

# SEA WATER COOLED CONDENSER

SVCC 012 - 1 -08 -N30

MATERIAL TUBE N30 = COPPER NICKEL ( N30 = COPPER 70% / NICKEL 30% )

SIZE SHELL....INCH ( SHELL 8 INCH )

NUMBER OF CIRCUIT 1 = 1 CIRCUIT

NOMINAL COMPRESSOR HORSE POWER (12 HP) AT : TC 42 °C , WATER IN 30 °C / OUT 35 °C

| REFRIGERANT | NOMINAL HEAT CAPACITY (BTU/hr)       |
|-------------|--------------------------------------|
| R22         | 12 x 1 x 8,333.4 x 0.94* = 94,000    |
| R134A       | 12 x 0.95 x 8,333.4 x 0.94* = 89,300 |
| R404        | 12 x 0.91 x 8,333.4 x 0.94* = 85,540 |
| R407        | 12 x 0.98 x 8,333.4 x 0.94* = 92,120 |
| R507        | 12 x 0.93 x 8,333.4 x 0.94* = 87,420 |

REMARK : EXCLUDE HEAT REJECT 125% , \*FACTOR FOR SEA WATER 94 %

|                     |  |       |
|---------------------|--|-------|
| AT FOULING FACTOR : | 0.0005 ft.hr <sup>o</sup> F/BTU (DISTRILLED WATER) | 114 % |
|                     | 0.00075 ft.hr <sup>o</sup> F/BTU (FRESH WATER)     | 103 % |
|                     | 0.00085 ft.hr <sup>o</sup> F/BTU (COOLING TOWER)   | 100 % |
|                     | 0.001 ft.hr <sup>o</sup> F/BTU (CLEAN RIVER WATER) | 94 %  |
|                     | 0.0015 ft.hr <sup>o</sup> F/BTU (RIVER WATER)      | 82 %  |

