



ACiQ 27K 4-Zone Extreme Heat Multi-Zone Condenser Extended Heating & Cooling Performance Tables  
(tested with a combination of multi-zone compatible ducted air handlers of varying capacities)

| COOLING PERFORMANCE DATA                                |                       |                           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|---------------------------------------------------------|-----------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Model                                                   | Outdoor Conditions DB | Indoor Conditions (WB/DB) |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                                                         |                       | WB (F°)                   | 60.8°F (16°C)   |                 |                 |                 |                 | 64.4°F (18°C)   |                 |                 |                 |                 | 67.0°F (19.4°C) |                 |                 |                 |                 | 71.6°F (22.0°C) |                 |                 |                 |                 |
|                                                         |                       | DB (F°)                   | 73.4°F (23.0°C) | 77.0°F (25.0°C) | 80.0°F (26.7°C) | 80.6°F (27.0°C) | 84.2°F (23.0°C) | 73.4°F (23.0°C) | 77.0°F (25.0°C) | 80.0°F (26.7°C) | 80.6°F (27.0°C) | 84.2°F (29.0°C) | 73.4°F (23.0°C) | 77.0°F (25.0°C) | 80.0°F (26.7°C) | 80.6°F (27.0°C) | 84.2°F (29.0°C) | 73.4°F (23.0°C) | 77.0°F (25.0°C) | 80.0°F (26.7°C) | 80.6°F (27.0°C) | 84.2°F (29.0°C) |
| ACIQ-27Z-HH-M4C<br>(208-230V)<br>Test Airflow/CFM: 1294 | -22°F (-30.0°C)       | TC                        | 32518           | 32562           | 32597           | 32598           | 32642           | 34478           | 34519           | 34553           | 34559           | 34600           | 36538           | 36585           | 36626           | 36633           | 36673           | 38739           | 38781           | 38823           | 38829           | 38878           |
|                                                         |                       | S/T                       | 0.48            | 0.56            | 0.63            | 0.63            | 0.72            | 0.50            | 0.59            | 0.67            | 0.67            | 0.77            | 0.53            | 0.63            | 0.71            | 0.71            | 0.81            | 0.57            | 0.67            | 0.76            | 0.76            | 0.86            |
|                                                         |                       | PI                        | 2.62            | 2.62            | 2.62            | 2.62            | 2.63            | 2.77            | 2.78            | 2.78            | 2.78            | 2.78            | 2.94            | 2.94            | 2.95            | 2.95            | 2.95            | 3.12            | 3.12            | 3.12            | 3.12            | 3.13            |
|                                                         | -13°F (-25.0°C)       | TC                        | 35228           | 35275           | 35313           | 35315           | 35362           | 37351           | 37395           | 37432           | 37439           | 37484           | 39582           | 39634           | 39678           | 39685           | 39730           | 41967           | 42013           | 42059           | 42065           | 42118           |
|                                                         |                       | S/T                       | 0.48            | 0.56            | 0.64            | 0.64            | 0.73            | 0.51            | 0.60            | 0.68            | 0.68            | 0.77            | 0.54            | 0.63            | 0.72            | 0.72            | 0.82            | 0.57            | 0.67            | 0.76            | 0.76            | 0.87            |
|                                                         |                       | PI                        | 2.83            | 2.84            | 2.84            | 2.84            | 2.85            | 3.01            | 3.01            | 3.01            | 3.01            | 3.02            | 3.19            | 3.19            | 3.19            | 3.19            | 3.20            | 3.38            | 3.38            | 3.38            | 3.38            | 3.39            |
|                                                         | -4°F (-20.0°C)        | TC                        | 37938           | 37989           | 38030           | 38031           | 38083           | 40224           | 40272           | 40311           | 40319           | 40367           | 42627           | 42682           | 42730           | 42738           | 42786           | 45195           | 45245           | 45294           | 45301           | 45357           |
|                                                         |                       | S/T                       | 0.48            | 0.57            | 0.64            | 0.64            | 0.73            | 0.51            | 0.60            | 0.68            | 0.68            | 0.78            | 0.54            | 0.64            | 0.72            | 0.72            | 0.82            | 0.57            | 0.67            | 0.77            | 0.77            | 0.87            |
|                                                         |                       | PI                        | 3.05            | 3.06            | 3.06            | 3.06            | 3.06            | 3.24            | 3.24            | 3.24            | 3.24            | 3.25            | 3.43            | 3.43            | 3.44            | 3.44            | 3.44            | 3.64            | 3.64            | 3.64            | 3.65            | 3.65            |
