



ACiQ 48K Premium Central Ducted Air Handler (PAH) & 48K Extreme Heat Condenser (HPD)  
Extended Heating & Cooling Performance Tables

| 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 (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) | 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-48-PAH<br>ACiQ-48-HPD<br>(208-230V)<br>Test Airflow/CFM: 1600 | -22°F (-30.0°C)       | TC                        | 35373           | 35420           | 35459           | 35460           | 35508           | 37505           | 37549           | 37586           | 37594           | 37638           | 39745           | 39797           | 39841           | 39849           | 39893           | 42140           | 42186           | 42232           | 42238           | 42291           |
|                                                                    |                       | 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                        | 1.43            | 1.44            | 1.44            | 1.44            | 1.44            | 1.52            | 1.52            | 1.52            | 1.52            | 1.53            | 1.61            | 1.61            | 1.62            | 1.62            | 1.62            | 1.71            | 1.71            | 1.71            | 1.71            | 1.72            |
|                                                                    | -13°F (-25.0°C)       | TC                        | 38321           | 38372           | 38413           | 38415           | 38467           | 40630           | 40678           | 40718           | 40726           | 40775           | 43057           | 43113           | 43161           | 43169           | 43218           | 45652           | 45701           | 45751           | 45758           | 45815           |
|                                                                    |                       | 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                        | 1.55            | 1.56            | 1.56            | 1.56            | 1.56            | 1.65            | 1.65            | 1.65            | 1.65            | 1.65            | 1.75            | 1.75            | 1.75            | 1.75            | 1.75            | 1.85            | 1.85            | 1.86            | 1.86            | 1.86            |
|                                                                    | -4°F (-20.0°C)        | TC                        | 41268           | 41324           | 41368           | 41370           | 41426           | 43755           | 43807           | 43850           | 43859           | 43911           | 46369           | 46430           | 46481           | 46490           | 46542           | 49163           | 49217           | 49270           | 49278           | 49339           |
|                                                                    |                       | 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                        | 1.67            | 1.68            | 1.68            | 1.68            | 1.68            | 1.77            | 1.78            | 1.78            | 1.78            | 1.78            | 1.88            | 1.88            | 1.89            | 1.89            | 1.89            | 1.99            | 2.00            | 2.00            | 2.00            | 2.00            |
|                                                                    | 0°F (-17.8°C)         | TC                        | 42578           | 42636           | 42682           | 42684           | 42741           | 45144           | 45198           | 45243           | 45251           | 45305           | 47842           | 47904           | 47957           | 47966           | 48019           | 50724           | 50779           | 50834           | 50842           | 50906           |
|                                                                    |                       | 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                        | 1.73            | 1.73            | 1.73            | 1.73            | 1.73            | 1.83            | 1.83            | 1.84            | 1.84            | 1.84            | 1.94            | 1.94            | 1.95            | 1.95            | 1.95            | 2.06            | 2.06            | 2.06            | 2.06            | 2.06            |
|                                                                    | 5°F (-15.0°C)         | TC                        | 44216           | 44276           | 44323           | 44325           | 44385           | 46881           | 46936           | 46983           | 46992           | 47048           | 49682           | 49746           | 49802           | 49811           | 49866           | 52675           | 52732           | 52790           | 52798           | 52864           |
|                                                                    |                       | 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                        | 1.79            | 1.80            | 1.80            | 1.80            | 1.80            | 1.90            | 1.90            | 1.91            | 1.91            | 1.91            | 2.02            | 2.02            | 2.02            | 2.02            | 2.02            | 2.14            | 2.14            | 2.14            | 2.14            | 2.14            |
|                                                                    | 14°F (-10.0°C)        | TC                        | 45572           | 45634           | 45683           | 45685           | 45747           | 48319           | 48376           | 48424           | 48433           | 48491           | 51206           | 51272           | 51329           | 51396           | 51906           | 54291           | 54350           | 54409           | 54417           | 54485           |
|                                                                    |                       | 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                        | 2.40            | 2.41            | 2.41            | 2.41            | 2.41            | 2.55            | 2.55            | 2.55            | 2.55            | 2.56            | 2.70            | 2.70            | 2.71            | 2.71            | 2.71            | 2.86            | 2.87            | 2.87            | 2.87            | 2.87            |
