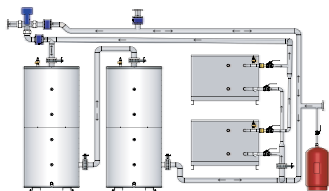
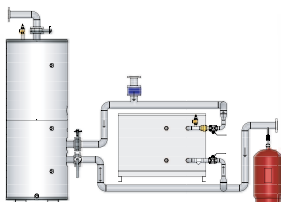


## SINGLE-PASS



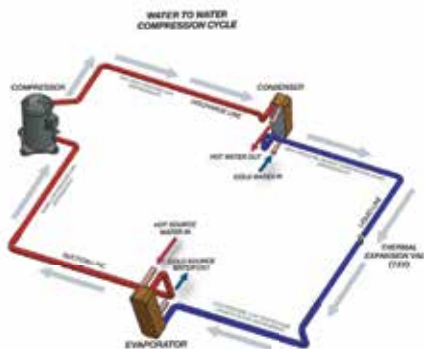
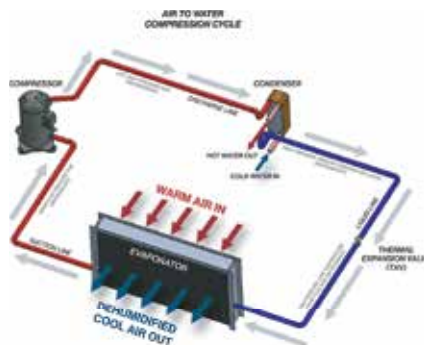
## MULTI-PASS



Options		60	90	185	250
PLC (Programmable Logic Controller)		Option	Option	Included	Included
MCP (Master Control Panel)		Option	Option	Option	Option
Modbus to BAC-net Gateway		Option	Option	Option	Option
Power	208-230V/1PH/60HZ	Included	N/A	N/A	N/A
	208-230V/3PH/60HZ	N/A	N/A	Option	Option
	440-480V/3PH/60HZ	N/A	N/A	Option	Option
	575V/3PH/60HZ	N/A	N/A	Option	Option
VFD (Variable Frequency Drives)	208-230V	N/A	N/A	Option	Option
	440-480V	N/A	N/A	Option	Option
	575V	N/A	N/A	Option	Option
Urethane Coating		Option	Option	Option	Option
Evaporator	Coated Air Coil	Option	Option	Option	Option
	Single Wall Brazed Plate HEX	Option	Option	Option	Option
Fan Type (air source models only)	Axial	Option	Option	Option	Option
	Blower	Option	Option	Option	Option
Cold Weather Package		Option	Option	Option	Option
Single-Pass		Option	Option	Option	Option
Multi-Pass		Option	Option	Option	Option
5-Year Extended Compressor Warranty		Option	Option	Option	Option

Consult factory for option compatibility

## HOW IT WORKS



It's more efficient, and less expensive, to move heat than create it. State commercial air and water source heat pumps draw heat energy from ambient air or available source water to provide a more efficient, zero-emissions solution for your water heating needs.

The diagrams above illustrate how a basic refrigeration cycle functions in our heat pump water heaters. State has models with heating capacities from 60,000 to more than 2,000,000 BTU/h to satisfy a wide range of commercial water heating applications.



## COMMERCIAL HEAT PUMP WATER HEATING SYSTEMS



State | [statewaterheaters.com](http://statewaterheaters.com)

500 Tennessee Waltz Parkway | Ashland City, TN 37015 | 800.527.1953  
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## AIR SOURCE HEAT PUMP

- Up to 160°F maximum water temperature
- Heating capacity from 60,000 to 250,000 BTU/h
- 50 to 500 gallons per hour recovery rates
- Environmentally-friendly R134a refrigerant
- Double-wall condenser for potable water heating
- Integrated potable water-approved pump
- BACnet compatible logic controller optional
- Suitable for indoor and outdoor applications

The SHPA Series is a family of zero-emissions, high-efficiency, air-to-water heat pump water heaters that can be configured to meet specific design specifications. Four models, delivering heating capacities of 60,000 to 250,000 BTU/h, generate from 50 to 500 gallons per hour of hot water, depending on model.

Model	Heating Capacity*	Amps RLA		H	W	D
		230V	460V			
SHPA-60	63,225	23.9	12	34-5/8"	30-3/4"	34-5/8"
SHPA-90	110,725	39.3	20.8	40"	30-3/4"	70"
SHPA-185	224,675	81.3	36.5	45-1/8"	33-3/4"	96-1/8"
SHPA-250	272,450	95.4	49.1	67-3/4"	55-3/8"	84-1/2"

\*75°F Dry Bulb / 60% humidity

\*Water heated from 50°F to 150°F



## WATER SOURCE HEAT PUMP

- Up to 160°F maximum water temperature
- Heating capacity from 60,000 to 250,000 BTU/h
- 50 to 500 gallons per hour recovery rates
- Absorbs heat from water sources including process and ground water
- Environmentally-friendly R134a refrigerant
- Double-wall condenser for potable water heating
- Integrated potable water-approved pump
- Suitable for indoor and outdoor applications

The SHPW Series is a family of zero-emissions, high-efficiency, water-to-water heat pump water heaters that absorb waste heat from water sources such as return chiller water, process and groundwater. Three models, delivering heating capacities of 60,000 to 250,000 BTU/h, generate from 50 to 500 gallons per hour of hot water, depending on model.

Model	Heating Capacity*	Amps RLA		H	W	D
		230V	460V			
SHPW-60	57,423	30.1	11	28-7/8"	34-1/4"	38-7/8"
SHPW-90	111,175	37.2	19.8	28-7/8"	34-1/4"	38-7/8"
SHPW-185	222,950	78	35	38-1/8"	67-3/4"	48-7/8"

\*80°F source water



## MODULAR SOURCE HEAT PUMP

- Up to 160°F maximum water temperature
- Heating capacity from 270,000 to > 2,000,000 BTU/h
- 323 to 2,584 gallons per hour recovery rates
- Absorbs heat from water sources including return chiller water, process and ground water
- Environmentally-friendly R134a refrigerant
- Double-wall condenser for potable water heating
- BACnet compatible logic controller optional
- Suitable for indoor and outdoor applications

The SHPM Series is a family of zero-emissions, high-efficiency, water-to-water modular heat pump water heaters that absorb waste heat from water sources such as return chiller water, process and groundwater. Eight models, with heating capacities of 270,000 to more than 2,000,000 BTU/h, generate from 323 to 2,584 gallons per hour of hot water, depending on model.

Model	Heating Capacity *	Amps RLA		H	W	D
		230V	460V			
SHPM-270	277,100	92.9	49.3	67-1/4"	36-1/4"	34-7/8"
SHPM-540	554,200	185.8	98.6	75-1/4"	36-1/4"	67-1/4"
SHPM-810	831,300	278.7	147.9	75-1/4"	36-1/4"	99-5/8"
SHPM-1080	1,108,400	371.6	197.2	Based on configuration		
SHPM-1350	1,385,500	464.5	246.5			
SHPM-1620	1,662,600	557.4	295.8			
SHPM-1890	1,939,700	Consult factory for details				
SHPM-2160	2,216,800					

\*80°F source water