|                                                         | 0°F (-17.8°C)         | TC                        | 39142           | 39195           | 39237           | 39239           | 39292           | 41501           | 41550           | 41591           | 41599           | 41649           | 43980           | 44037           | 44087           | 44095           | 44144           | 46630           | 46681           | 46732           | 46739           | 46797           |
|                                                         |                       | S/T                       | 0.48            | 0.57            | 0.64            | 0.64            | 0.73            | 0.51            | 0.60            | 0.68            | 0.68            | 0.78            | 0.54            | 0.64            | 0.72            | 0.72            | 0.83            | 0.58            | 0.68            | 0.77            | 0.77            | 0.88            |
|                                                         |                       | PI                        | 3.15            | 3.15            | 3.16            | 3.16            | 3.16            | 3.34            | 3.34            | 3.35            | 3.35            | 3.35            | 3.54            | 3.54            | 3.55            | 3.55            | 3.55            | 3.75            | 3.76            | 3.76            | 3.76            | 3.77            |
|                                                         | 5°F (-15.0°C)         | TC                        | 40647           | 40702           | 40746           | 40748           | 40803           | 43097           | 43148           | 43191           | 43199           | 43251           | 45672           | 45731           | 45782           | 45791           | 45842           | 48424           | 48476           | 48529           | 48537           | 48597           |
|                                                         |                       | S/T                       | 0.49            | 0.57            | 0.65            | 0.65            | 0.74            | 0.51            | 0.60            | 0.69            | 0.69            | 0.78            | 0.55            | 0.64            | 0.73            | 0.73            | 0.83            | 0.58            | 0.68            | 0.77            | 0.77            | 0.88            |
|                                                         |                       | PI                        | 3.27            | 3.28            | 3.28            | 3.28            | 3.28            | 3.47            | 3.47            | 3.48            | 3.48            | 3.48            | 3.68            | 3.68            | 3.68            | 3.68            | 3.69            | 3.90            | 3.90            | 3.91            | 3.91            | 3.91            |
|                                                         | 14°F (-10.0°C)        | TC                        | 41036           | 41091           | 41135           | 41137           | 41193           | 43509           | 43561           | 43604           | 43612           | 43664           | 46108           | 46168           | 46220           | 46228           | 46280           | 48887           | 48940           | 48993           | 49001           | 49062           |
|                                                         |                       | S/T                       | 0.49            | 0.57            | 0.65            | 0.65            | 0.74            | 0.52            | 0.61            | 0.69            | 0.69            | 0.78            | 0.55            | 0.64            | 0.73            | 0.73            | 0.83            | 0.58            | 0.68            | 0.77            | 0.77            | 0.88            |
|                                                         |                       | PI                        | 3.16            | 3.17            | 3.17            | 3.17            | 3.17            | 3.35            | 3.36            | 3.36            | 3.36            | 3.36            | 3.56            | 3.56            | 3.56            | 3.56            | 3.56            | 3.77            | 3.77            | 3.77            | 3.77            | 3.78            |
|                                                         | 17°F (-8.3°C)         | TC                        | 41166           | 41221           | 41265           | 41267           | 41323           | 43646           | 43698           | 43741           | 43750           | 43802           | 46254           | 46314           | 46366           | 46374           | 46426           | 49041           | 49094           | 49148           | 49155           | 49216           |
|                                                         |                       | S/T                       | 0.49            | 0.57            | 0.65            | 0.65            | 0.74            | 0.52            | 0.61            | 0.69            | 0.69            | 0.79            | 0.55            | 0.64            | 0.73            | 0.73            | 0.83            | 0.58            | 0.68            | 0.78            | 0.78            | 0.88            |
