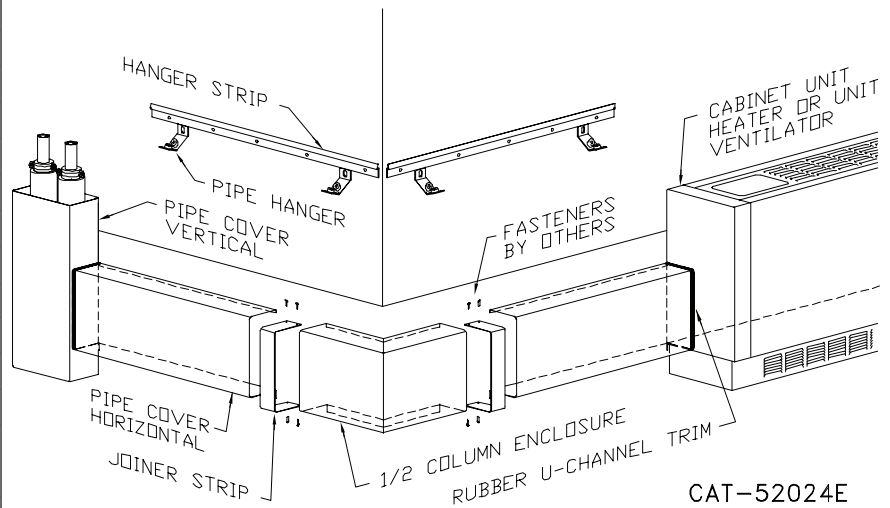
DETAILS AND DIMENSIONS

1. Column Enclosure — 18 Gauge CRS (SRP-15820)
2. Hanger Strip — 18 Gauge CRS
3. Roll Pipe Hanger
4. Joiner Strip — 2 1/2" or 4" wide (SRP-15821) with #8 x 1/2 Truss Head Screws
5. Rubber U-Channel Trim 1/16 x 3/16 x 5/16
6. Pipe By Others
7. Fasteners By Others Unless Specified

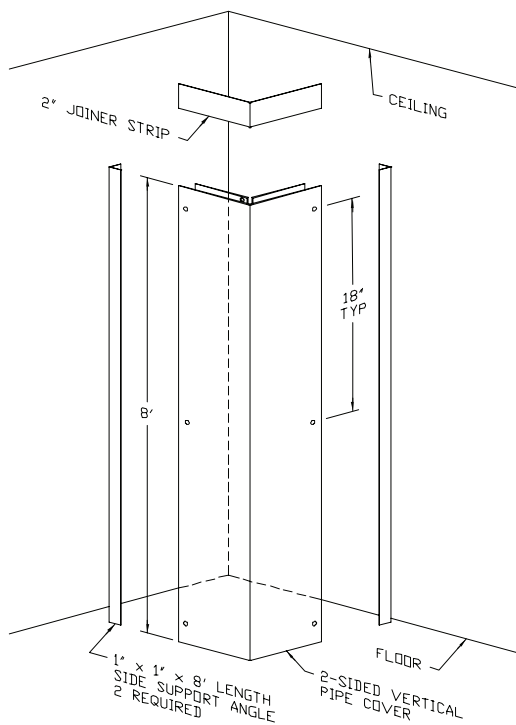
PIPE ENCLOSURES SEE PAGE 39 FOR COLUMN ENCLOSURES

METAL PIPE ENCLOSURES

| Catalog Number | Description |
|-------------------|---|
| Horizontal | |
| HPC-4 | 4" High 18 GA - 8' Lengths |
| HPC-5 | 5" High 18 GA - 8' Lengths |
| HPC-11 | 11" High 18 GA - 8' Lengths |
| HPC-17 | 17" High 18 GA - 8' Lengths |
| V610 | Mounting Strip |
| RPH-2 | Roll Pipe Hanger |
| Vertical | |
| VPC-52 | 5 x 5 Two Side 18 GA - 8' Lengths |
| VPC-82 | 8 x 8 Two Side 18 GA - 8' Lengths |
| VPC-53 | 5 x 5 Three Side 18 GA - 8' Lengths |
| VPC-83 | 8 x 8 Three Side 18 GA - 8' Lengths |
| 1 x 1 FA | 1 x 1 Side Support Angle - 8' Lengths (2 per Vertical Pipe Enclosure) |
| 1 x 1 FAB | 1 x 1 Side Support Angle - 8' Lengths (2 per Vertical Pipe Enclosure) |

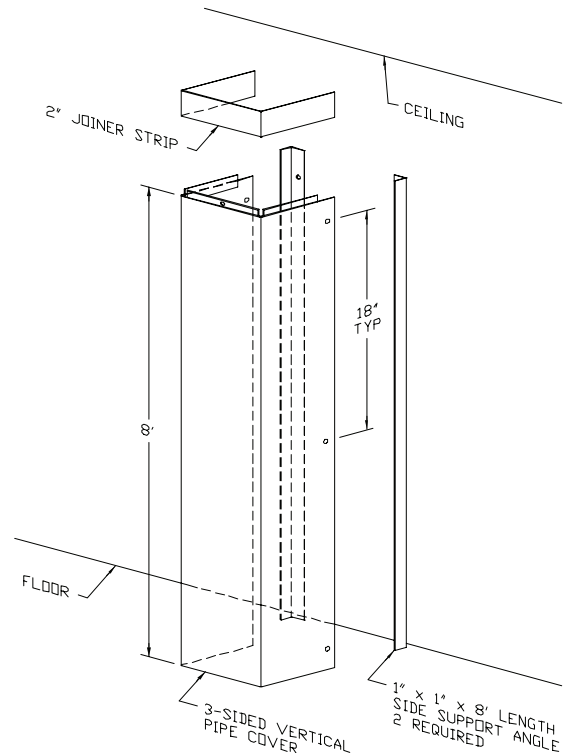


See page 39 for cross section view.



