



# Oasis DC inverter heat pump

(Heating, cooling, Domestic hot water)



Superior Temperature Control

[www.oasisheatpumps.com](http://www.oasisheatpumps.com)

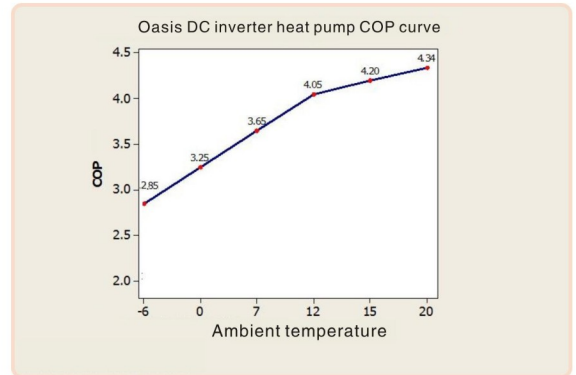
## Energy Saving up to 30%

- With the use of inverter compressors, brushless DC fan motors and PFC control method, the units can regulate the running capacity. With no frequent start-ups, the unit works in constant condition with high efficiency. The energy consumption is 30% less than that of a standard heat pump.



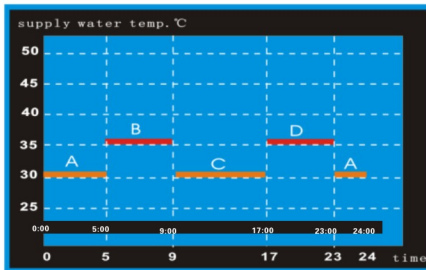
## COP Curve

- Coefficient of performance.



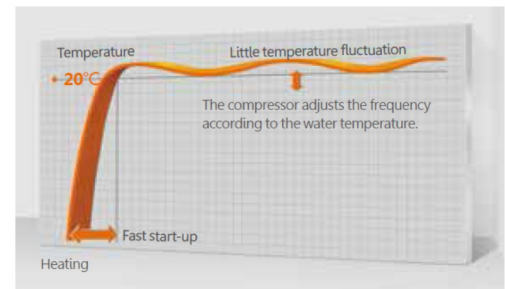
## Timing in Sections Function

- The heat pump units have Timing ON/OFF function and two sections can be set at the same time. For example, first section to be 8:00 unit ON, 10:00 unit OFF, and second section to be 17:00 unit ON, 23:00 unit OFF.



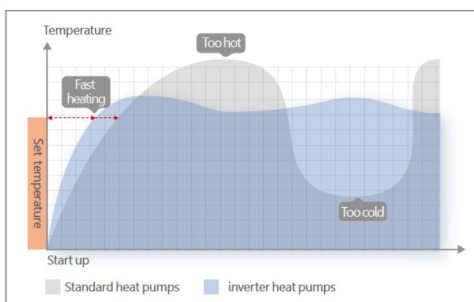
## 0.5 °C Precise Control

- The units can change the operating frequency of the compressors automatically according to the heating or cooling demand. When the target temperature is reached, the units run at a lower frequency, and the temperature control accuracy can be as precise as 0.5 °C.



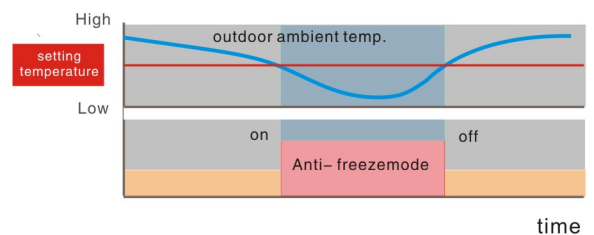
## Speed up Heating/Cooling Time

- When there is a large difference between the actual temperature and the programmed temperature, the unit can run at a higher frequency to make fast heating or cooling to increase or decrease the temperature rapidly.



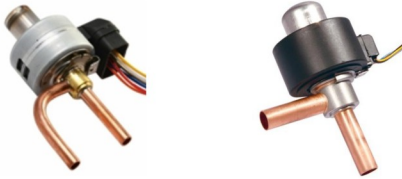
## Automatic Antifreeze Protection Technology under Standby Mode

- Unit designed with multi-grade antifreeze protection control function. When outdoor ambient temperature is lower than the setting function, the unit operates antifreeze protection function automatically and keeps the unit operating in low ambients.



