

## Submittal

SR-A / SRG-A  
Flat Top Cabinet  
Semi-Recessed  
3 Sided Overlap

☐ **SR-A Open Inlet**

**FRONT and LINER:**

STYLE: Front Outlet  
OUTLET: Stamped Louvers  
Pencil Proof

LENGTHS: 20" thru 64" in 4" Increments

MAT'L: Cabinet Front and Liner

- ☐ 18 Ga./20 Ga. CRS (Std)\*
- ☐ 18 Ga./18 Ga. CRS (Opt'l)
- ☐ 16 Ga./20 Ga. CRS (Opt'l)\*
- ☐ 16 Ga./18 Ga. CRS (Opt'l)
- ☐ 16 Ga./16 Ga. CRS (Opt'l)
- ☐ 14 Ga./20 Ga. CRS (Opt'l)\*
- ☐ 14 Ga./18 Ga. CRS (Opt'l)
- ☐ 14 Ga./16 Ga. CRS (Opt'l)
- ☐ 14 Ga./14 Ga. CRS (Opt'l)

\*Liner is Galvannealed Steel

FINISH:

- ☐ Baked Powder Prime
- ☐ Baked Powder Color (Opt'l)
- ☐ 18 Ga./20 Ga. SS (Opt'l)
- ☐ 18 Ga./18 Ga. SS (Opt'l)
- ☐ 16 Ga./20 Ga. SS (Opt'l)
- ☐ 16 Ga./18 Ga. SS (Opt'l)
- ☐ 16 Ga./16 Ga. SS (Opt'l)

**ELEMENT:**

COIL: Bronze Header 3/4" NPT  
w/Copper Tube/Alum Fins  
(Mechanically Expanded).

HEADER CONNECTIONS:

- ☐ Single Header Both Ends (Std)
- ☐ Single Inlet 1 End / Dual Inlet 1 End (Opt'l)
- ☐ Dual Inlet Both Ends (Opt'l)

☐ **SRG-A Louvered Inlet**

### OPTIONAL ACCESSORIES:

DAMPER: Damper Blades Factory Installed  
☐ Knob Damper (Opt'l)  
☐ Tamper Resistant (Opt'l)

ACCESS DOORS:

□ (Opt'l)

INSULATION:

☐ Back Only (Opt'l)  
☐ Back, Sides, Top (Opt'l)

### PIPING KNOCKOUT:

□ (Opt'1)

4" END POCKETS:

- ☐ LH (Opt'l)
- ☐ RH (Opt'l)
- ☐ Both Ends (Opt'l)

PERFORATED FRONT: Consult Factory

☐ 16 Ga. (Opt'l)

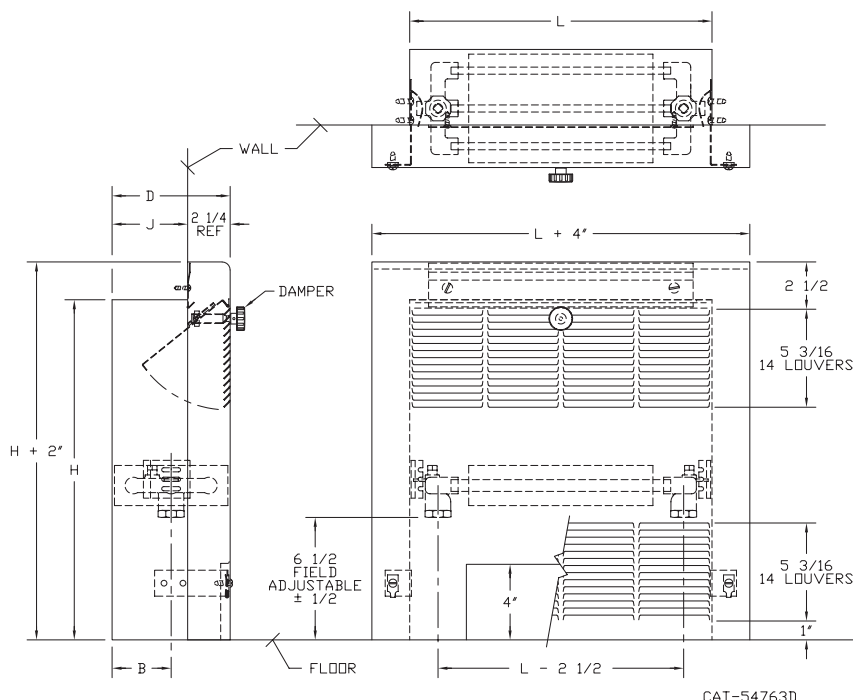
☐ 14 Ga. (Opt'l)