FASTENERS ARE BY OTHERS.
 FOR CEILING HEIGHTS GREATER THAN 8',
 MULTIPLE PIECES WILL BE REQUIRED.
 VERTICAL 2 SIDED -52 5' x 5' x 8' LENGTHS
 VERTICAL 2 SIDED -82 8' x 8' x 8' LENGTHS

CAT-68234

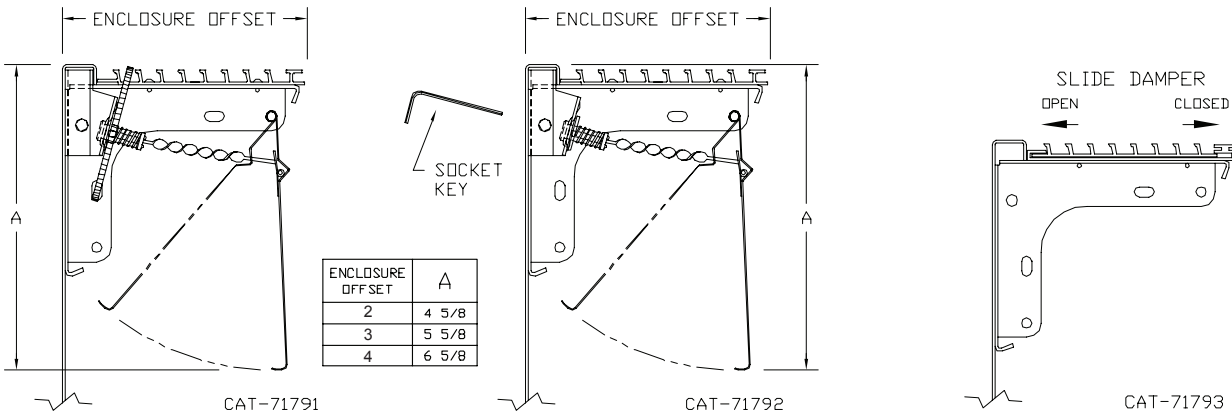


FASTENERS ARE BY OTHERS.
 FOR CEILING HEIGHTS GREATER THAN 8',
 MULTIPLE PIECES WILL BE REQUIRED.
 VERTICAL 3 SIDED -53 5' x 5' x 8' LENGTHS
 VERTICAL 3 SIDED -83 8' x 8' x 8' LENGTHS

CAT-68235

DESIGN FEATURES

OPTIONAL DAMPER ASSEMBLIES



Dial (D) – Optional
The damper assembly option is provided with a neatly concealed dial operated, fully modulating damper blade assembly. The damper blade is manufactured with rolled edges for lateral rigidity.

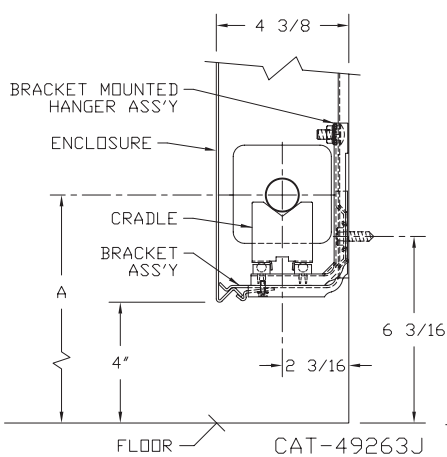
Tamper Resistant (TP) – Optional
The damper assembly option is provided with a concealed operator requiring a specialty tool to position fully modulating damper blade.

Slide Damper (SD) – Optional
The slide damper assembly consisting of two integrated extruded aluminum clear anodized grille plates provide air discharge control by front to back positioning which requires no mechanical actuating parts. Available in “4” offset enclosures. Not recommended to be painted.

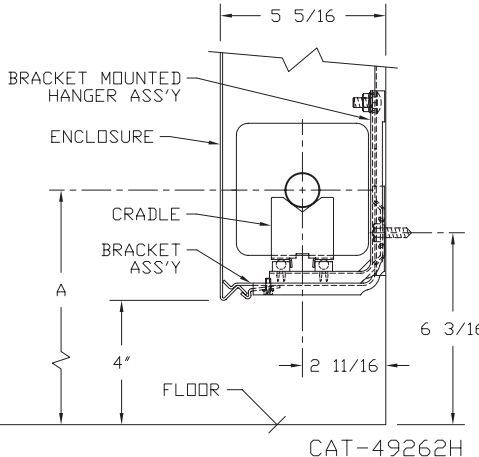
VERTICAL ELEMENT CENTERLINE DIMENSIONS

FOR INSTALLATIONS USING STEAM BRACKETS WITH BRACKET MOUNTED HANGERS

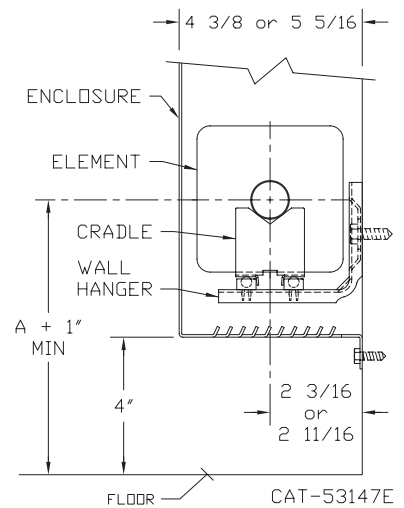
“3” OFFSET



“4” OFFSET



LOUVERED INLET RETURN TO WALL 'J' CLASSIC ONLY



| ELEMENT TUBE SIZE | CRADLE NUMBER | A MIN | A MAX |
|-------------------|---------------|-------|--------|
| 3/4" COPPER | 2 | 7-3/8 | 9-5/8 |
| 1" COPPER | 2 | 7-1/2 | 9-3/4 |
| 1-1/4" STEEL | 1 | 7 | 9-1/4 |
| 2" STEEL | 1 | 7-7/8 | 10-1/8 |

| ELEMENT TUBE SIZE | CRADLE NUMBER | A MIN | A MAX |
|-------------------|---------------|-------|-------|
| 3/4" COPPER | 2 | 7-3/8 | 8-3/4 |
| 1" COPPER | 2 | 7-1/2 | 8-7/8 |
| 1-1/4" COPPER | 2 | 7-5/8 | 9 |
| 1-1/4" STEEL | 2 | 7-7/8 | 9-1/4 |
| 2" STEEL | 1 | 7-5/8 | 9 |

Standard brackets with bracket mounted hangers are required for single or multiple tier installations where pitch adjustment is necessary. The hangers are to incorporate ball bearings/nylon inserts for smooth element travel during expansion and contraction.

