## Specification Capacity Data Sheet

## HRHPX048

| Water Loop |  |  |  | Ground Water |  |  |  | Ground Loop |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cooling |  | Heating |  | Cooling |  | Heating |  |  | Cooling |  |  |
| Capacity | EER | Capacity | COP | Capacity | EER | Capacity | COP | Capacity | EER | Capacity | COP |
| 51,000 | 18.0 | 58,000 | 5.0 | 57,000 | 27.0 | 50,000 | 4.3 | 53,000 | 20 | 39,000 | 3.6 |


| Performance at |  |
| :---: | :---: |
| 1.600 | CFM |
| 12.0 | GPM |


| Cooling |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Entering <br> Fluid <br> Temp $\left({ }^{\circ} \mathrm{F}\right)$ | Entering Air Temp ( ${ }^{\circ} \mathrm{F}$ ) | Total Capacity (MBtuH) | Sensible Capacity (MBtuH) | SHF | Power Input (kW) | Heating of Reject (MBtuH) | EER |
| 50 |  | 53.61 | 35.38 | 0.66 | 2.25 | 59.69 | 30.1 |
| 59 |  | 51.60 | 34.40 | 0.67 | 2.53 | 58.61 | 25.1 |
| 70 |  | 49.05 | 33.17 | 0.68 | 2.83 | 57.09 | 20.8 |
| 86 |  | 45.65 | 32.01 | 0.70 | 3.34 | 55.44 | 15.9 |
| 100 |  | 41.80 | 29.62 | 0.71 | 3.82 | 53.22 | 12.5 |
| 50 |  | 55.50 | 39.89 | 0.72 | 2.24 | 61.55 | 31.3 |
| 59 |  | 53.43 | 38.87 | 0.73 | 2.52 | 60.42 | 26.1 |
| 70 |  | 51.23 | 38.28 | 0.75 | 2.85 | 59.34 | 21.5 |
| 86 |  | 46.91 | 35.76 | 0.76 | 3.34 | 56.72 | 16.3 |
| 100 |  | 44.88 | 35.16 | 0.78 | 3.90 | 56.58 | 13.1 |
| 50 |  | 59.08 | 43.83 | 0.74 | 2.22 | 65.05 | 33.7 |
| 59 |  | 57.00 | 43.06 | 0.76 | 2.58 | 64.20 | 27.0 |
| 70 |  | 54.16 | 42.05 | 0.78 | 2.84 | 62.25 | 22.8 |
| 86 | 66.2 wb | 51.00 | 40.09 | 0.79 | 3.30 | 60.67 | 18.0 |
| 100 |  | 46.30 | 38.74 | 0.84 | 3.82 | 57.74 | 13.8 |
| 50 |  | 63.80 | 42.84 | 0.67 | 2.18 | 69.64 | 37.3 |
| 59 |  | 61.39 | 42.12 | 0.69 | 2.48 | 68.23 | 30.6 |
| 70 |  | 58.37 | 40.96 | 0.70 | 2.83 | 66.42 | 24.7 |
| 86 |  | 54.01 | 39.46 | 0.73 | 3.34 | 63.81 | 18.8 |
| 100 |  | 50.07 | 37.88 | 0.76 | 3.82 | 61.51 | 14.9 |


| Fluid Press. Drop |  |  |
| :---: | :---: | :---: |
| Fluid Flow <br> (GPM) | Pressure Drop |  |
|  | (FOH) | (PSIG) |
| 6.0 | 3.3 | 1.4 |
| 8.0 | 5.9 | 2.6 |
| 10.6 | 10.2 | 4.4 |
| 12.0 | 13.1 | 5.7 |
| 15.0 | 20.5 | 8.9 |



| Heating |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Entering <br> Fluid <br> Temp ( ${ }^{\circ} \mathrm{F}$ ) | Entering Air Temp ( ${ }^{\circ} \mathrm{F}$ ) | Total Capacity (MBtuH) | Power Input (kW) | Heating of Abs. (MBtuH) | COP |
| 50 |  | 49.68 | 3.57 | 39.12 | 4.7 |
| 60 | 60 | 55.83 | 3.64 | 45.02 | 5.2 |
| 68 | 60 | 60.84 | 3.70 | 49.82 | 5.5 |
| 80 |  | 68.28 | 3.77 | 57.03 | 6.1 |
| 50 |  | 50.00 | 3.88 | 38.37 | 4.3 |
| 60 | 68 | 54.70 | 3.89 | 43.05 | 4.7 |
| 68 |  | 58.00 | 3.87 | 46.40 | 5.0 |
| 80 |  | 66.85 | 4.04 | 54.66 | 5.5 |
| 50 |  | 47.72 | 4.21 | 34.96 | 3.7 |
| 60 | 80 | 53.13 | 4.29 | 40.08 | 4.1 |
| 68 | 8 | 57.74 | 4.37 | 44.42 | 4.3 |
| 80 |  | 64.87 | 4.50 | 51.13 | 4.7 |


| Low Temp Heating (with Antifreeze by ARI-ISO13256-1) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Entering Fluid Temp ( ${ }^{\circ} \mathrm{F}$ ) | Entering Air Temp ( ${ }^{\circ} \mathrm{F}$ ) | Total Capacity (MBtuH) | Power Input (kW) | Heating of Abs. (MBtuH) | COP |
| 25 |  | 36.08 | 3.32 | 26.35 | 3.7 |
| 32 | 60 | 39.61 | 3.39 | 29.65 | 4.0 |
| 40 |  | 43.73 | 3.45 | 33.54 | 4.3 |
| 25 |  | 35.58 | 3.57 | 25.02 | 3.4 |
| 32 | 68 | 39.00 | 3.65 | 28.17 | 3.6 |
| 40 |  | 42.95 | 3.67 | 32.02 | 3.9 |
| 25 |  | 34.86 | 3.93 | 23.05 | 3.0 |
| 32 | 80 | 38.16 | 3.98 | 26.18 | 3.2 |
| 40 |  | 42.25 | 4.06 | 29.99 | 3.4 |

Units are subject to change without notice please contact us for up-to-date values.