|                                                                    | 17°F (-8.3°C)         | TC                        | 46025           | 46086           | 46136           | 46138           | 46200           | 48798           | 48856           | 48904           | 48914           | 48972           | 51714           | 51781           | 51839           | 51848           | 51906           | 54829           | 54889           | 54949           | 54957           | 55026           |
|                                                                    |                       | 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                        | 2.61            | 2.61            | 2.61            | 2.61            | 2.62            | 2.76            | 2.77            | 2.77            | 2.77            | 2.77            | 2.93            | 2.93            | 2.94            | 2.94            | 2.94            | 3.11            | 3.11            | 3.11            | 3.11            | 3.12            |
|                                                                    | 23°F (-5.0°C)         | TC                        | 48688           | 48754           | 48806           | 48809           | 48874           | 51823           | 51864           | 51735           | 51745           | 51806           | 54707           | 54778           | 54839           | 54849           | 54910           | 58003           | 58066           | 58129           | 58138           | 58211           |
|                                                                    |                       | 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                        | 3.03            | 3.03            | 3.04            | 3.04            | 3.04            | 3.21            | 3.22            | 3.22            | 3.22            | 3.22            | 3.40            | 3.41            | 3.41            | 3.41            | 3.41            | 3.61            | 3.61            | 3.62            | 3.62            | 3.62            |
|                                                                    | 35°F (1.7°C)          | TC                        | 54016           | 54089           | 54147           | 54149           | 54222           | 57271           | 57339           | 57396           | 57407           | 57475           | 60693           | 60772           | 60839           | 60851           | 60919           | 64350           | 64420           | 64490           | 64500           | 64580           |
|                                                                    |                       | 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                        | 3.87            | 3.88            | 3.88            | 3.88            | 3.88            | 3.89            | 4.11            | 4.11            | 4.11            | 4.12            | 4.35            | 4.36            | 4.36            | 4.36            | 4.37            | 4.61            | 4.62            | 4.62            | 4.62            | 4.63            |
|                                                                    | 41°F (5.0°C)          | TC                        | 51871           | 51941           | 51997           | 51999           | 52069           | 54997           | 55062           | 55117           | 55128           | 55193           | 58283           | 58359           | 58424           | 58435           | 58500           | 61795           | 61862           | 61929           | 61939           | 62016           |
|                                                                    |                       | 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                        | 3.66            | 3.67            | 3.67            | 3.67            | 3.67            | 3.88            | 3.89            | 3.89            | 3.89            | 3.89            | 4.11            | 4.12            | 4.12            | 4.12            | 4.13            | 4.36            | 4.37            | 4.37            | 4.37            | 4.38            |
|                                                                    | 47°F (8.3°C)          | TC                        | 49726           | 49793           | 49847           | 49849           | 49916           | 52723           | 52786           | 52838           | 52848           | 52911           | 55873           | 55946           | 56008           | 56018           | 56081           | 59240           | 59304           | 59368           | 59378           | 59452           |
|                                                                    |                       | 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                        | 3.45            | 3.45            | 3.46            | 3.46            | 3.46            | 3.66            | 3.66            | 3.66            | 3.66            | 3.67            | 3.87            | 3.88            | 3.88            | 3.88            | 3.89            | 4.11            | 4.11            | 4.12            | 4.12            | 4.12            |
|                                                                    | 50°F (10.0°C)         | TC                        | 48914           | 48980           | 49033           | 49035           | 49101           | 51862           | 51924           | 51975           | 51985           | 52047           | 54961           | 55032           | 55093           | 55104           | 55165           | 58272           | 58336           | 58399           | 58408           | 58481           |
|                                                                    |                       | 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                        | 3.33            | 3.34            | 3.34            | 3.34            | 3.34            | 3.53            | 3.54            | 3.54            | 3.54            | 3.54            | 3.74            | 3.75            | 3.75            | 3.75            | 3.76            | 3.97            | 3.97            | 3.98            | 3.98            | 3.98            |