DESIGN DATA

COMMERCIAL FINNED TUBE RATING CORRECTION CHARTS

CATALOG FINNED TUBE RATINGS ARE BASED UPON THE FOLLOWING CONDITIONS:

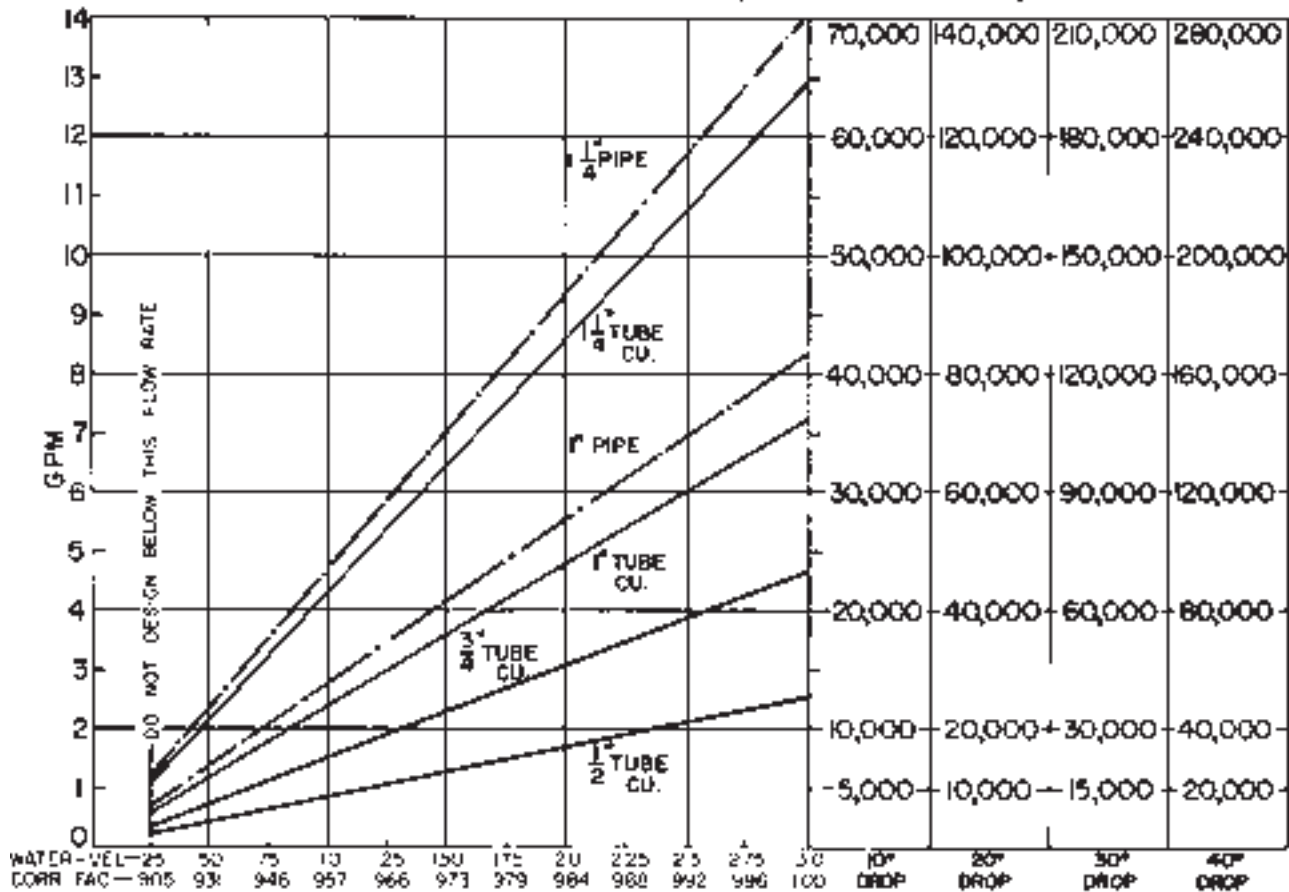
- 215°F AVERAGE WATER OR STEAM TEMPERATURE
- 65°F ENTERING AIR TEMPERATURE
- 3 FEET PER SECOND WATER FLOW RATE
- CATALOG MOUNTING HEIGHT

USE THE FOLLOWING CALCULATION WITH CORRECTION FACTORS FOR JOB CONDITIONS TO DETERMINE CORRECTED RATING:

$$\text{CORRECTED RATING} = (\text{215°F CATALOG RATING}) \times \left(\frac{\text{CORRECTION FACTOR FOR STEAM OR WATER AND AVERAGE AIR TEMP.}}{\text{CORRECTION FACTOR FOR MOUNTING HTG.-SEE CATALOG RATING}} \right) \times \left(\frac{\text{CORRECTION FACTOR FOR FLOW RATE}}{\text{CORRECTION FACTOR FOR MOUNTING HTG.-SEE CATALOG RATING}} \right)$$

USE THE FOLLOWING CHARTS TO SELECT CORRECTION FACTORS

CHART/WATER VEL./CORR. FACTOR / PRESS. DROP/TOTAL BTU.

