## Climatic Water/Water Heat Pump Water Source Heat Pump

#### **Atecpool Climatic Water Source Heat Pump**

Water-to-Water Heat Pump is a system of heating or cooling that involves the transfer of heat by a circulating fluid (as water or vapor) in a closed system of pipes.

Atecpool Climatic ATWSHP Series for heating includes a special high temperature scroll compressor coupled with heat exchangers designed specifically for water heating, which provides unmatched efficiency and performance. The evaporator is a tube-in-shell heat exchanger that is capable of operation over a wide range of temperatures, and is more rugged than other types of evaporators. The condenser uses a close approach tube-in-shell heat exchanger as well.

# Perfect Solution for industrial water heating

#### Suitable for

- Pharmacy Industry
- Sewage Treatment
- Gas boilers replacement
- · Desalination Plants
- Dairy Requirement Sterilization





Various Applications Higher ROI More Reliable Compact Design & Flexible installation

#### **Climatic Series Highlights**

- IEER > High COP: High heat transfer efficiency enables it to have high energy saving performance.
- Various Applications:
  Compatible with existing water chillers for hot water & cooling
  Compatible with existing cooling tower for factory process cooling & hot water
- **Higher ROI:** Low cost water heating and free air cooling, flexible installation and combination solution equals to high ROI in the long run.
- More Reliable: Durable and reliable; the unit can run stably all year around without being affected by ambient temperature.
- Compact Design & Flexible installation: The multi-connected heat exchanger design makes it compact, thus able to adjust to various installation locations.

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#### **Climatic Series Specifications**

- Compact water-to-water heat pump for indoor or outdoor installation.
- With suction gas cooled scroll compressor.
- With extensive tube-in-shell Heat Exchanger as tube evaporator and coaxial condenser.
- Refrigerant cycle with thermostatic expansion valve, filter, gas-liquid separator, high and low pressure switches.
- · With efficient automatic defrosting by hot gas principle.
- Electric and terminal box, with control and disturbance signaling.
- · Heating regulator for mounting to walls.
- Refrigerant as R134A.

#### **Water Connections**

- Water connections to be done on site.
- · Heating and condensation connections of flexible pipes with external thread.

#### **Condensation Connections**

- The water connections and the drain pipelines must be protected against frost on sites in freezing climates.
- It's always recommended and necessary to insulate the water pipes from W2W to water bodies when there is a long distance between them, to maintaining the heat.

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### **Atecpool Climatic Water Source Heat Pump Specification**







Specification			Model / Code		
			ATWSHP210	ATWSHP230	ATWSHP270
Heating Capacity* kW		kW	33.6	67.1	134.2
Cooling Capacity*		kW	25.5	50.9	101.9
Power Input*		kW	7.9	15.8	31.6
COP*		W	4.24	4.24	4.24
EER*		W	3.16	3.20	3.22
Heating Capacity**		kW	28.9	57.8	115.6
Cooling Capacity**		kW	18.9	37.8	75.6
Power Input**		kW	10.4	20.8	41.7
COP**		W	2.77	2.77	2.77
EER**		W	1.78	1.81	1.82
Max. Power Input		kW	15	25	46
Max. Running Current		A	25	45	90
Power Supply		V / Ph / Hz	380~415V/3N~/50Hz		
CompressorType			Copeland ZW150KBE-TFP-522 Scroll Compressor		
om	pressor Quantity		1	2	4
Evaporator	Туре		Tube in Shell Heat Exchanger		
	Water Flow	m³/h	5.0	10.0	20.0
	Water Pressure Drop	kPa	20.4	38.6	54.5
	Water Connection		DN32	DN80	DN80
Condenser	Туре		Tube in Shell Heat Exchanger		
	Water Flow	m³/h	4.6	9.1	18.2
	Pressure Drop	kPa	16.5	30.9	41.5
	Water Connection		DN32	DN80	DN80
Noise		dB(A)	65.0	68.0	69.0
Refrigerant				R134A	
Controller			Multi-function Controller		
Display			5 Inch Colorful Touch Display		
Max Outlet Water Temperature		°C	80		
Cabinet			Eco-friendly Galvanized Metal / Stainless Steel for option		
Net Weight		kg	202	441	866
Net Dimensions (L/W/H)		mm	1030 / 640 / 730	1172 / 900 / 1365	1600 / 1130 / 1500
Shipping dimensions (L/W/H)		mm	1130 / 710 / 910	1360 / 960 / 1520	1790 / 1210 / 1670

#### Note:

<sup>\*</sup>Testing Condition Evaporator Side inlet/outlet: 20/15°C; Condenser Side inlet/outlet: 45/55°C

<sup>\*\*</sup>Testing Condition Evaporator Side inlet/outlet: 20/15°C; Condenser Side inlet/outlet: 65/75°C