|                                                         |                       | PI                        | 3.12            | 3.13            | 3.13            | 3.13            | 3.14            | 3.31            | 3.32            | 3.32            | 3.32            | 3.32            | 3.51            | 3.52            | 3.52            | 3.52            | 3.52            | 3.72            | 3.73            | 3.73            | 3.73            | 3.74            |
|                                                         | 23°F (-5.0°C)         | TC                        | 40768           | 40822           | 40866           | 40868           | 40923           | 43275           | 43328           | 43378           | 43377           | 43437           | 45807           | 45866           | 45918           | 45926           | 45977           | 48567           | 48620           | 48673           | 48680           | 48741           |
|                                                         |                       | S/T                       | 0.49            | 0.58            | 0.65            | 0.65            | 0.75            | 0.52            | 0.61            | 0.69            | 0.69            | 0.79            | 0.55            | 0.65            | 0.74            | 0.74            | 0.84            | 0.58            | 0.69            | 0.78            | 0.78            | 0.89            |
|                                                         |                       | PI                        | 3.04            | 3.05            | 3.05            | 3.05            | 3.06            | 3.23            | 3.23            | 3.23            | 3.23            | 3.24            | 3.42            | 3.42            | 3.43            | 3.43            | 3.43            | 3.63            | 3.63            | 3.63            | 3.63            | 3.64            |
|                                                         | 35°F (1.7°C)          | TC                        | 39972           | 40026           | 40069           | 40071           | 40125           | 42381           | 42431           | 42473           | 42481           | 42532           | 44913           | 44971           | 45021           | 45030           | 45080           | 47619           | 47671           | 47723           | 47730           | 47789           |
|                                                         |                       | S/T                       | 0.49            | 0.58            | 0.66            | 0.66            | 0.75            | 0.52            | 0.61            | 0.70            | 0.70            | 0.79            | 0.55            | 0.65            | 0.74            | 0.74            | 0.84            | 0.59            | 0.69            | 0.78            | 0.78            | 0.89            |
|                                                         |                       | PI                        | 2.88            | 2.89            | 2.89            | 2.89            | 2.89            | 3.06            | 3.06            | 3.06            | 3.06            | 3.07            | 3.24            | 3.24            | 3.25            | 3.25            | 3.25            | 3.44            | 3.44            | 3.44            | 3.44            | 3.45            |
|                                                         | 41°F (5.0°C)          | TC                        | 39952           | 40006           | 40049           | 40051           | 40105           | 42360           | 42410           | 42452           | 42460           | 42511           | 44891           | 44949           | 44999           | 45008           | 45058           | 47596           | 47647           | 47699           | 47707           | 47766           |
|                                                         |                       | S/T                       | 0.49            | 0.58            | 0.66            | 0.66            | 0.75            | 0.52            | 0.61            | 0.70            | 0.70            | 0.80            | 0.56            | 0.65            | 0.74            | 0.74            | 0.84            | 0.59            | 0.69            | 0.78            | 0.78            | 0.89            |
|                                                         |                       | PI                        | 2.91            | 2.91            | 2.91            | 2.91            | 2.92            | 3.08            | 3.08            | 3.09            | 3.09            | 3.09            | 3.27            | 3.27            | 3.27            | 3.27            | 3.27            | 3.46            | 3.47            | 3.47            | 3.47            | 3.47            |
|                                                         | 47°F (8.3°C)          | TC                        | 39833           | 39886           | 40029           | 40031           | 40085           | 42339           | 42389           | 42431           | 42440           | 42490           | 44869           | 44927           | 44977           | 44985           | 45036           | 47572           | 47624           | 47676           | 47683           | 47742           |
|                                                         |                       | S/T                       | 0.50            | 0.58            | 0.66            | 0.66            | 0.75            | 0.53            | 0.62            | 0.70            | 0.70            | 0.80            | 0.56            | 0.65            | 0.74            | 0.74            | 0.85            | 0.59            | 0.69            | 0.79            | 0.79            | 0.90            |