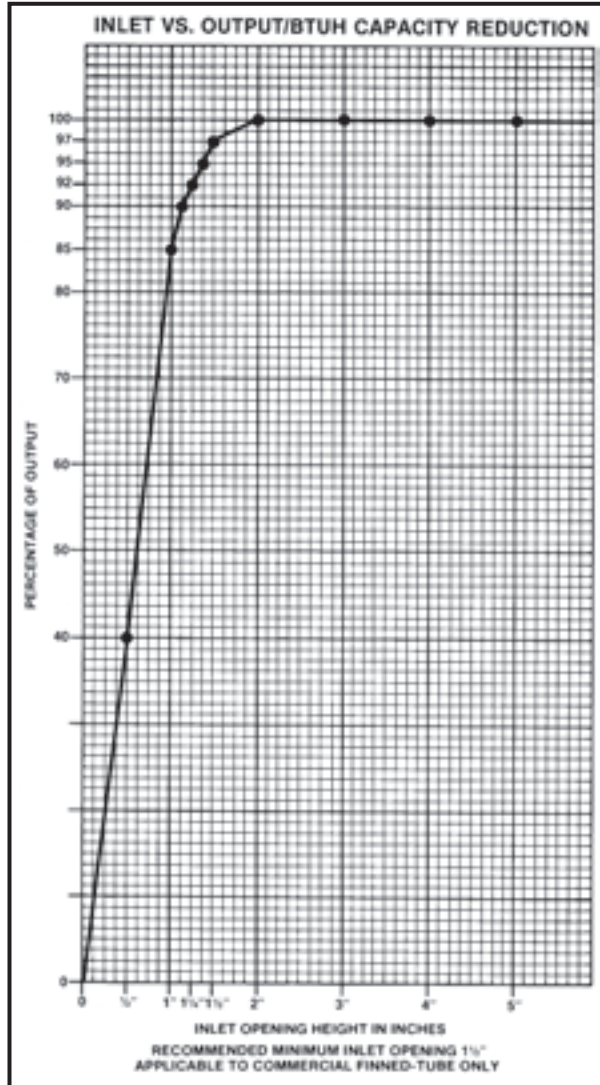


| | | | | | | |
|-----------------|-----|-----|-----|-----|-----|-----|
| 1/2" COP ALUM | 180 | 233 | 333 | 416 | 540 | 625 |
| 3/4" COP ALUM | 5 | 10 | 16 | 25 | 34 | 45 |
| 1" COP ALUM | 233 | 41 | 83 | 145 | 216 | 283 |
| 1" PIPE | 37 | 79 | 13 | 200 | 270 | 370 |
| 1 1/2" COP ALUM | 18 | 33 | 55 | 79 | 108 | 133 |
| 1 1/2" PIPE | 09 | 18 | 31 | 5 | 70 | 10 |

} PRESSURE DROP PER
100 LINEAR FT. IN
FEET OF HEAD

DESIGN DATA

INLET AIR CORRECTION FACTOR



GLYCOL CORRECTION FACTORS

Fluid Temperature 200°F

| % Solution | Ethylene Glycol | Propylene Glycol |
|------------|-----------------|------------------|
| 20 | .952 | .988 |
| 30 | .921 | .968 |
| 40 | .888 | .943 |
| 50 | .852 | .912 |

Fluid Temperature 180°F

| % Solution | Ethylene Glycol | Propylene Glycol |
|------------|-----------------|------------------|
| 20 | .946 | .982 |
| 30 | .913 | .961 |
| 40 | .879 | .934 |
| 50 | .842 | .902 |

Fluid Temperature 140°F

| % Solution | Ethylene Glycol | Propylene Glycol |
|------------|-----------------|------------------|
| 20 | .934 | .97 |
| 30 | .898 | .946 |
| 40 | .861 | .916 |
| 50 | .821 | .881 |

GUARANTEED WORKING PRESSURES

- 1" IPS — 780 AT TEMPERATURES UP TO 650°F.
- 1 1/4" IPS — 660 AT TEMPERATURES UP TO 650°F.
- 2" IPS — 405 AT TEMPERATURES UP TO 650°F.
- 1 1/4" CU — 194 AT TEMPERATURES UP TO 300°F.
- 1" CU — 204 AT TEMPERATURES UP TO 300°F.
- 3/4" CU — 218 PSI AT TEMPERATURES UP TO 300°F.

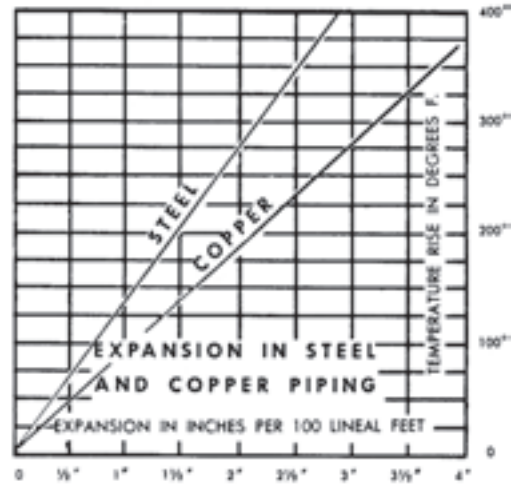
MAXIMUM PRESSURES AT OTHER TEMPERATURES ARE AVAILABLE UPON REQUEST.

