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Air source heat pump



The water temperature in nature varies with the environment, stable temperature is critical to the animal health, therefore temperature control is critical. Different animals have different requirements for water temperature, some need constant temperature of heating, while some need constant temperature of cooling. Laswim heat pump is a perfect, cost-effective and environmental-friendly solution that can maintain the water temperature constant by heating or cooling.

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Features:

- Premium materials and components of recognized brands, providing great stability and high efficiency.
- Dual coil titanium heat exchanger enlarges the heat exchanging surface, more efficient.
- Hydrophilic fin heat exchanger with superior performance, high efficiency and anti-corrosion.
- Advanced electric expansion valve automatically adjust the refrigerant flow rate, ensuring that the units operate with high efficiency in all weather conditions.
- Reliable scroll compressor with precise energy stage settings ensures to achieve the desired energy saving effect.
- Safety and environmental protection: The structure is completely separated from water and electricity, and there is no harmful or toxic gas discharged or burned.

- Easy to operate and maintain, adopts smart computer control system, one time setting, intelligent operation, control the water temperature and operation automatically and precisely.
- Multiple and careful protection to ensure safety and long life time.

User benefits:

- Save cost: Heat pumps are very energy efficient. A heat pump is able to move far more energy than it uses, at least 50% cheaper than gas or coal heating.
- Faster grow rate, higher reproduction rate and lower mortality rate because of the precise and optimum water temperature control.
- Heat pumps are proved to be safe and trouble-free, require minimal service to maintain the best performance.
- Eco-friendly: Produces zero harmful emissions or Co2, unlike gas and coal (better for the environment).
- Users can customize their heat pump according to actual application requirement.

Technical parameters:

Model		AP-SSPA-18	AP-SSPA-21	AP-SSPA-26	AP-SSPA-35	AP-SSPA-42	
Standard Heating Condition	Heating Capacity	kw	20.06	23.62	26.21	40.18	47.19
	COP	----	4.80	4.90	4.80	4.80	4.90
Low Temperature Heating Condition	Heating Capacity	kw	13.54	16.05	17.69	27.87	32.07
	COP	----	3.60	3.70	3.60	3.70	3.70
Cooling Condition	Cooling Capacity	kw	13.38	15.42	16.93	26.78	30.82
	EER	----	3.20	3.20	3.10	3.20	3.20
Power Supply	V/ph/Hz	380V/3N~/50Hz					
Rated Power Input	kw	4.18	4.82	5.46	8.37	9.63	
Rated current	A	7.47	8.62	9.76	14.96	17.21	
Maximum Power Input	kw	5.43	6.27	7.10	10.88	12.52	
Maximum Current	A	9.71	11.20	12.69	19.45	22.38	
Maximum Water Outlet Temperature	°C	40					
Applicable Ambient Temperature	°C	-5°C ~ 43°C					
Water Side Heat Exchanger	----	PVC+Titanium					
Maximum Pressure (Refrigerant Side)	MPa	2.8/3.8					
Refrigerant Type	----	R22/R407C/R410A					
Air Volume At 30pa	M³/h	6500	6500	6500	13000	13000	
Noise Level	dB(A)	≤65	≤65	≤67	≤68	≤68	
Water Inlet/outlet Size	mm	40	40	40	50	50	
Water Flow Rate	M³/h	5	6	7	10	12	
Water Side Pressure Drop	kPa	40	45	47	48	50	
Net Weight	Kg	110	120	150	280	320	
Dimensions	mm	745	745	745	1425	1425	
		745	745	745	745	745	
		1045	1045	1045	1045	1045	

AP-SSPA-52	AP-SSPA-70	AP-SSPA-85	AP-SSPA-100	AP-SSPA-140	AP-SSPA-180	AP-SSPA-210
52.37	80.46	93.69	104.16	157.44	189.36	234.24
4.80	4.90	4.90	4.80	4.80	4.80	4.80
35.35	54.68	63.67	70.31	106.27	127.82	158.11
3.60	3.70	3.70	3.60	3.60	3.60	3.60
33.82	52.54	59.27	69.44	104.96	126.24	156.16
3.10	3.20	3.10	3.20	3.20	3.20	3.20
380V/3N~/50Hz						
10.91	16.42	19.12	21.70	32.80	39.45	48.80
19.50	29.35	34.18	38.79	58.63	70.52	87.23
14.18	21.35	24.86	28.21	42.64	51.29	63.44
25.35	38.16	44.43	50.43	76.22	91.67	113.40
40						
-5°C ~ 43°C						
PVC+Titanium						
2.8/3.8						
R22/R407C/R410A						
13000	19500	19500	19500	60000	60000	60000
≤68	≤70	≤70	≤70	≤75	≤75	≤75
50	63	63	63	90	90	110
15	20	25	30	40	50	60
50	51	53	55	56	58	60
420	560	650	750	1140	1170	1250
1425	2250	2250	2250	3514	3514	3514
745	1035	1035	1035	1804	1804	1804
1045	1200	1200	1200	1350	1350	1350

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