☐ **SR-A Open Inlet**

### SRG-A Louvered Inlet

## TYPE SR-A / SRG-A

| MODEL                                          | D     | L                                                | H                          | B     | J |
|------------------------------------------------|-------|--------------------------------------------------|----------------------------|-------|---|
| 4xx-16<br>4xx-18<br>4xx-22<br>4xx-24<br>4xx-30 | 4-1/4 | 20,24,28,<br>32,36,40,<br>44,48,52,<br>56,60,64, | 16<br>18<br>22<br>24<br>30 | 2-1/8 | 2 |
| 6xx-16<br>6xx-18<br>6xx-22<br>6xx-24<br>6xx-30 | 6-1/4 | 20,24,28,<br>32,36,40,<br>44,48,52,<br>56,60,64, | 16<br>18<br>22<br>24<br>30 | 3-1/8 | 4 |
| 8xx-16<br>8xx-18<br>8xx-22<br>8xx-24<br>8xx-30 | 8-1/4 | 20,24,28,<br>32,36,40,<br>44,48,52,<br>56,60,64, | 16<br>18<br>22<br>24<br>30 | 4-1/8 | 6 |



**NOTE:** When adding end pockets, liner and front length increase.



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[www.turboncinc.com](http://www.turboncinc.com)

PROJECT: \_\_\_\_\_ DATE: \_\_\_\_\_

**LOCATION:**

ARCHITECT:

ENGINEER: \_\_\_\_\_

**CONTRACTOR:** \_\_\_\_\_

PO NUMBER:



## STEAM RATINGS IN BTU/H (215°F at 65°F EAT)

| DEPTH<br>IN<br>INCHES | LENGTH<br>IN<br>INCHES | FRONT OUTLET, NOMINAL LINER HEIGHT<br>*TYPE SR-A |       |       |       |       |
|-----------------------|------------------------|--------------------------------------------------|-------|-------|-------|-------|
|                       |                        | 16"                                              | 18"   | 22"   | 24"   | 30"   |
| 4                     | 20                     | 2230                                             | 2495  | 2830  | 2930  | 3120  |
|                       | 24                     | 2760                                             | 3145  | 3625  | 3720  | 3985  |
|                       | 28                     | 3310                                             | 3815  | 4345  | 4465  | 4775  |
|                       | 32                     | 3865                                             | 4490  | 5110  | 5255  | 5665  |
|                       | 36                     | 4370                                             | 5160  | 5880  | 6025  | 6505  |
|                       | 40                     | 4895                                             | 5810  | 6600  | 6790  | 7320  |
|                       | 44                     | 5425                                             | 6480  | 7390  | 7560  | 8160  |
|                       | 48                     | 5950                                             | 7105  | 8110  | 8350  | 8975  |
|                       | 52                     | 6550                                             | 7800  | 8855  | 9070  | 9745  |
|                       | 56                     | 7030                                             | 8450  | 9625  | 9865  | 10630 |
|                       | 60                     | 7655                                             | 9120  | 10345 | 10610 | 11400 |
|                       | 64                     | 8135                                             | 9790  | 11135 | 11400 | 12290 |
| 6                     | 20                     | 3240                                             | 3625  | 4250  | 4390  | 4850  |
|                       | 24                     | 4030                                             | 4560  | 5375  | 5570  | 6170  |
|                       | 28                     | 4850                                             | 5520  | 6480  | 6670  | 7370  |
|                       | 32                     | 5615                                             | 6480  | 7610  | 7870  | 8690  |
|                       | 36                     | 6430                                             | 7390  | 8690  | 9025  | 9935  |
|                       | 40                     | 7250                                             | 8375  | 9815  | 10200 | 11230 |
|                       | 44                     | 8065                                             | 9290  | 10920 | 11350 | 12480 |
|                       | 48                     | 8880                                             | 10250 | 12025 | 12455 | 13705 |
|                       | 52                     | 9745                                             | 11185 | 13105 | 13535 | 14905 |
|                       | 56                     | 10510                                            | 12145 | 14230 | 14735 | 16225 |
|                       | 60                     | 11400                                            | 13055 | 15310 | 15840 | 17425 |
|                       | 64                     | 12190                                            | 14040 | 16440 | 17065 | 18770 |
| 8                     | 20                     | 4030                                             | 4535  | 5040  | 5135  | 5570  |
|                       | 24                     | 5110                                             | 5760  | 6360  | 6575  | 7105  |
|                       | 28                     | 6385                                             | 6960  | 7680  | 7895  | 8520  |
|                       | 32                     | 7560                                             | 8185  | 9025  | 9310  | 10055 |
|                       | 36                     | 8710                                             | 9385  | 10390 | 10705 | 11545 |
|                       | 40                     | 9865                                             | 10630 | 11760 | 12070 | 13055 |
|                       | 44                     | 11040                                            | 11830 | 13055 | 13440 | 14545 |
|                       | 48                     | 11950                                            | 12935 | 14400 | 14810 | 16080 |
|                       | 52                     | 13465                                            | 14230 | 15670 | 16105 | 17425 |
|                       | 56                     | 14615                                            | 15505 | 17090 | 17570 | 19010 |
|                       | 60                     | 15770                                            | 16655 | 18335 | 18840 | 20375 |
|                       | 64                     | 16775                                            | 17880 | 19750 | 20330 | 21960 |