RATE OF PITCH FOR STEAM 1/2" DROP OVER 20 FT. RUN.

| PIPE WATER CAPACITIES AND QUANTITIES CIRCULATED AT VELOCITY OF 3* FEET PER SECOND | | | |
|--|----------------------|----------------------------|--------------------------|
| Pipe Size | Gals. Per Linear Ft. | Gals./Min. @ 3' Sec. Vel.* | Lbs./Hr. @ 3' Sec. Vel.* |
| 1/2" | .016 | 2.88 | 1440 |
| 3/4" | .023 | 4.14 | 2070 |
| 1" | .040 | 7.20 | 3600 |
| 1 1/4" | .063 | 11.34 | 5660 |
| 1 1/2" | .102 | 18.36 | 9160 |
| 2" | .170 | 30.60 | 15300 |
| 2 1/2" | .275 | 49.50 | 24850 |
| 3" | .390 | 70.20 | 35000 |

*3 Ft./Sec. Velocity is Basic for Hot Water Rating Factors Shown on this Page.

$$\text{VELOCITY FT./SEC.} = \frac{\text{LBS. PER HOUR}}{(\text{GALS. PER FT.}) (3600) (8.3)}$$



ALTITUDE FACTORS

Approximate factors for convective heat value at varying altitudes

| Altitude | Ferrous Units | Copper Alum. Units |
|------------|---------------|--------------------|
| Sea Level | 1.000 | 1.000 |
| 1,000 ft. | .984 | .969 |
| 2,000 ft. | .968 | .938 |
| 3,000 ft. | .952 | .908 |
| 4,000 ft. | .936 | .878 |
| 5,000 ft. | .920 | .850 |
| 6,000 ft. | .904 | .822 |
| 7,000 ft. | .889 | .795 |
| 8,000 ft. | .874 | .768 |
| 9,000 ft. | .859 | .743 |
| 10,000 ft. | .844 | .718 |
| 15,000 ft. | .771 | .603 |
| 20,000 ft. | .703 | .502 |

CORRECTION FACTORS FOR STEAM PRESSURES AND AIR TEMPERATURES OTHER THAN STANDARD

| STEAM | | ▼ ENTERING AIR TEMPERATURE, °F | | | | | | | | | | | | | | |
|--------------|----------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Pressure | | Temp. | STD | | | | | | | | | | | | | |
| Gauge | Abs. Psi | °F | 45 | 55 | 65 | 70 | 75 | 80 | 85 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
| (Vac) 15" Hg | 7.32 | 178.9 | 0.90 | 0.80 | 0.70 | 0.65 | 0.60 | 0.56 | 0.51 | 0.45 | 0.39 | 0.32 | 0.25 | 0.18 | 0.13 | 0.08 |
| (Vac) 10" | 9.78 | 192.2 | 1.02 | 0.91 | 0.81 | 0.76 | 0.71 | 0.66 | 0.62 | 0.55 | 0.48 | 0.40 | 0.33 | 0.26 | 0.20 | 0.14 |
| (Vac) 5" | 12.25 | 202.9 | 1.11 | 1.00 | 0.90 | 0.85 | 0.79 | 0.75 | 0.70 | 0.63 | 0.56 | 0.48 | 0.40 | 0.33 | 0.27 | 0.20 |
| (Vac) 0 Psi | 14.696 | 212.0 | 1.19 | 1.09 | 0.97 | 0.92 | 0.87 | 0.82 | 0.77 | 0.70 | 0.63 | 0.54 | 0.46 | 0.38 | 0.31 | 0.25 |
| ▶ .899 | 15.595 | 215.0 | 1.22 | 1.11 | 1.00 | 0.95 | 0.90 | 0.84 | 0.80 | 0.75 | 0.65 | 0.57 | 0.48 | 0.40 | 0.33 | 0.26 |
| 5 | 19.70 | 227.1 | 1.34 | 1.22 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.81 | 0.75 | 0.66 | 0.57 | 0.49 | 0.41 | 0.34 |
| 10 | 24.70 | 239.4 | 1.45 | 1.33 | 1.22 | 1.17 | 1.11 | 1.05 | 1.00 | 0.91 | 0.85 | 0.75 | 0.66 | 0.58 | 0.50 | 0.42 |
| 15 | 29.70 | 249.8 | 1.55 | 1.43 | 1.31 | 1.26 | 1.20 | 1.14 | 1.09 | 1.00 | 0.94 | 0.84 | 0.75 | 0.66 | 0.57 | 0.49 |
| 20 | 34.70 | 258.8 | 1.63 | 1.52 | 1.40 | 1.33 | 1.28 | 1.23 | 1.17 | 1.07 | 1.02 | 0.92 | 0.82 | 0.73 | 0.64 | 0.55 |
| 25 | 39.70 | 266.8 | 1.71 | 1.59 | 1.47 | 1.41 | 1.36 | 1.30 | 1.25 | 1.15 | 1.09 | 0.98 | 0.89 | 0.80 | 0.71 | 0.62 |
| 30 | 44.70 | 274.0 | 1.78 | 1.66 | 1.54 | 1.48 | 1.42 | 1.37 | 1.31 | 1.21 | 1.15 | 1.05 | 0.95 | 0.85 | 0.76 | 0.68 |
| 40 | 54.70 | 286.7 | 1.91 | 1.79 | 1.66 | 1.61 | 1.54 | 1.49 | 1.43 | 1.32 | 1.27 | 1.16 | 1.06 | 0.97 | 0.87 | 0.78 |
| 50 | 64.70 | 297.7 | 2.02 | 1.90 | 1.77 | 1.71 | 1.65 | 1.60 | 1.54 | 1.42 | 1.37 | 1.26 | 1.16 | 1.06 | 0.96 | 0.87 |
| 60 | 74.70 | 307.3 | 2.10 | 2.00 | 1.87 | 1.81 | 1.75 | 1.69 | 1.63 | 1.51 | 1.47 | 1.35 | 1.25 | 1.15 | 1.05 | 0.95 |
| 70 | 84.70 | 316.0 | 2.20 | 2.09 | 1.95 | 1.89 | 1.83 | 1.77 | 1.71 | 1.59 | 1.55 | 1.44 | 1.33 | 1.23 | 1.12 | 1.03 |
| 80 | 94.70 | 323.9 | 2.27 | 2.17 | 2.03 | 1.97 | 1.91 | 1.85 | 1.80 | 1.69 | 1.63 | 1.52 | 1.41 | 1.31 | 1.20 | 1.10 |
| 90 | 104.70 | 331.2 | 2.36 | 2.24 | 2.11 | 2.05 | 1.98 | 1.93 | 1.87 | 1.74 | 1.70 | 1.59 | 1.48 | 1.38 | 1.28 | 1.17 |
| 100 | 114.70 | 337.9 | 2.43 | 2.31 | 2.18 | 2.11 | 2.05 | 2.00 | 1.94 | 1.81 | 1.77 | 1.65 | 1.54 | 1.44 | 1.33 | 1.23 |
| 125 | 139.70 | 352.9 | 2.59 | 2.47 | 2.33 | 2.27 | 2.21 | 2.16 | 2.10 | 1.96 | 1.92 | 1.80 | 1.69 | 1.59 | 1.48 | 1.38 |
| 150 | 164.70 | 365.9 | 2.73 | 2.62 | 2.47 | 2.43 | 2.35 | 2.29 | 2.23 | 2.08 | 2.05 | 1.94 | 1.82 | 1.72 | 1.61 | 1.51 |
| 175 | 189.70 | 377.4 | 2.86 | 2.74 | 2.60 | 2.54 | 2.47 | 2.41 | 2.35 | 2.21 | 2.17 | 2.05 | 1.95 | 1.85 | 1.73 | 1.63 |
| 200 | 214.70 | 387.8 | 2.95 | 2.85 | 2.71 | 2.63 | 2.58 | 2.52 | 2.47 | 2.31 | 2.29 | 2.17 | 2.06 | 1.96 | 1.84 | 1.75 |