|                                                         |                       | PI                        | 2.93            | 2.93            | 2.94            | 2.94            | 2.94            | 3.11            | 3.11            | 3.11            | 3.11            | 3.12            | 3.29            | 3.30            | 3.30            | 3.30            | 3.30            | 3.49            | 3.49            | 3.50            | 3.50            | 3.50            |
|                                                         | 50°F (10.0°C)         | TC                        | 40475           | 40530           | 40573           | 40575           | 40630           | 42914           | 42965           | 43008           | 43016           | 43067           | 45478           | 45537           | 45588           | 45597           | 45648           | 48219           | 48271           | 48323           | 48331           | 48391           |
|                                                         |                       | S/T                       | 0.50            | 0.58            | 0.66            | 0.66            | 0.76            | 0.53            | 0.62            | 0.70            | 0.70            | 0.80            | 0.56            | 0.66            | 0.75            | 0.75            | 0.85            | 0.59            | 0.70            | 0.79            | 0.79            | 0.90            |
|                                                         |                       | PI                        | 2.99            | 2.99            | 2.99            | 2.99            | 3.00            | 3.17            | 3.17            | 3.17            | 3.18            | 3.18            | 3.36            | 3.36            | 3.36            | 3.36            | 3.37            | 3.56            | 3.56            | 3.57            | 3.57            | 3.57            |
|                                                         | 59°F (15.0°C)         | TC                        | 42103           | 42160           | 42205           | 42207           | 42264           | 44640           | 44693           | 44737           | 44746           | 44799           | 47307           | 47369           | 47422           | 47431           | 47483           | 50158           | 50212           | 50267           | 50275           | 50337           |
|                                                         |                       | S/T                       | 0.50            | 0.59            | 0.67            | 0.67            | 0.76            | 0.53            | 0.62            | 0.71            | 0.71            | 0.81            | 0.56            | 0.66            | 0.75            | 0.75            | 0.86            | 0.60            | 0.70            | 0.80            | 0.80            | 0.91            |
|                                                         |                       | PI                        | 3.16            | 3.16            | 3.17            | 3.17            | 3.17            | 3.35            | 3.36            | 3.36            | 3.36            | 3.36            | 3.55            | 3.56            | 3.56            | 3.56            | 3.56            | 3.77            | 3.77            | 3.77            | 3.77            | 3.78            |
|                                                         | 68°F (20.0°C)         | TC                        | 43731           | 43790           | 43837           | 43839           | 43898           | 46367           | 46421           | 46467           | 46476           | 46532           | 49137           | 49200           | 49255           | 49264           | 49319           | 52097           | 52154           | 52211           | 52219           | 52284           |
|                                                         |                       | S/T                       | 0.51            | 0.60            | 0.69            | 0.69            | 0.78            | 0.54            | 0.64            | 0.73            | 0.73            | 0.83            | 0.58            | 0.68            | 0.77            | 0.77            | 0.88            | 0.61            | 0.72            | 0.82            | 0.82            | 0.93            |
|                                                         |                       | PI                        | 3.33            | 3.34            | 3.34            | 3.34            | 3.35            | 3.53            | 3.54            | 3.54            | 3.54            | 3.55            | 3.75            | 3.75            | 3.75            | 3.76            | 3.76            | 3.97            | 3.98            | 3.98            | 3.98            | 3.99            |
|                                                         | 77°F (25.0°C)         | TC                        | 45359           | 45420           | 45469           | 45471           | 45532           | 48093           | 48149           | 48197           | 48207           | 48264           | 50966           | 51032           | 51089           | 51098           | 51155           | 54037           | 54095           | 54154           | 54163           | 54230           |
|                                                         |                       | S/T                       | 0.52            | 0.61            | 0.69            | 0.69            | 0.79            | 0.55            | 0.65            | 0.74            | 0.74            | 0.84            | 0.59            | 0.69            | 0.78            | 0.78            | 0.89            | 0.62            | 0.73            | 0.83            | 0.83            | 0.94            |
