

### Single - Pass Piping

| Model  | Entering Air Temp [F] | Entering Air Humidity [%] | Entering Water Temp [F] | Leaving Water Temp [F] | Supply Heating Capacity [Btu/hr] | Heating COP | Air Cooling Capacity [Btu/hr] | Cooling COP | CFM  |
|--------|-----------------------|---------------------------|-------------------------|------------------------|----------------------------------|-------------|-------------------------------|-------------|------|
| AHP60  | 25                    | 60                        | 40                      | 140                    | 36,904                           | 2.39        | 25,628                        | 1.66        | 5087 |
|        |                       |                           | 50                      | 140                    | 37,018                           | 2.37        | 25,073                        | 1.61        |      |
|        | 35                    | 60                        | 40                      | 140                    | 42,861                           | 2.73        | 29,894                        | 1.91        | 4253 |
|        |                       |                           | 50                      | 140                    | 41,782                           | 2.64        | 29,431                        | 1.86        |      |
|        | 45                    | 60                        | 40                      | 140                    | 46,875                           | 2.99        | 34,585                        | 2.21        | 3784 |
|        |                       |                           | 50                      | 140                    | 46,230                           | 2.92        | 33,589                        | 2.12        |      |
|        | 55                    | 60                        | 40                      | 140                    | 52,809                           | 3.30        | 40,397                        | 2.53        | 3399 |
|        |                       |                           | 50                      | 140                    | 52,394                           | 3.23        | 39,363                        | 2.43        |      |
|        | 65                    | 60                        | 40                      | 140                    | 59,651                           | 3.67        | 46,734                        | 2.87        | 2989 |
|        |                       |                           | 50                      | 140                    | 58,878                           | 3.58        | 45,809                        | 2.78        |      |
|        | 75                    | 60                        | 40                      | 140                    | 65,000                           | 3.93        | 52,444                        | 3.17        | 2553 |
|        |                       |                           | 50                      | 140                    | 64,262                           | 3.85        | 51,507                        | 3.08        |      |
|        | 85                    | 60                        | 40                      | 140                    | 70,523                           | 4.26        | 58,016                        | 3.51        | 2071 |
|        |                       |                           | 50                      | 140                    | 69,789                           | 4.17        | 57,101                        | 3.41        |      |
|        | 95                    | 60                        | 40                      | 140                    | 73,872                           | 4.50        | 61,272                        | 3.73        | 1544 |
|        |                       |                           | 50                      | 140                    | 72,943                           | 4.39        | 60,404                        | 3.63        |      |
| Model  | Entering Air Temp [F] | Entering Air Humidity [%] | Entering Water Temp [F] | Leaving Water Temp [F] | Supply Heating Capacity [Btu/hr] | Heating COP | Air Cooling Capacity [Btu/hr] | Cooling COP | CFM  |
| AHP140 | 25                    | 60                        | 40                      | 140                    | 74,609                           | 2.40        | 47,203                        | 1.52        | 8047 |
|        |                       |                           | 50                      | 140                    | 73,775                           | 2.33        | 46,575                        | 1.47        |      |
|        | 35                    | 60                        | 40                      | 140                    | 83,634                           | 2.61        | 56,522                        | 1.76        | 7275 |
|        |                       |                           | 50                      | 140                    | 83,074                           | 2.55        | 55,674                        | 1.71        |      |
|        | 45                    | 60                        | 40                      | 140                    | 93,706                           | 2.89        | 65,954                        | 2.03        | 6720 |
|        |                       |                           | 50                      | 140                    | 92,916                           | 2.82        | 65,125                        | 1.98        |      |
|        | 55                    | 60                        | 40                      | 140                    | 105,572                          | 3.15        | 77,463                        | 2.31        | 6196 |
|        |                       |                           | 50                      | 140                    | 105,124                          | 3.09        | 76,134                        | 2.24        |      |
|        | 65                    | 60                        | 40                      | 140                    | 118,953                          | 3.45        | 89,873                        | 2.61        | 5701 |
|        |                       |                           | 50                      | 140                    | 117,615                          | 3.37        | 88,282                        | 2.53        |      |
|        | 75                    | 60                        | 40                      | 140                    | 132,172                          | 3.74        | 103,661                       | 2.93        | 5278 |
|        |                       |                           | 50                      | 140                    | 130,933                          | 3.65        | 102,025                       | 2.85        |      |
|        | 85                    | 60                        | 40                      | 140                    | 141,599                          | 3.96        | 114,478                       | 3.20        | 4791 |
|        |                       |                           | 50                      | 140                    | 140,506                          | 3.88        | 111,911                       | 3.09        |      |
|        | 95                    | 60                        | 40                      | 140                    | 159,724                          | 4.45        | 131,163                       | 3.65        | 4170 |
|        |                       |                           | 50                      | 140                    | 159,651                          | 4.37        | 130,747                       | 3.58        |      |