|                                                                    | 59°F (15.0°C)         | TC                        | 46479           | 46541           | 46591           | 46593           | 46656           | 49280           | 49338           | 49387           | 49396           | 49455           | 52224           | 52292           | 52350           | 52360           | 52418           | 55370           | 55431           | 55491           | 55500           | 55569           |
|                                                                    |                       | 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                        | 2.98            | 2.98            | 2.99            | 2.99            | 2.99            | 3.16            | 3.16            | 3.17            | 3.17            | 3.17            | 3.35            | 3.35            | 3.36            | 3.36            | 3.36            | 3.55            | 3.55            | 3.56            | 3.56            | 3.56            |
|                                                                    | 68°F (20.0°C)         | TC                        | 44043           | 44102           | 44149           | 44151           | 44211           | 46697           | 46752           | 46798           | 46808           | 46863           | 49487           | 49551           | 49606           | 49616           | 49671           | 52469           | 52526           | 52583           | 52591           | 52656           |
|                                                                    |                       | 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                        | 2.63            | 2.63            | 2.64            | 2.64            | 2.64            | 2.79            | 2.79            | 2.79            | 2.79            | 2.80            | 2.95            | 2.96            | 2.96            | 2.96            | 2.97            | 3.13            | 3.14            | 3.14            | 3.14            | 3.14            |
|                                                                    | 77°F (25.0°C)         | TC                        | 41607           | 41663           | 41708           | 41710           | 41766           | 44114           | 44167           | 44210           | 44219           | 44271           | 46750           | 46811           | 46863           | 46871           | 46924           | 49567           | 49621           | 49675           | 49682           | 49744           |
|                                                                    |                       | 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                        | 2.28            | 2.28            | 2.28            | 2.28            | 2.29            | 2.42            | 2.42            | 2.42            | 2.42            | 2.42            | 2.56            | 2.56            | 2.57            | 2.57            | 2.57            | 2.71            | 2.72            | 2.72            | 2.72            | 2.72            |
|                                                                    | 82°F (27.8°C)         | TC                        | 41511           | 41566           | 41611           | 41613           | 41669           | 44012           | 44064           | 44108           | 44117           | 44169           | 46642           | 46702           | 46754           | 46763           | 46815           | 49452           | 49506           | 49560           | 49567           | 49629           |
|                                                                    |                       | 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                        | 2.44            | 2.44            | 2.45            | 2.45            | 2.45            | 2.59            | 2.59            | 2.59            | 2.59            | 2.60            | 2.74            | 2.75            | 2.75            | 2.75            | 2.75            | 2.91            | 2.91            | 2.91            | 2.91            | 2.92            |
|                                                                    | 86°F (30.0°C)         | TC                        | 43020           | 43078           | 43124           | 43126           | 43184           | 45612           | 45666           | 45711           | 45720           | 45775           | 48337           | 48400           | 48454           | 48463           | 48517           | 51250           | 51306           | 51361           | 51369           | 51433           |
|                                                                    |                       | 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                        | 3.02            | 3.02            | 3.03            | 3.03            | 3.03            | 3.20            | 3.21            | 3.21            | 3.21            | 3.21            | 3.39            | 3.40            | 3.40            | 3.40            | 3.41            | 3.60            | 3.60            | 3.61            | 3.61            | 3.61            |
|                                                                    | 95°F (35.0°C)         | TC                        | 46415           | 46478           | 46528           | 46530           | 46593           | 49213           | 49271           | 49319           | 49329           | 49388           | 52153           | 52220           | 52279           | 52288           | 52347           | 55295           | 55355           | 55415           | 55424           | 55493           |
| S/T                                                                |                       | 0.53                      | 0.63            | 0.71            | 0.71            | 0.81            | 0.57            | 0.66            |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

HEATING PERFORMANCE

| Model                                                              | Outdoor<br>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-48-PAH<br>ACiQ-48-HPD<br>(208-230V)<br>Test Airflow/CFM: 1600 | -22°F<br>(-30.0°C)       | 31139                               | 30516            | 30363            | 30242              | 29970              | 5.67                      | 5.72             | 5.73             | 5.74               | 5.76               |