From Keenan and Keyes — Linear Interpolation.

Note: Gauge pressure should be corrected for altitude.

CORRECTION FACTORS FOR WATER TEMPERATURES AND AIR TEMPERATURES OTHER THAN STANDARD

| AVERAGE WATER TEMP. °F | ▼ ENTERING AIR TEMPERATURE, °F | | | | | | | | | | | | | | | |
|---------------------------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 45 | 55 | STD | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 130 | 140 | 150 |
| 90 | .19 | .13 | .11 | .06 | | | | | | | | | | | | |
| 100 | .25 | .19 | .15 | .11 | .08 | .06 | | | | | | | | | | |
| 110 | .31 | .25 | .20 | .16 | .13 | .11 | .08 | .06 | | | | | | | | |
| 120 | .38 | .31 | .26 | .21 | .19 | .16 | .13 | .11 | .08 | .06 | | | | | | |
| 130 | .45 | .38 | .33 | .28 | .25 | .21 | .19 | .16 | .13 | .11 | .06 | | | | | |
| 140 | .53 | .45 | .40 | .34 | .31 | .28 | .25 | .21 | .19 | .16 | .11 | .06 | | | | |
| 150 | .61 | .53 | .45 | .41 | .38 | .34 | .31 | .28 | .25 | .21 | .16 | .11 | .06 | | | |
| 160 | .69 | .61 | .53 | .49 | .45 | .41 | .38 | .34 | .31 | .28 | .21 | .16 | .11 | .06 | | |
| 170 | .77 | .69 | .61 | .57 | .53 | .49 | .45 | .41 | .38 | .34 | .28 | .21 | .16 | .11 | .06 | |
| 180 | .86 | .77 | .69 | .65 | .61 | .57 | .53 | .49 | .45 | .41 | .34 | .28 | .21 | .16 | .11 | |
| 190 | .95 | .86 | .78 | .73 | .69 | .65 | .61 | .57 | .53 | .49 | .41 | .34 | .28 | .21 | .16 | |
| 200 | 1.05 | .95 | .86 | .82 | .77 | .73 | .69 | .65 | .61 | .57 | .49 | .41 | .34 | .28 | .21 | |
| 210 | 1.14 | 1.05 | .95 | .91 | .86 | .82 | .77 | .73 | .69 | .65 | .57 | .49 | .41 | .34 | .28 | |
| ▶ 215 (STD.) | 1.19 | 1.09 | 1.00 | .95 | .91 | .86 | .82 | .77 | .73 | .69 | .61 | .53 | .45 | .38 | .31 | |
| 220 | 1.24 | 1.14 | 1.05 | 1.00 | .95 | .91 | .86 | .82 | .77 | .73 | .65 | .57 | .49 | .41 | .34 | |
| 230 | 1.34 | 1.24 | 1.14 | 1.09 | 1.05 | 1.00 | .95 | .91 | .86 | .82 | .73 | .65 | .57 | .49 | .41 | |
| 240 | 1.44 | 1.34 | 1.25 | 1.19 | 1.14 | 1.09 | 1.05 | 1.00 | .95 | .91 | .82 | .73 | .65 | .57 | .49 | |
| 250 | 1.55 | 1.44 | 1.34 | 1.29 | 1.24 | 1.19 | 1.14 | 1.09 | 1.05 | 1.00 | .91 | .82 | .73 | .65 | .57 | |
| 260 | 1.66 | 1.55 | 1.44 | 1.39 | 1.34 | 1.29 | 1.24 | 1.19 | 1.14 | 1.09 | 1.00 | .91 | .82 | .73 | .65 | |
| 270 | 1.76 | 1.66 | 1.55 | 1.50 | 1.44 | 1.39 | 1.34 | 1.29 | 1.24 | 1.19 | 1.09 | 1.00 | .91 | .82 | .73 | |
| 280 | 1.87 | 1.76 | 1.66 | 1.60 | 1.55 | 1.50 | 1.44 | 1.39 | 1.34 | 1.29 | 1.19 | 1.09 | 1.00 | .91 | .82 | |
| 290 | 1.99 | 1.87 | 1.76 | 1.71 | 1.66 | 1.60 | 1.55 | 1.50 | 1.44 | 1.39 | 1.29 | 1.19 | 1.09 | 1.00 | .91 | |
| 300 | 2.10 | 1.99 | 1.87 | 1.82 | 1.76 | 1.71 | 1.66 | 1.60 | 1.55 | 1.50 | 1.39 | 1.29 | 1.19 | 1.09 | 1.00 | 1.00 |

DESIGN FEATURES

Enclosures

Both the standard wiped edge Classic and the “J” slip-jointed Classic incorporate durable extruded aluminum, clear anodized, **pencil proof grilles**, attached to rugged 14 gauge internal gussets. The grille/gusset design provides for concealed engagement with backplate, yet allows for easy installation without marking or scratching of the wall surface. The Classic line offers both internally telescoping accessories or the “J” style overlapping accessories (See photos A and B). All accessories engage between backplate and the wall at the top and return to wall at the bottom. Pre-punched holes are provided to allow for anchoring with fasteners by others. Both of the Classic styles utilize either full or partial backplate. Brackets and hangers are interchangeable between both types. The aesthetically pleasing enclosures are available in a wide range of material thickness and types with a selection of standard baked powder colors. Special colors are available with approved paint chips.

