

TABLE 1. CONSTANTS FOR DETERMINING THE CAPACITY OF BLOW-THROUGH TYPE UNIT HEATERS FOR VARIOUS STEAM PRESSURES AND TEMPERATURES OF ENTERING AIR  
(Based on Steam Pressure of 2 lb Gage and Entering Air Temperature of 60 F)

| STEAM PRESSURE<br>LB PER SQ IN. | TEMPERATURE OF ENTERING AIR |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                 | -10°                        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 100°  |
| 0                               | 1.538                       | 1.446 | 1.369 | 1.273 | 1.191 | 1.110 | 1.034 | 0.956 | 0.881 | 0.809 | 0.739 | 0.671 |
| 2                               | 1.585                       | 1.495 | 1.405 | 1.320 | 1.237 | 1.155 | 1.078 | 1.000 | 0.926 | 0.853 | 0.782 | 0.713 |
| 5                               | 1.640                       | 1.550 | 1.456 | 1.371 | 1.289 | 1.206 | 1.127 | 1.050 | 0.974 | 0.901 | 0.829 | 0.760 |
| 10                              | 1.730                       | 1.639 | 1.545 | 1.460 | 1.375 | 1.290 | 1.211 | 1.131 | 1.056 | 0.982 | 0.908 | 0.838 |
| 15                              | 1.799                       | 1.708 | 1.614 | 1.525 | 1.441 | 1.355 | 1.275 | 1.194 | 1.117 | 1.043 | 0.970 | 0.897 |
| 20                              | 1.861                       | 1.769 | 1.675 | 1.584 | 1.498 | 1.416 | 1.333 | 1.251 | 1.174 | 1.097 | 1.024 | 0.952 |
| 30                              | 1.966                       | 1.871 | 1.775 | 1.684 | 1.597 | 1.509 | 1.429 | 1.346 | 1.266 | 1.190 | 1.115 | 1.042 |
| 40                              | 2.058                       | 1.959 | 1.862 | 1.771 | 1.683 | 1.596 | 1.511 | 1.430 | 1.349 | 1.270 | 1.194 | 1.119 |
| 50                              | 2.134                       | 2.035 | 1.936 | 1.845 | 1.755 | 1.666 | 1.582 | 1.498 | 1.416 | 1.338 | 1.262 | 1.187 |
| 60                              | 2.196                       | 2.094 | 1.997 | 1.902 | 1.811 | 1.725 | 1.640 | 1.555 | 1.472 | 1.393 | 1.314 | 1.239 |
| 70                              | 2.256                       | 2.157 | 2.057 | 1.961 | 1.872 | 1.782 | 1.696 | 1.610 | 1.527 | 1.447 | 1.368 | 1.293 |
| 75                              | 2.283                       | 2.183 | 2.085 | 1.990 | 1.896 | 1.808 | 1.721 | 1.635 | 1.552 | 1.472 | 1.392 | 1.316 |
| 80                              | 2.312                       | 2.211 | 2.112 | 2.015 | 1.925 | 1.836 | 1.748 | 1.660 | 1.577 | 1.497 | 1.418 | 1.342 |
| 90                              | 2.361                       | 2.258 | 2.159 | 2.063 | 1.968 | 1.880 | 1.792 | 1.705 | 1.621 | 1.541 | 1.461 | 1.383 |
| 100                             | 2.409                       | 2.307 | 2.204 | 2.108 | 2.015 | 1.927 | 1.836 | 1.749 | 1.663 | 1.581 | 1.502 | 1.424 |

Note: To determine capacity at any steam pressure and entering temperature, multiply constant from table by rated capacity at 60 F entering and 2 lb pressure.

TABLE 2. CONSTANTS FOR DETERMINING THE CAPACITY OF DRAW-THROUGH TYPE UNIT HEATERS FOR VARIOUS STEAM PRESSURES AND TEMPERATURES OF ENTERING AIR  
(Based on Steam Pressure of 2 lb Gage and Entering Air Temperature of 60 F)

| TEMPERATURE OF ENTERING AIR     |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| STEAM PRESSURE<br>LB PER SQ IN. | -10°  | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 100°  |
| 0                               | 1.483 | 1.405 | 1.329 | 1.253 | 1.178 | 1.105 | 1.032 | 0.962 | 0.892 | 0.822 | 0.754 | 0.688 |
| 2                               | 1.520 | 1.442 | 1.363 | 1.290 | 1.215 | 1.141 | 1.069 | 1.000 | 0.930 | 0.861 | 0.792 | 0.728 |
| 5                               | 1.565 | 1.485 | 1.410 | 1.334 | 1.260 | 1.187 | 1.114 | 1.045 | 0.975 | 0.906 | 0.838 | 0.771 |
| 10                              | 1.637 | 1.558 | 1.480 | 1.403 | 1.328 | 1.253 | 1.182 | 1.112 | 1.042 | 0.973 | 0.903 | 0.838 |
| 15                              | 1.688 | 1.610 | 1.533 | 1.458 | 1.382 | 1.310 | 1.239 | 1.168 | 1.099 | 1.028 | 0.960 | 0.895 |
| 20                              | 1.728 | 1.649 | 1.572 | 1.498 | 1.421 | 1.350 | 1.278 | 1.208 | 1.138 | 1.070 | 1.002 | 0.936 |
| 30                              | 1.803 | 1.725 | 1.648 | 1.572 | 1.497 | 1.423 | 1.352 | 1.281 | 1.212 | 1.145 | 1.078 | 1.010 |
| 40                              | 1.864 | 1.787 | 1.710 | 1.637 | 1.563 | 1.491 | 1.420 | 1.350 | 1.282 | 1.215 | 1.148 | 1.081 |
| 50                              | 1.927 | 1.850 | 1.773 | 1.700 | 1.628 | 1.554 | 1.483 | 1.416 | 1.347 | 1.278 | 1.211 | 1.145 |
| 60                              | 1.973 | 1.987 | 1.820 | 1.748 | 1.673 | 1.601 | 1.531 | 1.463 | 1.394 | 1.325 | 1.260 | 1.194 |
| 70                              | 2.018 | 1.943 | 1.869 | 1.795 | 1.722 | 1.651 | 1.582 | 1.512 | 1.443 | 1.377 | 1.310 | 1.243 |
| 75                              | 2.043 | 1.970 | 1.895 | 1.822 | 1.750 | 1.680 | 1.609 | 1.540 | 1.471 | 1.402 | 1.333 | 1.268 |
| 80                              | 2.064 | 1.988 | 1.914 | 1.841 | 1.770 | 1.698 | 1.629 | 1.560 | 1.491 | 1.422 | 1.354 | 1.288 |
| 90                              | 2.102 | 2.028 | 1.951 | 1.878 | 1.804 | 1.732 | 1.661 | 1.590 | 1.523 | 1.457 | 1.387 | 1.321 |
| 100                             | 2.150 | 2.071 | 1.994 | 1.919 | 1.845 | 1.770 | 1.700 | 1.630 | 1.560 | 1.492 | 1.425 | 1.359 |

Note: To determine capacity at any steam pressure and entering temperature, multiply constant from table by rated capacity at 60 F entering and 2 lb pressure.