

# Air Source Modular Heat Pump

## Redefine the Concept of Sustainable Comfort

At ChillMaster®, we're on a mission to revolutionize heating and cooling systems, making them more sustainable and environmentally friendly. Our Air Source Heat Pumps are at the heart of this mission, offering high efficiency and sustainability.

ChillMaster's air source heat pumps not only delivers hot water at 140°F (60°C) with peak COP but also boasts a wide operating range, ensuring versatility in various applications. What's more, it uses low GWP R-454b refrigerant, making it the top choice for eco-conscious commercial environments like offices and schools.

## Operate More Sustainability

ChillMaster air source modular heat pumps are an affordable and effective first step towards decarbonizing commercial, industrial, and institutional buildings.

Unlike conventional electric resistance, heat pumps excel are up to three times more energy-efficient.

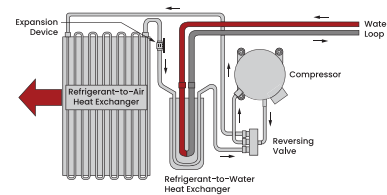
Opting for an all-electric heating and cooling system is smart when you are striving to meet regulations, attain certifications or achieve a net zero energy building.



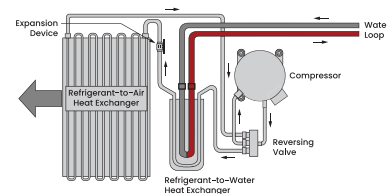
## Decarbonize with Confidence

- All-in-one, simultaneous heating and cooling solution
- 30 ton modular design with single point electrical connection, allowing up to 10 linked modules for large capacity applications
- Reliable operation in ambient temperatures of -15°F ~ 140°F
- Cooling mode: 30 tons cooling with 40°F chilled water
- Heating mode: 140°F domestic/hydronic water
- Refrigerant: R-454b
  - GWP = 466 (AR4)/467 (AR5), 78% reduction vs. R-410A
- High-efficiency liquid injection scroll compressor
- 2-pipe, 4-pipe, and domestic water heating configurations
- 24/7 cellular remote monitoring
- Engineered, manufactured and tested in Murfreesboro, TN

Heat Pump in Cooling Mode



Heat Pump in Heating Mode



## ChillMaster AMP Air Source Heat Pump (2-Pipe or 4-Pipe System)

|                                  |  |         |                                     |
|----------------------------------|--|---------|-------------------------------------|
| <b>Performance</b>               | <b>Cooling Mode</b>                            |         |                                     |
|                                  | Cooling Capacity                               | Ton     | 30                                  |
|                                  | Input Power                                    | kW      | 30/6                                |
|                                  | EER  | Btu/w   | 10.5                                |
|                                  | <b>Heating Mode</b>                            |         |                                     |
|                                  | Heating Capacity                               | Btu/h   | 432,000                             |
|                                  | Input Power                                    | kW      | 31.7                                |
| <b>Refrigerant</b>               | Type   | No.     | R-454b or R-410a                    |
|                                  | Refrigerant Circuit                            | No.     | 1 or 2                              |
| <b>Compressor</b>                | Type   |         | Liquid Injection Scroll             |
|                                  | Capacity Step                                  |         | 2                                   |
|                                  | Quantity                                       | No.     | 2                                   |
| <b>Air Side Heat Exchanger</b>   | Coil Type                                      |         | Copper Tube, Aluminum Plate Fin     |
|                                  | Fan Type                                       |         | High Static Axial ECM Fans          |
|                                  | Fan Quantity                                   | No.     | 2                                   |
|                                  | Working Ambient Temp (Cooling)                 | °F      | -5 ~ 140                            |
|                                  | Working Ambient Temp (Heating)                 | °F      | -15 ~ 95                            |
| <b>Water Side Heat Exchanger</b> | Type   |         | Braze Plate, Double-Wall or Coaxial |
|                                  | Water Connection Type                          |         | Victaulic                           |
|                                  | Norminal Water Flow Rate (Cooling)             | gpm     | 64.3                                |
|                                  | Norminal Water Flow Rate (Heating)             | gpm     | 81.9                                |
|                                  | Pressure Drop (Cooling)                        | ft H2O  | 15                                  |
|                                  | Pressure Drop (Heating)                        | ft H2O  | 15                                  |
|                                  | Minimum Leaving Water Temp (Cooling)           | °F      | 35                                  |
|                                  | Minimum Leaving Water Temp (Heating @ 5°F EAT) | °F      | 140                                 |
| <b>Dimensions and Weight</b>     | Length   | In      | 96                                  |
|                                  | Width  | In      | 48                                  |
|                                  | Height   | In      | 89                                  |
|                                  | Shipping Weight                                | lb      | 3100                                |
|                                  | Operation Weight                               | lb      | 3500                                |
| <b>Electrical</b>                | Voltage  | V/ph/hz | 460/3/60 (230/3/60)                 |
|                                  | MOP  | A       | 100 (200)                           |
|                                  | MCA  | A       | 75 (150)                            |
|                                  | RLA  | A       | 69 (135)                            |
|                                  | SCCR   | kA      | 65                                  |

Learn more at [chillmaster.net](http://chillmaster.net)

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**CHILLMASTER**  
Heating and Cooling Equipment