Brackets and Element Support Hangers Wall or Bracket Mounted

All brackets and element support hangers are die-formed, wiped edge channel type construction which provides the strongest and most rigid support for the enclosure and element available anywhere. The standard bracket (D) is used with an adjustable bracket mounted element support. This will allow vertical movement of the element simply by loosening a nut. Silent glide action is provided by the nickel chromium plated ball bearings encased in a rugged nylon insert. The isolation effect on the nylon material creates an optimum noise deadening condition and therefore, element expansion noise is virtually eliminated. (See photo D.)

The water brackets (E) (F) are also available with the silent glide ball bearing assembly directly mounted so that the element support hanger is eliminated when pitch is not required. These water brackets allow an even faster installation.

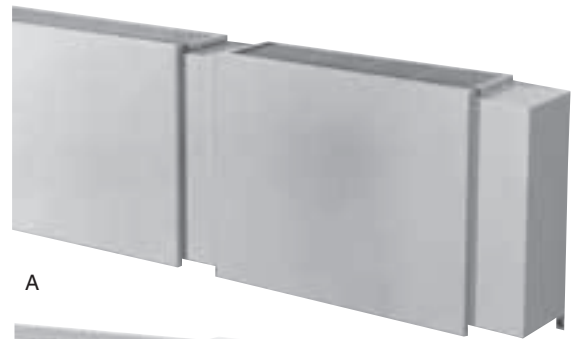
All elements are nested onto a die-formed 18 gauge galvanized slide cradle which rests on the silent glide ball bearings. These slide cradles are designed to support the element tube or pipe only, so that fin drag will not create undesirable noise. (See photos D and E.) Lateral movement up to 3” is available for expansion and contraction.

Enclosure brackets are formed at the top to engage the top inside bend of either the partial or full backplate. This automatic locating design simplifies installation and helps keep costs down. (See photos C, D and E.)

All enclosure brackets (standard or water type) are provided with posi-lock enclosures locks. These provide a quick and sure method of securing the enclosure to the bracket and deters vandalism. The bracket is designed to positively snap and secure the enclosure bottom. The posi-lock makes sure it stays there, no matter what. The posi-lock also provides the additional holding force for those installations that require the enclosure assembly to be mounted in an inverted position. (See photo F.)

Roll Pipe Hangers

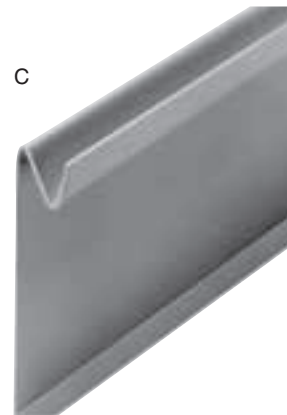
These are designed to support the supply or return pipes within the enclosures. The nylon insert acts as an isolator so that pipe noise is not transmitted as readily through the enclosure. Smooth lateral movement is a definite plus. (See photo G.)



A



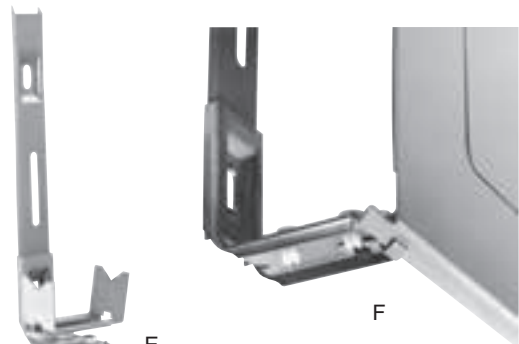
B



C



D



E

F



G

CLASSIC SPECIAL GENERAL SPECIFICATIONS

Furnish and install where shown on all plans/drawings, Vulcan Classic Finned Tube Assemblies as described in the specifications below or approved equal quality and capacity.

HEATING ELEMENTS

All copper/aluminum heating elements shall be manufactured with seamless copper tubing mechanically expanded into the diameter of the equally spaced aluminum fins. The ends of the copper tube shall be finished O.D. (male) and finished I.D. (female, swaged) as to allow the use of standard domestic copper fittings.

All steel heating elements shall be manufactured with steel pressure tubing mechanically expanded into the diameter of the equally spaced steel (.024, .032) fins. The ends of the steel tube shall be threaded to accept all domestic NPT threaded fittings or cut square and chamfered for welding in field. All steel fins shall be pre-painted black with an enamel based black paint.

BACKPLATE

All full backplates will be one piece construction, 20 gauge galvanized steel (18 gauge optional) with a die-formed mounting channel into which the enclosure shall self-locate and secure. Self-adhesive closed cell neoprene air seal gasket to be provided when requested to prevent dirt streaking (specify factory or field installed).

All partial backplates are to be machine roll formed, pre-painted, 20 gauge steel with formed mounting channel into which the enclosure shall self-locate and secure. 18 gauge partial backplates will be provided as galvanized finish. Self-adhesive closed cell neoprene air seal gasket to be provided when requested to prevent dirt streaking (specify factory or field installed).