|                                                         |                       | PI                        | 3.51            | 3.51            | 3.52            | 3.52            | 3.52            | 3.72            | 3.72            | 3.73            | 3.73            | 3.73            | 3.94            | 3.95            | 3.95            | 3.95            | 3.95            | 4.18            | 4.18            | 4.19            | 4.19            | 4.19            |
|                                                         | 82°F (27.8°C)         | TC                        | 44567           | 44627           | 44675           | 44677           | 44737           | 47253           | 47309           | 47356           | 47365           | 47421           | 50076           | 50141           | 50197           | 50206           | 50262           | 53093           | 53151           | 53209           | 53217           | 53283           |
|                                                         |                       | S/T                       | 0.53            | 0.62            | 0.70            | 0.70            | 0.80            | 0.56            | 0.66            | 0.75            | 0.75            | 0.85            | 0.59            | 0.70            | 0.79            | 0.79            | 0.90            | 0.63            | 0.74            | 0.84            | 0.84            | 0.95            |
|                                                         |                       | PI                        | 3.62            | 3.63            | 3.63            | 3.63            | 3.63            | 3.84            | 3.84            | 3.85            | 3.85            | 3.85            | 4.07            | 4.07            | 4.08            | 4.08            | 4.08            | 4.31            | 4.32            | 4.32            | 4.32            | 4.33            |
|                                                         | 86°F (30.0°C)         | TC                        | 41793           | 41850           | 41895           | 41896           | 41953           | 44312           | 44364           | 44408           | 44417           | 44470           | 46959           | 47020           | 47073           | 47082           | 47134           | 49789           | 49843           | 49897           | 49905           | 49967           |
|                                                         |                       | S/T                       | 0.53            | 0.63            | 0.71            | 0.71            | 0.81            | 0.57            | 0.66            | 0.75            | 0.75            | 0.86            | 0.60            | 0.70            | 0.80            | 0.80            | 0.91            | 0.64            | 0.75            | 0.85            | 0.85            | 0.97            |
|                                                         |                       | PI                        | 3.73            | 3.74            | 3.74            | 3.74            | 3.75            | 3.96            | 3.96            | 3.97            | 3.97            | 3.97            | 4.20            | 4.20            | 4.21            | 4.21            | 4.21            | 4.45            | 4.45            | 4.46            | 4.46            | 4.46            |
|                                                         | 95°F (35.0°C)         | TC                        | 35552           | 35600           | 35638           | 35640           | 35688           | 37695           | 37739           | 37777           | 37784           | 37829           | 39947           | 39999           | 40043           | 40051           | 40095           | 42354           | 42400           | 42446           | 42452           | 42505           |
| S/T                                                     |                       | 0.53                      | 0.63            | 0.71            | 0.71            | 0.81            | 0.57            | 0.66            | 0.75            |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

HEATING PERFORMANCE

| Model                                                   | Outdoor Conditions DB | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)      |                  |                  |                    |                    |
|---------------------------------------------------------|-----------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|---------------------------|------------------|------------------|--------------------|--------------------|
|                                                         |                       | Indoor Conditions DB (°F)           |                  |                  |                    |                    | Indoor Conditions DB (°F) |                  |                  |                    |                    |
|                                                         |                       | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)        | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| ACiQ-27Z-HH-M4C<br>(208-230V)<br>Test Airflow/CFM: 1294 | -22°F<br>(-30.0°C)    | 13538                               | 13267            | 13201            | 13148              | 13030              | 3.08                      | 3.11             | 3.12             | 3.12               | 3.13               |
|                                                         | -13°F<br>(-25.0°C)    | 16684                               | 16350            | 16268            | 16203              | 16058              | 3.26                      | 3.29             | 3.30             | 3.30               | 3.32               |