### Single - Pass Piping

| Model  | Entering Air Temp [F] | Entering Air Humidity [%] | Entering Water Temp [F] | Leaving Water Temp [F] | Supply Heating Capacity [Btu/hr] | Heating COP | Air Cooling Capacity [Btu/hr] | Cooling COP | CFM   |
|--------|-----------------------|---------------------------|-------------------------|------------------------|----------------------------------|-------------|-------------------------------|-------------|-------|
| AHP200 | 25                    | 60                        | 40                      | 140                    | 111,513                          | 2.40        | 72,831                        | 1.59        | 13134 |
|        |                       |                           | 50                      | 140                    | 110,793                          | 2.35        | 71,648                        | 1.54        |       |
|        | 35                    | 60                        | 40                      | 140                    | 126,495                          | 2.67        | 86,416                        | 1.84        | 11528 |
|        |                       |                           | 50                      | 140                    | 124,856                          | 2.59        | 85,105                        | 1.78        |       |
|        | 45                    | 60                        | 40                      | 140                    | 140,581                          | 2.94        | 100,539                       | 2.12        | 10504 |
|        |                       |                           | 50                      | 140                    | 139,146                          | 2.87        | 98,714                        | 2.05        |       |
|        | 55                    | 60                        | 40                      | 140                    | 158,381                          | 3.23        | 117,860                       | 2.42        | 9595  |
|        |                       |                           | 50                      | 140                    | 157,518                          | 3.16        | 115,497                       | 2.33        |       |
|        | 65                    | 60                        | 40                      | 140                    | 178,604                          | 3.56        | 136,607                       | 2.74        | 8690  |
|        |                       |                           | 50                      | 140                    | 176,493                          | 3.47        | 134,091                       | 2.66        |       |
|        | 75                    | 60                        | 40                      | 140                    | 197,172                          | 3.84        | 156,105                       | 3.05        | 7831  |
|        |                       |                           | 50                      | 140                    | 195,195                          | 3.75        | 153,532                       | 2.97        |       |
|        | 85                    | 60                        | 40                      | 140                    | 212,122                          | 4.11        | 172,494                       | 3.35        | 6862  |
|        |                       |                           | 50                      | 140                    | 210,295                          | 4.02        | 169,012                       | 3.25        |       |
|        | 95                    | 60                        | 40                      | 140                    | 233,596                          | 4.47        | 192,435                       | 3.69        | 5714  |
|        |                       |                           | 50                      | 140                    | 232,594                          | 4.38        | 191,151                       | 3.61        |       |
| Model  | Entering Air Temp [F] | Entering Air Humidity [%] | Entering Water Temp [F] | Leaving Water Temp [F] | Supply Heating Capacity [Btu/hr] | Heating COP | Air Cooling Capacity [Btu/hr] | Cooling COP | CFM   |
| AHP280 | 25                    | 60                        | 40                      | 140                    | 149,218                          | 2.40        | 94,406                        | 1.52        | 16094 |
|        |                       |                           | 50                      | 140                    | 147,550                          | 2.33        | 93,150                        | 1.47        |       |
|        | 35                    | 60                        | 40                      | 140                    | 167,268                          | 2.61        | 113,044                       | 1.76        | 14550 |
|        |                       |                           | 50                      | 140                    | 166,148                          | 2.55        | 111,348                       | 1.71        |       |
|        | 45                    | 60                        | 40                      | 140                    | 187,412                          | 2.89        | 131,908                       | 2.03        | 13440 |
|        |                       |                           | 50                      | 140                    | 185,832                          | 2.82        | 130,250                       | 1.98        |       |
|        | 55                    | 60                        | 40                      | 140                    | 211,144                          | 3.15        | 154,926                       | 2.31        | 12392 |
|        |                       |                           | 50                      | 140                    | 210,248                          | 3.09        | 152,268                       | 2.24        |       |
|        | 65                    | 60                        | 40                      | 140                    | 237,906                          | 3.45        | 179,746                       | 2.61        | 11402 |
|        |                       |                           | 50                      | 140                    | 235,230                          | 3.37        | 176,564                       | 2.53        |       |
|        | 75                    | 60                        | 40                      | 140                    | 264,344                          | 3.74        | 207,322                       | 2.93        | 10556 |
|        |                       |                           | 50                      | 140                    | 261,866                          | 3.65        | 204,050                       | 2.85        |       |
|        | 85                    | 60                        | 40                      | 140                    | 283,198                          | 3.96        | 228,956                       | 3.20        | 9582  |
|        |                       |                           | 50                      | 140                    | 281,012                          | 3.88        | 223,822                       | 3.09        |       |
|        | 95                    | 60                        | 40                      | 140                    | 319,448                          | 4.45        | 262,326                       | 3.65        | 8340  |
|        |                       |                           | 50                      | 140                    | 319,302                          | 4.37        | 261,494                       | 3.58        |       |