| DEPTH<br>IN<br>INCHES | LENGTH<br>IN<br>INCHES | FRONT OUTLET, NOMINAL LINER HEIGHT<br>*TYPE SRG-A |       |       |       |       |
|-----------------------|------------------------|---------------------------------------------------|-------|-------|-------|-------|
|                       |                        | 16"                                               | 18"   | 22"   | 24"   | 30"   |
| 4                     | 20                     | 2163                                              | 2420  | 2773  | 2871  | 3089  |
|                       | 24                     | 2677                                              | 3051  | 3553  | 3646  | 3945  |
|                       | 28                     | 3211                                              | 3701  | 4258  | 4376  | 4727  |
|                       | 32                     | 3749                                              | 4355  | 5008  | 5150  | 5608  |
|                       | 36                     | 4239                                              | 5005  | 5762  | 5905  | 6440  |
|                       | 40                     | 4748                                              | 5636  | 6468  | 6654  | 7247  |
|                       | 44                     | 5262                                              | 6286  | 7242  | 7409  | 8078  |
|                       | 48                     | 5772                                              | 6892  | 7948  | 8183  | 8885  |
|                       | 52                     | 6354                                              | 7566  | 8678  | 8889  | 9648  |
|                       | 56                     | 6819                                              | 8197  | 9433  | 9668  | 10524 |
|                       | 60                     | 7425                                              | 8846  | 10138 | 10398 | 11286 |
|                       | 64                     | 7891                                              | 9496  | 10912 | 11172 | 12167 |
| 6                     | 20                     | 3046                                              | 3408  | 4038  | 4171  | 4753  |
|                       | 24                     | 3788                                              | 4286  | 5106  | 5292  | 6047  |
|                       | 28                     | 4559                                              | 5189  | 6156  | 6337  | 7223  |
|                       | 32                     | 5278                                              | 6091  | 7230  | 7477  | 8516  |
|                       | 36                     | 6044                                              | 6947  | 8256  | 8574  | 9736  |
|                       | 40                     | 6815                                              | 7873  | 9324  | 9690  | 11005 |
|                       | 44                     | 7581                                              | 8733  | 10374 | 10783 | 12230 |
|                       | 48                     | 8347                                              | 9635  | 11424 | 11832 | 13431 |
|                       | 52                     | 9160                                              | 10514 | 12450 | 12858 | 14607 |
|                       | 56                     | 9879                                              | 11416 | 13519 | 13998 | 15901 |
|                       | 60                     | 10716                                             | 12272 | 14545 | 15048 | 17077 |
|                       | 64                     | 11459                                             | 13198 | 15618 | 16212 | 18395 |
| 8                     | 20                     | 3667                                              | 4127  | 4687  | 4776  | 5403  |
|                       | 24                     | 4650                                              | 5242  | 5915  | 6115  | 6892  |
|                       | 28                     | 5810                                              | 6334  | 7142  | 7342  | 8264  |
|                       | 32                     | 6880                                              | 7448  | 8393  | 8658  | 9753  |
|                       | 36                     | 7926                                              | 8540  | 9663  | 9956  | 11199 |
|                       | 40                     | 8977                                              | 9673  | 10937 | 11225 | 12663 |
|                       | 44                     | 10046                                             | 10765 | 12141 | 12499 | 14109 |
|                       | 48                     | 10875                                             | 11771 | 13392 | 13773 | 15598 |
|                       | 52                     | 12253                                             | 12949 | 14573 | 14978 | 16902 |
|                       | 56                     | 13300                                             | 14110 | 15894 | 16340 | 18440 |
|                       | 60                     | 14351                                             | 15156 | 17052 | 17521 | 19764 |
|                       | 64                     | 15265                                             | 16271 | 18368 | 18907 | 21301 |