SVCC = NORMAL SEA WARER CONDENSER TYPE

FSVCC = MODIFIED TYPE

REMARK MATERIAL

TUBE SHEET AND COVER : CARBON STEEL COATING NYLON 6

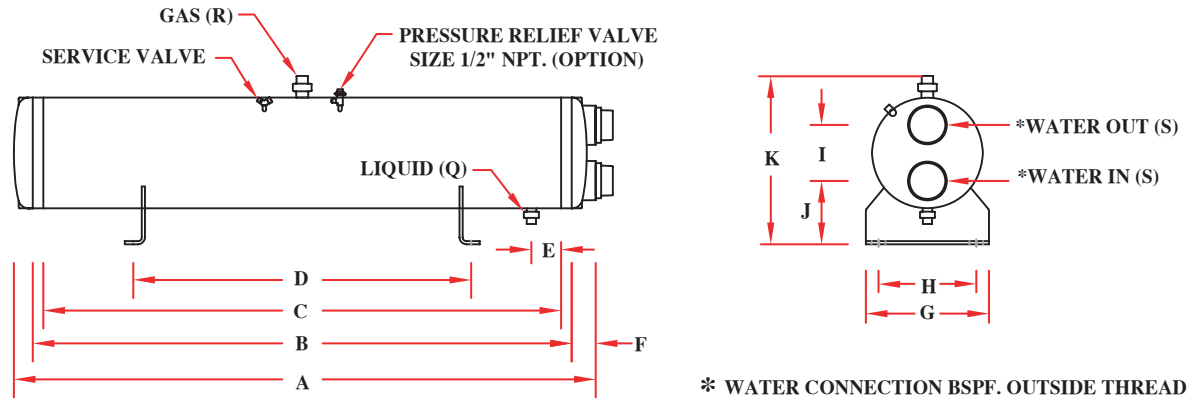
SHELL : CARBON STEEL

WATER CONNECTION : STAINLESS 316



BRAND 3Q

# SEA WATER COOLED CONDENSER



## MODEL SVCC , SHELL 4" - 12" ( 1 CIRCUIT )

| MODEL            | DIMENSION (millimetre) |      |      |                |       |    |     |     |     |     |     | DIMENSION (inch) |        |        | NO OF PASSES | APPROX WEIGHT (kg) | HEAT TRANSFER AREA (ft <sup>2</sup> ) |
|------------------|------------------------|------|------|----------------|-------|----|-----|-----|-----|-----|-----|------------------|--------|--------|--------------|--------------------|---------------------------------------|
|                  | A                      | B    | C    | D              | E     | F  | G   | H   | I   | J   | K   | Q                | R      | S      |              |                    |                                       |
| SVCC 1.8-1-04N30 | 500                    | 440  | 382  | ADJUST SUPPORT | 9     | 30 | 182 | 122 | 68  | 89  | 184 | 1/2"             | 5/8"   | 1"     | 4            | 14.3               | 20.6                                  |
| SVCC 2.2-1-04N30 | 580                    | 520  | 462  |                |       |    |     |     |     |     |     |                  |        |        |              | 15.8               | 24.9                                  |
| SVCC 2.8-1-04N30 | 700                    | 640  | 582  |                |       |    |     |     |     |     |     |                  |        |        |              | 18.1               | 31.4                                  |
| SVCC 3.5-1-04N30 | 840                    | 780  | 722  |                |       |    |     |     |     |     |     |                  |        |        |              | 20.7               | 39.0                                  |
| SVCC 2.5-1-05N30 | 440                    | 380  | 322  | ADJUST SUPPORT | 9     | 30 | 209 | 149 | 82  | 106 | 217 | 1/2"             | 3/4"   | 1"     | 4            | 23.1               | 27.2                                  |
| SVCC 3.5-1-05N30 | 580                    | 520  | 462  |                |       |    |     |     |     |     |     |                  |        |        |              | 26.8               | 39.1                                  |
| SVCC 005-1-05N30 | 780                    | 720  | 662  |                |       |    |     |     |     |     |     |                  |        |        |              | 32.1               | 56.1                                  |
| SVCC 006-1-05N30 | 900                    | 840  | 782  |                |       |    |     |     |     |     |     |                  |        |        |              | 35.3               | 66.3                                  |
| SVCC 3.0-1-06N30 | 404                    | 340  | 282  | ADJUST SUPPORT | 14    | 32 | 236 | 176 | 96  | 112 | 244 | 3/4"             | 7/8"   | 1 1/2" | 2            | 27.7               | 31.4                                  |
| SVCC 3.5-1-06N30 | 474                    | 410  | 352  |                |       |    |     |     |     |     |     |                  |        |        |              | 30.3               | 37.9                                  |
| SVCC 004-1-06N30 | 514                    | 450  | 392  |                |       |    |     |     |     |     |     |                  |        |        |              | 31.5               | 43.3                                  |
| SVCC 4.5-1-06N30 | 584                    | 520  | 462  |                |       |    |     |     |     |     |     |                  |        |        |              | 33.8               | 49.8                                  |
| SVCC 005-1-06N30 | 644                    | 580  | 522  |                |       |    |     |     |     |     |     |                  |        |        |              | 35.9               | 56.3                                  |
| SVCC 006-1-06N30 | 744                    | 680  | 622  |                |       |    |     |     |     |     |     |                  |        |        |              | 39.3               | 67.1                                  |
| SVCC 7.5-1-06N30 | 904                    | 840  | 782  |                |       |    |     |     |     |     |     |                  |        |        |              | 44.7               | 84.4                                  |
| SVCC 010-1-06N30 | 1144                   | 1080 | 1022 |                |       |    |     |     |     |     |     |                  |        |        |              | 49.5               | 99.6                                  |
| SVCC 012-1-06N30 | 1374                   | 1310 | 1252 | 56.3           | 121.3 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 7.5-1-08N30 | 621                    | 520  | 462  | ADJUST SUPPORT | 14    | 51 | 287 | 227 | 90  | 149 | 303 | 7/8"             | 1 1/8" | 2"     | 2            | 54.1               | 85.4                                  |
| SVCC 010-1-08N30 | 721                    | 620  | 562  |                |       |    |     |     |     |     |     |                  |        |        |              | 60.5               | 107.7                                 |
| SVCC 012-1-08N30 | 881                    | 780  | 722  |                |       |    |     |     |     |     |     |                  |        |        |              | 67.9               | 133.7                                 |
| SVCC 015-1-08N30 | 1081                   | 980  | 922  |                |       |    |     |     |     |     |     |                  |        |        |              | 78.4               | 170.8                                 |
| SVCC 020-1-08N30 | 1281                   | 1180 | 1122 |                |       |    |     |     |     |     |     |                  |        |        |              | 89.1               | 208.0                                 |
| SVCC 025-1-08N30 | 1581                   | 1480 | 1422 |                |       |    |     |     |     |     |     |                  |        |        |              | 104.9              | 263.7                                 |
| SVCC 030-1-08N30 | 1931                   | 1830 | 1772 |                |       |    |     |     |     |     |     |                  |        |        |              | 129.5              | 325.6                                 |
| SVCC 010-1-10N30 | 530                    | 440  | 382  |                |       |    |     |     |     |     |     |                  |        |        |              | ADJUST SUPPORT     | 14                                    |
| SVCC 012-1-10N30 | 610                    | 520  | 462  | 74.9           | 133.4 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 015-1-10N30 | 730                    | 640  | 582  | 83.0           | 168.3 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 020-1-10N30 | 930                    | 840  | 782  | 96.4           | 226.3 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 025-1-10N30 | 1070                   | 980  | 922  | 105.2          | 266.9 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 030-1-10N30 | 1270                   | 1180 | 1122 | 119.2          | 325.0 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 035-1-10N30 | 1400                   | 1310 | 1252 | 128.2          | 362.7 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 040-1-10N30 | 1570                   | 1480 | 1422 | 125.5          | 412.0 |    |     |     |     |     |     |                  |        |        |              |                    |                                       |
| SVCC 025-1-12N30 | 805                    | 680  | 618  | 400            | 56    | 70 | 360 | 286 | 164 | 185 | 429 | 1 1/8"           | 2"     | 3"     | 2            | 116.1              | 268.6                                 |
| SVCC 030-1-12N30 | 945                    | 820  | 758  | 490            |       |    |     |     |     |     |     |                  |        |        |              | 128.4              | 329.3                                 |
| SVCC 040-1-12N30 | 1205                   | 1080 | 1018 | 740            |       |    |     |     |     |     |     |                  |        |        |              | 151.2              | 441.9                                 |
| SVCC 050-1-12N30 | 1415                   | 1290 | 1228 | 1016           |       |    |     |     |     |     |     |                  |        |        |              | 169.6              | 532.9                                 |
| SVCC 060-1-12N30 | 1605                   | 1480 | 1418 | 1016           |       |    |     |     |     |     |     |                  |        |        |              | 186.3              | 615.3                                 |