BRACKET HANGERS

All brackets and hangers are to be die-formed 14 gauge galvanized steel with channel type wiped edge construction for rigidity. Nickel-chromium plated ball bearings inserted into a nylon isolator insert are to be used in conjunction with an 18 gauge galvanized die-formed element support cradle to provide friction free lateral movement during expansion and contraction. Brackets are to have pre-formed contour at the top allowing the bracket to interlock with the backplate channel. Brackets are to be self-locating in the vertical (height) position. Hangers are to provide for vertical element adjustment when pitch is required (steam). Water jobs will not require adjustable hangers. Full engagement enclosure locks are to be supplied with each bracket. Bracket locations are recommended to be 2'6" to 4'0" on center located not more than 12" in from ends of enclosure based on individual design applications.

ENCLOSURE AND ACCESSORIES

"Standard Classic" Finned Tube Enclosures are to be of style and size as shown on plans.

Material will be 16 gauge standard, 14 gauge optional, cold rolled steel with a baked powder finish. Internally welded 14 gauge gussets shall occur at regular intervals to which the "pencil proof" clear anodized extruded aluminum grille will be affixed. The 14 gauge gussets are designed to engage the backplate at installation, and at the same time provide location and support for damper pivot pins when required. All enclosure ends shall have a wiped edge perpendicular to the vertical skirt, allowing the edge to rest upon the underlapping accessories or provide a clean, smooth seam when mounted with adjacent cover.

Accessories will be internally telescoping within the standard Classic enclosure. The top rear flange shall mount between the backplate and wall, while the bottom flange with pre-punched holes will be secured to the wall after location. All accessories can be mounted prior to cover to allow for adjustments.

"J Classic" Finned Tube Enclosures are to be of style and size as shown on plans. Material will be 16 gauge standard, 14 gauge optional, cold rolled steel with a baked powder finish. Internally welded 14 gauge gussets shall occur at regular intervals to which the "pencil proof" clear anodized extruded aluminum grille will be affixed. The gussets are designed to engage the backplate at installation and, at the same time, provide location and support for damper pivot pins when required. All enclosures will be manufactured with male and female slip joints at opposing ends, providing positive engagement and alignment of adjoining enclosures at installation. The slip joints are to be of such design and form that they will provide vertical stiffening for the front skirt.

Accessories will be overlapping design and will provide a raised border appearance resulting from the wiped edge on both sides. The wiped edge flange of the accessories provides vertical stiffening action. The top rear flange shall mount between the backplate and the wall, while the bottom flange with pre-punched holes will be secured to the wall after location. All accessories will be mounted after the enclosure is set and adjustments made.

ACCESS DOORS

When indicated, access doors will be provided at mixer, shut-off or flow control valves. Doors will be 6" x 9" (or 5" x 6") and hinged at top. Access doors will be located in accessories or enclosure as noted on plans. Door latch head shall be of tamper resistant type.

DAMPERS

Dampers will be provided where indicated on plans. Damper blades will have rolled edges for rigidity. Damper actuation will be controlled by dial or tamper resistant operator. "4" offset enclosure can be provided with optional slide damper.

OTHER PRODUCTS FOR COMMERCIAL APPLICATIONS

LINOVECTOR II

Linovector II Finned Tube Radiation is Vulcan's most versatile and flexible, multi-purpose commercial hydronic heating enclosure line. It provides users an outstanding BTU output/penny of cost. Linovector II offers contractors and engineers a full range of enclosure styles, heights, depths, lengths and element selections. Known in the trade as a reliable workhorse, Linovector II features include small tube sizes and low water temperature ratings.

ASK FOR LINOVECTOR II CATALOG

“SPECIALS” — CUSTOM ENCLOSURES

When you cannot find exactly what you want in any of the Commercial Finned Tube catalogs, it does not mean that it cannot be made. Vulcan Radiator has been providing specially designed enclosures, cabinets, sills, stools, curtain pockets and anything that you would associate with sheet metal for decades. From curved wall conditions to fan coil enclosures, Vulcan's quality engineering and manufacturing is combined to yield the highest quality products available. No challenge is too great for us. We like to think that Vulcan can build a better mousetrap. Call your Vulcan representative and discuss your innovative ideas with them.

CONSULT YOUR REPRESENTATIVE

LIMITED WARRANTY COMMERCIAL FINNED TUBE RADIATION

1. The Manufacturer warrants to the original owner at the original installation site that the Commercial Finned Tube (the "Product") will be free from defects in material or workmanship for a period not to exceed (1) year from date of shipment from the factory. If upon examination by the Manufacturer the Product is shown to have a defect in material or workmanship during the warranty period, the Manufacturer will repair or replace, at its option, that part of the Product which is shown to be defective.
2. This limited warranty does not apply:
 - (a) if the Product has been subjected to misuse or neglect, has been accidentally or intentionally damaged, has not been installed, maintained or operated in accordance with the furnished written instructions, or has been altered or modified in any way by any unauthorized person.
 - (b) to any expenses, including labor or material, incurred during removal or reinstallation of the defective Product or part thereof.
 - (c) to any workmanship of any installer of the Product.
3. This limited warranty is conditional upon:
 - (a) shipment, to Manufacturer, of that part of the Product thought to be defective. Goods may only be returned with the prior written approval of the Manufacturer. All returns must be freight prepaid.
 - (b) determination in the reasonable opinion of the Manufacturer that there exists a defect in material or workmanship.
4. Repair or replacement of any part under this Limited Warranty shall not extend the duration of the warranty with respect to such repaired or replaced part beyond the stated warranty period
5. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, AND ALL SUCH OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED FROM THIS LIMITED WARRANTY. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE IN ANY WAY FOR ANY CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES OF ANY NATURE WHATSOEVER, OR FOR ANY AMOUNTS IN EXCESS OF THE SELLING PRICE OF THE PRODUCT OR ANY PARTS THEREOF FOUND TO BE DEFECTIVE. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY BY EACH JURISDICTION.



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