

# AWHP SERIES

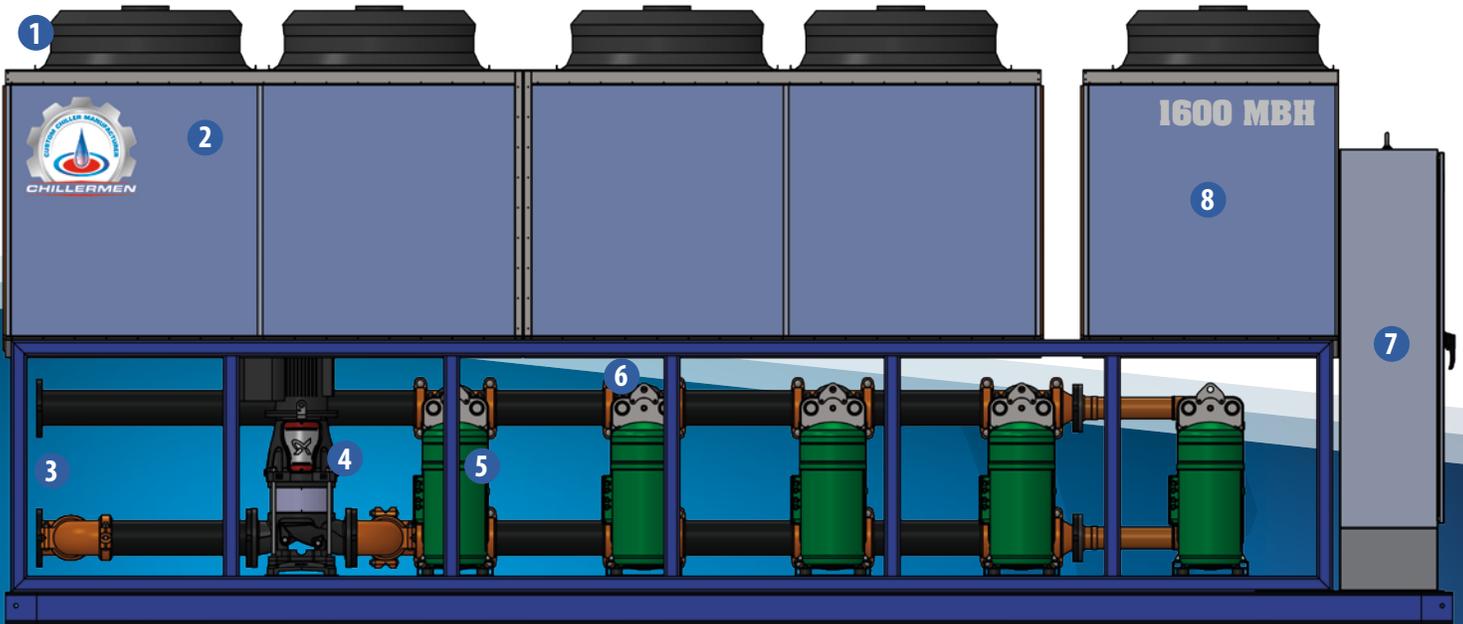
## AIR-TO-WATER HEAT PUMP

*Highest COP in the Industry*



# AWHP 1600 AIR-TO-

- 1 → Quiet EC Fans with VSDs
- 2 → Copper Core Evaporator Coils
- 3 → Hot Water Supply & Return Connections
- 4 → High efficiency Pump with Integrated VFDs
- 5 → Scroll Compressors with External VFDs
- 6 → Brazen Plate Condenser
- 7 → Control Panel
- 8 → Patented Evaporator Frost Detection



## APPLICATION TYPES

- Industrial Heating
- Comfort Heating
- Demand Response Program
- All Electric Building Heat



MANUFACTURING



COMMERCIAL BUILDINGS



PHARMACEUTICAL



DEMAND RESPONSE

# WATER TREATMENT SYSTEMS

## SYSTEM BENEFITS

### PLUG AND PLAY OPERATION

- Single point power and water connection
- Systems available in either 208 or 460 VAC 3 phase
- Heavy duty steel skid construction
- Rotating lifting lugs for accessible rigging
- System tested, charged and pre-programmed

### PROPRIETARY CONTROLS PARADIGM

- Controls software designed by Chillermen in house to ensure optimal temperature accuracy and precision
- System redundant safety controls
- Safeties include: high/low pressure switches, fluid flow switches, current transmitters, equal run time sequencers (where applicable), PID temperature control
- Fastest defrost cycle in the industry