| Single - Pass Piping |                       |                           |                         |                        |                                  |             |                               |             |       |
|----------------------|-----------------------|---------------------------|-------------------------|------------------------|----------------------------------|-------------|-------------------------------|-------------|-------|
| Model                | Entering Air Temp [F] | Entering Air Humidity [%] | Entering Water Temp [F] | Leaving Water Temp [F] | Supply Heating Capacity [Btu/hr] | Heating COP | Air Cooling Capacity [Btu/hr] | Cooling COP | CFM   |
| AHP350               | 25                    | 60                        | 40                      | 140                    | 186,122                          | 2.40        | 120,034                       | 1.57        | 21181 |
|                      |                       |                           | 50                      | 140                    | 184,568                          | 2.35        | 118,223                       | 1.52        |       |
|                      | 35                    | 60                        | 40                      | 140                    | 210,129                          | 2.65        | 142,938                       | 1.81        | 18803 |
|                      |                       |                           | 50                      | 140                    | 207,930                          | 2.58        | 140,779                       | 1.76        |       |
|                      | 45                    | 60                        | 40                      | 140                    | 234,287                          | 2.92        | 166,493                       | 2.09        | 17224 |
|                      |                       |                           | 50                      | 140                    | 232,062                          | 2.85        | 163,839                       | 2.02        |       |
|                      | 55                    | 60                        | 40                      | 140                    | 263,953                          | 3.20        | 195,323                       | 2.38        | 15791 |
|                      |                       |                           | 50                      | 140                    | 262,642                          | 3.14        | 191,631                       | 2.30        |       |
|                      | 65                    | 60                        | 40                      | 140                    | 297,557                          | 3.52        | 226,480                       | 2.70        | 14391 |
|                      |                       |                           | 50                      | 140                    | 294,108                          | 3.44        | 222,373                       | 2.61        |       |
|                      | 75                    | 60                        | 40                      | 140                    | 329,344                          | 3.80        | 259,766                       | 3.01        | 13109 |
|                      |                       |                           | 50                      | 140                    | 326,128                          | 3.72        | 255,557                       | 2.93        |       |
|                      | 85                    | 60                        | 40                      | 140                    | 353,721                          | 4.06        | 286,972                       | 3.30        | 11653 |
|                      |                       |                           | 50                      | 140                    | 350,801                          | 3.97        | 280,923                       | 3.20        |       |
|                      | 95                    | 60                        | 40                      | 140                    | 393,320                          | 4.46        | 323,598                       | 3.68        | 9884  |
|                      |                       |                           | 50                      | 140                    | 392,245                          | 4.38        | 321,898                       | 3.60        |       |