Correction factors for BTU performance at different Average Water Temperatures, use correction factors from Table 3 of the Correction Factors page.

For other applicable correction factors see the Correction Factors page.

For assistance with ratings and selection, please use our online Specifier.

# CONVECTOR BTU CORRECTION FACTORS

**Table 3**

| <b>CONVECTOR CORRECTION FACTORS</b><br>Based on Section 35.4 ASHRAE HVAC Systems and Equipment |                               |      |      |      |      |
|------------------------------------------------------------------------------------------------|-------------------------------|------|------|------|------|
| AVERAGE WATER TEMPERATURE (°F)                                                                 | ENTERING AIR TEMPERATURE (°F) |      |      |      |      |
|                                                                                                | (STD)                         |      |      |      |      |
|                                                                                                | 55°                           | 60°  | 65°  | 70°  | 75°  |
| 100°                                                                                           | 0.17                          | 0.14 | 0.12 | 0.09 | 0.07 |
| 110°                                                                                           | 0.23                          | 0.20 | 0.17 | 0.14 | 0.12 |
| 120°                                                                                           | 0.29                          | 0.26 | 0.23 | 0.20 | 0.17 |
| 130°                                                                                           | 0.35                          | 0.32 | 0.29 | 0.26 | 0.23 |
| 140°                                                                                           | 0.43                          | 0.39 | 0.35 | 0.32 | 0.29 |
| 150°                                                                                           | 0.50                          | 0.46 | 0.43 | 0.39 | 0.35 |
| 160°                                                                                           | 0.58                          | 0.54 | 0.51 | 0.47 | 0.43 |
| 170°                                                                                           | 0.67                          | 0.63 | 0.58 | 0.54 | 0.51 |
| 180°                                                                                           | 0.76                          | 0.71 | 0.67 | 0.63 | 0.58 |
| 190°                                                                                           | 0.85                          | 0.81 | 0.76 | 0.71 | 0.67 |
| 200°                                                                                           | 0.95                          | 0.90 | 0.85 | 0.81 | 0.76 |
| 210°                                                                                           | 1.05                          | 1.00 | 0.95 | 0.90 | 0.85 |
| 215° (STD)                                                                                     | 1.10                          | 1.05 | 1.00 | 0.95 | 0.90 |
| 220°                                                                                           | 1.15                          | 1.10 | 1.05 | 1.00 | 0.95 |
| 230°                                                                                           | 1.26                          | 1.20 | 1.15 | 1.10 | 1.05 |
| 240°                                                                                           | 1.37                          | 1.32 | 1.26 | 1.21 | 1.15 |
| 250°                                                                                           | 1.47                          | 1.43 | 1.37 | 1.32 | 1.27 |

**Table 4**

| <b>CORRECTION FACTORS FOR STEAM PRESSURES OTHER THAN 1 PSI GAUGE*</b>      |                    |      |      |      |      |      |
|----------------------------------------------------------------------------|--------------------|------|------|------|------|------|
| FACTOR                                                                     | PRESSURE PSI GAUGE |      |      |      |      |      |
|                                                                            | 5                  | 10   | 15   | 20   | 25   | 50   |
|                                                                            | 1.12               | 1.25 | 1.36 | 1.46 | 1.56 | 1.93 |
| *Apply factors shown above to the ratings shown on the 215°F ratings page. |                    |      |      |      |      |      |

Note: Max Recommended operating pressure 150 PSIG, (365.9°F).  
For conversion from steam to hot water, use correction factors shown in Table 3.