## STANDARD FEATURES

- 3-D Modeling
- Electronic TXV's
- Diagnostic Display
- Isolation Valves
- Current Transmitters
- 5 Stage Compressors
- Outgoing Temp Control
- UL Listed Electrical Parts
- Outdoor Rated Enclosures
- I-Beam Frame Construction
- Pre-charged R-410A POE Oil
- Programmable PLC Controller
- Factory Tuned and Load Tested
- Patented Frost Detection System
- High / Low Pressure Mechanical Safeties
- High Condensing Mechanical Temp Safeties

### SERVICEABILITY AND RELIABILITY

- Systems designed for ease of service and maintenance
- Safety systems maximize equipment life span, reduce maintenance cost and minimize down time

### CONFORMANCE AND REGULATIONS

- UL Listed and approved system parts
- Conforms with all California Title 24 and CalGreen Requirements and Voluntary Limitations.

## OPTIONAL FEATURES

- Compressor Sound Boots
- Integrated Pump Packages
- Ultra Low **GWP** Refrigerants
- Variable Speed Pumps (VFD)
- Electronic Hot Gas Bypass System
- Variable Speed Compressors (VFD)

## PRODUCT SUPPORT

- Emergency Service
- In-house Technical Support
- Global Factory Start-up Available
- North America Maintenance Contracts Available

## MANUFACTURING

- Express Build Available
- Standard 10-12 Week Production Time



## AIR-TO-WATER HEAT PUMP @ 80°F HWS

AMBIENT TEMP (°F)	HEATING CAPACITY (MBH)	COP*
29	1600	3.69
34	1600	4.21

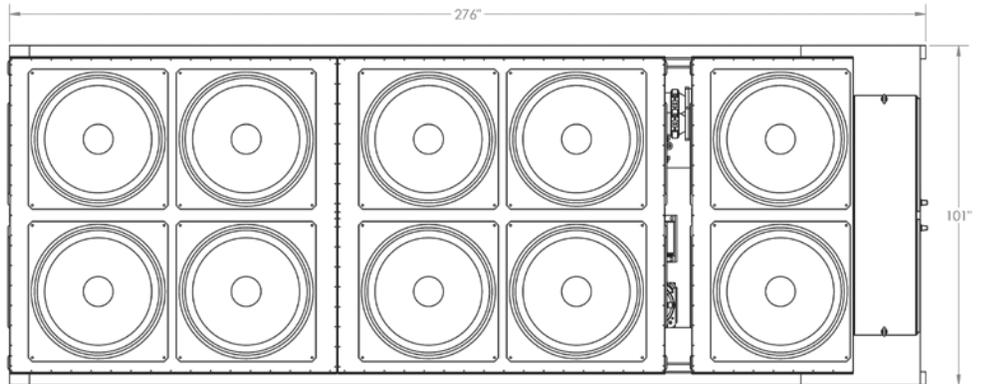
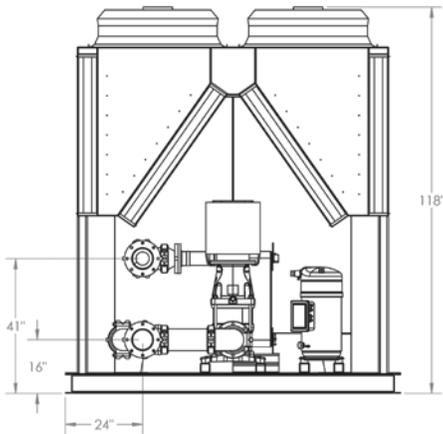
\* COP includes defrost cycle

## AIR-TO-WATER HEAT PUMP @ 60°F HWS

AMBIENT TEMP (°F)	HEATING CAPACITY (MBH)	COP*
40	1888	5.46
50	1876	6.53+

\* COP includes defrost cycle

+ No defrost cycle required at these conditions



### DIMENSIONS

Width: 101" | Length: 276" | Height: 118"

### OPERATING WEIGHT

14,000 lb.

### CONNECTIONS

6" Steel Flange Connections HWS/R

**800.953.7700** ♦ **CHILLERMEN.COM**

340 S. Milpitas Blvd., Milpitas, CA 95035 ♦ 11281 Pyrites Way, Suite A • Gold River, CA 95670