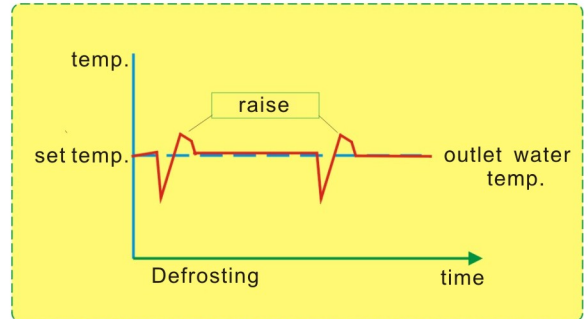
## Electronic Expansion Valve

- 500-step linear electronic expansion valve . Automatically adjusts the expansion valve opening according to the superheat. This ensures high efficiency in the coldest conditions.



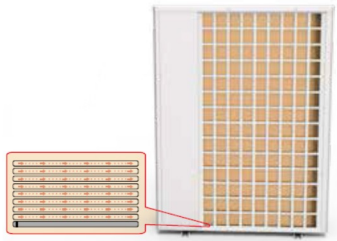
## Smart Defrosting

- The heat pump utilizes smart defrosting technology, reducing defrosting time and extends the heating time, allowing fast recover. This improves the heat pump heating efficiency and maintains water temperature.



## No Frosting in the Bottom

- With the use of the special liquid distribution technology, the temperature of refrigerant in the air exchanger's bottom copper tube will not decrease in order to ensure no icing at the bottom of the coil.



## Multi-Protection

- Oasis DC inverter heat pump has various protection control such as water flow switch protection, antifreezing protection, high/low pressure protection, compressor overload protection, high discharge temp protection, etc



## Application

- DC inverter can work for house heating, cooling, domestic hot water.



## Finned Heat Exchanger



Riled Copper Tube

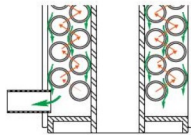
The finned heat exchanger uses riled copper tube which greatly improves the heating efficiency.



Louvered Fins

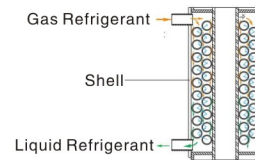
Louvered fins with greater airflow distribution effectively improves the heat exchanging efficiency.

## Tube-in-shell Heat Exchanger

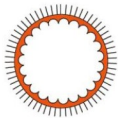


■ Refrigerant  
■ Cooling Water

Cooling water and refrigerant circuit is counter flow, which ensures the refrigerant outlet subcooling and improves the performance of the heat pump .



It constant flow to enhance efficiency.



Copper Tube  
Cross Section

Spiral copper coil enlarges the water heat exchanging area so that the water can sufficiently transfer heat.

**5.0 Mpa  
Pressure Test**

No Welding Point Inside  
the water coil



There is no welding inside the water coil which prevents any potential leaks.

## Monoblock DC inverter heat pump



### Model Parameters

Model			Oasis INV10.5	Oasis INV 14	Oasis INV 17.5
Air 15° C Water 41° C	Heating capacity <sup>①</sup>	KW	11.00	14.50	18.20
	Input power <sup>①</sup>	KW	3.11	4.16	5.2
	Input current <sup>①</sup>	A	14.10	18.90	23.6
	COP <sup>①</sup>		3.54	3.49	3.50
Air 6° C Water 41° C	Heating capacity <sup>②</sup>	KW	10.50	14.00	17.50
	Input power <sup>②</sup>	KW	3.11	4.14	5.18
	Input current <sup>②</sup>	A	14.12	18.83	23.53
	COP <sup>②</sup>		3.38	3.38	3.38
Air 0° C Water 41° C	Heating capacity <sup>③</sup>	KW	7.50	10.00	12.50
	Input power <sup>③</sup>	KW	2.48	3.31	4.14
	Input current <sup>③</sup>	A	12.42	16.56	20.70
	COP <sup>③</sup>		3.02	3.02	3.02
Air -6° C Water 41° C	Heating capacity <sup>④</sup>	KW	6.60	8.80	11.00
	Input power <sup>④</sup>	KW	2.47	3.30	4.12
	Input current <sup>④</sup>	A	12.36	16.48	20.60
	COP <sup>④</sup>		2.67	2.67	2.67
Power supply			240V		
Refrigerant			R410a		
Water pump			Wilco	Wilco	Wilco
Compressor			Rotary	Rotary	Rotary
Water inlet/outlet		inch	1"		
Unit Dimension		mm	1145*470*840	1145*470*940	1145*470*940

Notice:

1. Operating conditions : -7° C~43° C



RoHS



STANDARDS  
AUSTRALIA





Oasis Technologies Ltd  
Tel: +64 9 5358891  
Web: [www.oasisheatpumps.com](http://www.oasisheatpumps.com)