**Table 5**

| CORRECTION FACTORS FOR ACCESS DOORS |                                                                |       |        |       |                                                                    |       |        |       |
|-------------------------------------|----------------------------------------------------------------|-------|--------|-------|--------------------------------------------------------------------|-------|--------|-------|
| Length                              | Free Standing, Non-Recessed Non-Standard Access Door Locations |       |        |       | Semi-Recessed or Fully Recessed Non-Standard Access Door Locations |       |        |       |
|                                     | 3 or 4                                                         | 3 & 4 | 5 or 6 | 5 & 6 | 3 or 4                                                             | 3 & 4 | 5 or 6 | 5 & 6 |
| 20"                                 | 0.940                                                          | 0.880 | 0.820  | 0.650 | 0.975                                                              | 0.950 | 0.925  | 0.850 |
| 24"                                 | 0.950                                                          | 0.910 | 0.860  | 0.720 | 0.980                                                              | 0.960 | 0.940  | 0.880 |
| 28"                                 | 0.960                                                          | 0.920 | 0.890  | 0.770 | 0.982                                                              | 0.968 | 0.948  | 0.902 |
| 32"                                 | 0.970                                                          | 0.940 | 0.890  | 0.800 | 0.985                                                              | 0.972 | 0.955  | 0.918 |
| 36"                                 | 0.970                                                          | 0.940 | 0.920  | 0.830 | 0.988                                                              | 0.975 | 0.962  | 0.925 |
| 40"                                 | 0.970                                                          | 0.950 | 0.920  | 0.850 | 0.990                                                              | 0.978 | 0.970  | 0.932 |
| 44"                                 | 0.980                                                          | 0.950 | 0.930  | 0.860 | 0.990                                                              | 0.980 | 0.970  | 0.940 |
| 48"                                 | 0.980                                                          | 0.960 | 0.940  | 0.880 | 0.990                                                              | 0.982 | 0.970  | 0.948 |
| 52"                                 | 0.980                                                          | 0.960 | 0.950  | 0.890 | 0.992                                                              | 0.985 | 0.978  | 0.955 |
| 56"                                 | 0.980                                                          | 0.960 | 0.950  | 0.890 | 0.992                                                              | 0.985 | 0.978  | 0.955 |
| 60"                                 | 0.980                                                          | 0.970 | 0.950  | 0.900 | 0.992                                                              | 0.985 | 0.978  | 0.955 |
| 64"                                 | 0.980                                                          | 0.970 | 0.950  | 0.910 | 0.992                                                              | 0.988 | 0.978  | 0.962 |

Note: Derating factors do not apply to units with end pockets.

**Table 6**

| WATER FLOW IN GPM | PRESSURE LOSS IN FEET OF WATER |               |               |
|-------------------|--------------------------------|---------------|---------------|
|                   | 4 INCH MODELS                  | 6 INCH MODELS | 8 INCH MODELS |
| .25               | 0.044                          | —             | —             |
| .50               | 0.160                          | 0.070         | 0.046         |
| 1                 | 0.597                          | 0.270         | 0.167         |
| 2                 | 2.220                          | 1.047         | 0.616         |
| 3                 | —                              | 2.260         | 1.367         |
| 4                 | —                              | 3.793         | 2.380         |
| 5                 | —                              | —             | 3.673         |

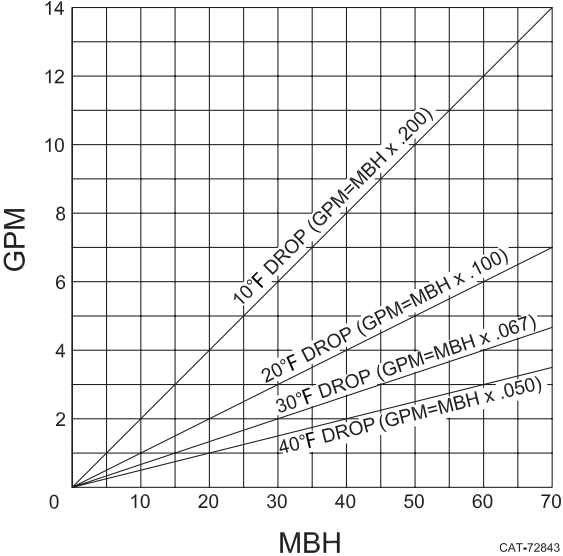
Charted figures showing pressure drop through Convectors with forced hot water. Used for determining pressure head requirement. Based on 64" length units, but applicable to shorter units, as most loss is due to headers.