|                                                         | -4°F<br>(-20.0°C)     | 20707                               | 20293            | 20192            | 20111              | 19930              | 3.53                      | 3.56             | 3.56             | 3.57               | 3.59               |
|                                                         | 0°F<br>(-17.8°C)      | 24118                               | 23636            | 23517            | 23423              | 23213              | 3.61                      | 3.64             | 3.65             | 3.66               | 3.67               |
|                                                         | 5°F<br>(-15.0°C)      | 28381                               | 27814            | 27675            | 27564              | 27316              | 3.72                      | 3.75             | 3.76             | 3.77               | 3.78               |
|                                                         | 14°F<br>(-10.0°C)     | 28080                               | 27518            | 27380            | 27271              | 27025              | 3.65                      | 3.68             | 3.69             | 3.70               | 3.71               |
|                                                         | 17°F<br>(-8.3°C)      | 27979                               | 27419            | 27282            | 27173              | 26929              | 3.63                      | 3.66             | 3.67             | 3.67               | 3.69               |
|                                                         | 22°F<br>(-5.6°C)      | 28981                               | 28402            | 28260            | 28146              | 27893              | 3.51                      | 3.54             | 3.55             | 3.55               | 3.57               |
|                                                         | 27°F<br>(-2.8°C)      | 29983                               | 29384            | 29237            | 29120              | 28858              | 3.40                      | 3.42             | 3.43             | 3.44               | 3.45               |
|                                                         | 32°F<br>(0.0°C)       | 30985                               | 30366            | 30214            | 30093              | 29822              | 3.28                      | 3.30             | 3.31             | 3.32               | 3.33               |
|                                                         | 35°F<br>(1.7°C)       | 31587                               | 30955            | 30800            | 30677              | 30401              | 3.21                      | 3.23             | 3.24             | 3.25               | 3.26               |
|                                                         | 37°F<br>(2.8°C)       | 33049                               | 32388            | 32226            | 32097              | 31809              | 3.33                      | 3.36             | 3.37             | 3.37               | 3.39               |
|                                                         | 42°F<br>(5.6°C)       | 36706                               | 35972            | 35792            | 35649              | 35328              | 3.64                      | 3.67             | 3.68             | 3.69               | 3.70               |
|                                                         | 44.6°F<br>(7.0°C)     | 38168                               | 37405            | 37218            | 37069              | 36736              | 3.77                      | 3.80             | 3.80             | 3.81               | 3.83               |
|                                                         | 47°F<br>(8.3°C)       | 40362                               | 39555            | 39357            | 39200              | 38847              | 3.95                      | 3.98             | 3.99             | 4.00               | 4.02               |
|                                                         | 52°F<br>(11.1°C)      | 35210                               | 34505            | 34333            | 34196              | 33888              | 3.31                      | 3.34             | 3.34             | 3.35               | 3.36               |
|                                                         | 57°F<br>(13.9°C)      | 30057                               | 29456            | 29308            | 29191              | 28929              | 2.67                      | 2.69             | 2.70             | 2.70               | 2.71               |
|                                                         | 59°F<br>(15.0°C)      | 27996                               | 27436            | 27299            | 27189              | 26945              | 2.41                      | 2.43             | 2.44             | 2.44               | 2.45               |
|                                                         | 62°F<br>(16.7°C)      | 24904                               | 24406            | 24284            | 24187              | 23969              | 2.03                      | 2.04             | 2.05             | 2.05               | 2.06               |
|                                                         | 64.4°F<br>(18.0°C)    | 22843                               | 22386            | 22274            | 22185              | 21985              | 1.77                      | 1.79             | 1.79             | 1.79               | 1.80               |

LEGEND  
+ TC: Total Cooling Capacity (BTU/hr)  
+ PI: Power Input (kW)  
+ DB: Dry Bulb  
+ WB: Wet Bulb