|                                                                    | -13°F<br>(-25.0°C)       | 37084                               | 36342            | 36160            | 36016              | 35692              | 6.22                      | 6.27             | 6.29             | 6.30               | 6.32               |
|                                                                    | -4°F<br>(-20.0°C)        | 44495                               | 43605            | 43387            | 43213              | 42825              | 6.16                      | 6.21             | 6.22             | 6.23               | 6.26               |
|                                                                    | 0°F<br>(-17.8°C)         | 46747                               | 45812            | 45583            | 45400              | 44992              | 6.35                      | 6.40             | 6.41             | 6.43               | 6.45               |
|                                                                    | 5°F<br>(-15.0°C)         | 49562                               | 48570            | 48328            | 48134              | 47701              | 6.59                      | 6.64             | 6.66             | 6.67               | 6.70               |
|                                                                    | 14°F<br>(-10.0°C)        | 49596                               | 48604            | 48361            | 48167              | 47734              | 6.55                      | 6.60             | 6.61             | 6.63               | 6.65               |
|                                                                    | 17°F<br>(-8.3°C)         | 49607                               | 48615            | 48372            | 48178              | 47745              | 6.53                      | 6.59             | 6.60             | 6.61               | 6.64               |
|                                                                    | 22°F<br>(-5.6°C)         | 50314                               | 49307            | 49061            | 48865              | 48425              | 6.40                      | 6.45             | 6.46             | 6.48               | 6.50               |
|                                                                    | 27°F<br>(-2.8°C)         | 51020                               | 50000            | 49750            | 49551              | 49105              | 6.26                      | 6.31             | 6.33             | 6.34               | 6.37               |
|                                                                    | 32°F<br>(0.0°C)          | 51727                               | 50692            | 50439            | 50237              | 49785              | 6.13                      | 6.18             | 6.19             | 6.20               | 6.23               |
|                                                                    | 35°F<br>(1.7°C)          | 52151                               | 51108            | 50852            | 50649              | 50193              | 6.05                      | 6.10             | 6.11             | 6.12               | 6.15               |
|                                                                    | 37°F<br>(2.8°C)          | 52598                               | 51546            | 51289            | 51083              | 50624              | 5.83                      | 5.88             | 5.89             | 5.90               | 5.92               |
|                                                                    | 42°F<br>(5.6°C)          | 53717                               | 52642            | 52379            | 52170              | 51700              | 5.28                      | 5.33             | 5.34             | 5.35               | 5.37               |
|                                                                    | 44.6°F<br>(7.0°C)        | 54164                               | 53081            | 52815            | 52604              | 52131              | 5.06                      | 5.11             | 5.12             | 5.13               | 5.15               |
|                                                                    | 47°F<br>(8.3°C)          | 54835                               | 53738            | 53469            | 53256              | 52776              | 4.74                      | 4.77             | 4.78             | 4.79               | 4.81               |
|                                                                    | 52°F<br>(11.1°C)         | 52539                               | 51488            | 51231            | 51026              | 50566              | 4.21                      | 4.25             | 4.25             | 4.26               | 4.28               |
|                                                                    | 57°F<br>(13.9°C)         | 50243                               | 49238            | 48992            | 48796              | 48357              | 3.69                      | 3.72             | 3.72             | 3.73               | 3.75               |
|                                                                    | 59°F<br>(15.0°C)         | 49324                               | 48338            | 48096            | 47904              | 47473              | 3.48                      | 3.50             | 3.51             | 3.52               | 3.53               |
|                                                                    | 62°F<br>(16.7°C)         | 47947                               | 46988            | 46753            | 46566              | 46147              | 3.16                      | 3.19             | 3.19             | 3.20               | 3.21               |
|                                                                    | 64.4°F<br>(18.0°C)       | 47028                               | 46088            | 45857            | 45674              | 45263              | 2.95                      | 2.98             | 2.98             | 2.99               | 3.00               |

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