**ADDITIONAL CORRECTION FACTORS ON NEXT PAGE**

# CONVECTOR BTU CORRECTION FACTORS

## GALLONS PER MINUTE OF HOT WATER REQUIRED

Table 7



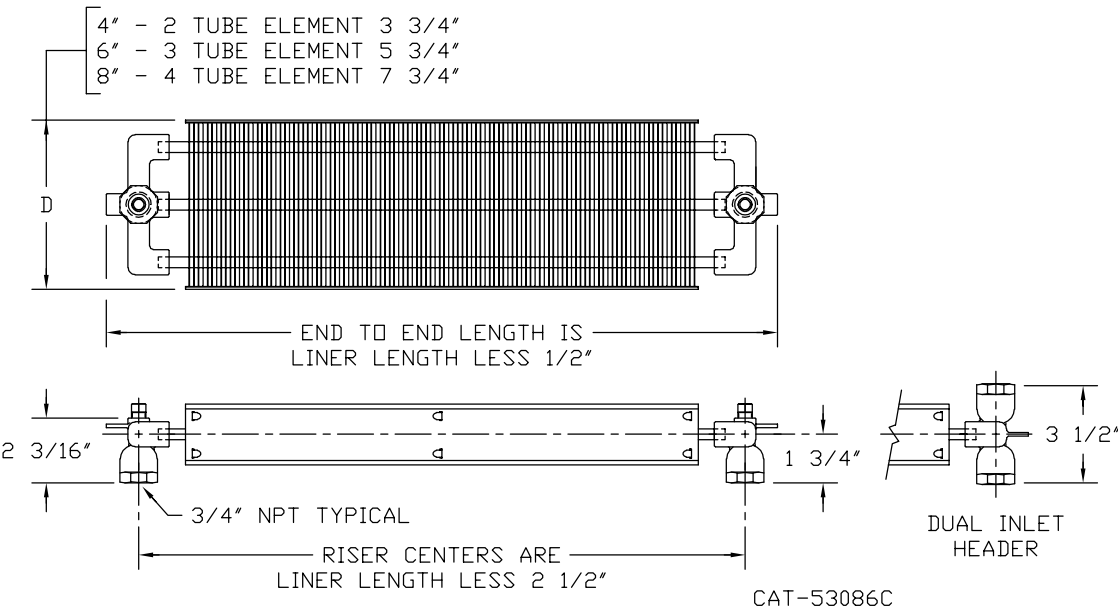
## OUTPUT-FLOW RATE CORRECTIONS

Table 8

| Convactor Depth | Tubes per Element | Min. Flow Rate<br>(0.25 Ft./Sec.)<br>GPM | MBH Based on<br>T.D. & Min. Flow Rate |       |       |       |
|-----------------|-------------------|------------------------------------------|---------------------------------------|-------|-------|-------|
|                 |                   |                                          | 10TD                                  | 20TD  | 30TD  | 40TD  |
| 4"              | 2                 | .15                                      | 0.750                                 | 1,500 | 2,250 | 3,000 |
| 6"              | 3                 | .225                                     | 1.125                                 | 2,250 | 3,375 | 4,500 |
| 8"              | 4                 | .30                                      | 1.500                                 | 3,000 | 4,500 | 6,000 |

**NOTE:** Table 8 shows MBH which result at specific water temperature drops and minimum water flow rates which are required to maintain turbulent flow within element tubes.

## CONVECTOR COIL



**NOTE:** When ordering convectors with end pockets always refer to the standard unit length. The overall physical length will increase by 4" for each end pocket. The coil length will remain the standard size. Coil fins are 2-1/2" high by width shown above and are mechanically bonded to copper tube at 6 fins per inch.

