



Kozykoala

Renewables Ltd.



AIR TO WATER HEAT PUMP

Heating + Cooling + Hot Water 3 in 1

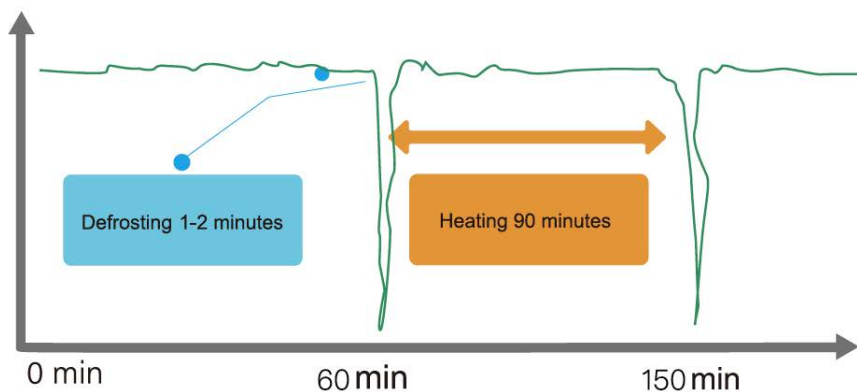


INTELLIGENT DEFROSTING

High efficiency whilst delivering energy

DC Inverter Air To Water Heat Pump						
Model		DCHP005RIP-E	DCHP009RIP-E	DCHP012RIP-E	DCHP014RIP-E	DCHP016RIP-E
Ambient temp. range		-35~45		-35~45		-35~45
Power supply		220-240V 1N~/50Hz		220-240V 1N~/50Hz		220-240V 1N~/50Hz
Refrigerant type		R32		R32		R32
ERP(35°C)		A+++		A+++		A+++
Brand		Panasonic		Panasonic		Panasonic
DHW heating capacity	Heating capacity	5		12		14
	Water flow	107.5		215		301
	Input power	1.17		2.31		3.20
	COP	/		4.26		4.37
	Operating current	A		5.3		10.4
Heating capacity A7w35	Heating capacity	5		9		12
	Input power	1.11		2.21		2.70
	COP	/		4.52		4.53
	Operating current	A		5.0		9.9
Heating capacity A7w45	Heating capacity	5		9		12
	Input power	1.42		2.72		3.27
	COP	/		3.53		3.68
	Operating current	A		6.3		12.2
cooling capacity A35W7	Cooling capacity	4.2		8.9		11.2
	Input power	1.33		2.83		3.58
	EER	/		3.15		3.13
	Operating current	A		6.0		12.7
Heating capacity /COP	A7W55	/		5/2.92		9/2.98
	A-7W35	/		4/3.23		8/3.25
	A-7W45	/		4/2.68		8/2.72
	A-7W55	/		4/2.23		8/2.25
	A-15W35	/		3.35/2.68		6.7/2.71
	A-15W45	/		3.35/2.24		6.7/2.28
	A-15W55	/		3.35/1.87		6.7/1.95
					12.0/2.94	
Throttling components		/		Electronic expansion valve		Electronic expansion valve
Fan type		/		Low noise axial fan		Low noise axial fan
Fan motor	Type	/		Brushless DC motor		Brushless DC motor
	Number	/		1		2
Water side heat exchanger		/		Plate heat exchanger		Plate heat exchanger
Temperature range of heating water outlet		°C		25~58		25~58
Temperature range of cooling water outlet		°C		5~25		5~25
Temperature range of domestic hot water		°C		40~55		40~55
Water port size		/		DN20		DN25
Water flow		m³/h		0.86		1.72
Expansion tank capacity		L		5		5
Noise		dB(A)		≤54		≤55
Unit dimension (WxDxH)		mm		1075*480*805		1390*610*1130
N.W.		kg		120		130

Remarks:
 1. Heating capacity conditions : (DB/WB) =20°C/15°C, inlet water temperature 15°C, outlet water temperature 55°C.
 2. Heating A7W35 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 30°C, outlet water temperature 35°C;
 3. Heating A7W45condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 40°C, outlet water temperature 45°C;
 4. Rated cooling condition: (DB/WB)=35°C, inlet water temperature 12°C, outlet water temperature 7°C;
 Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.



Smart Rapid Defrosting Technology+

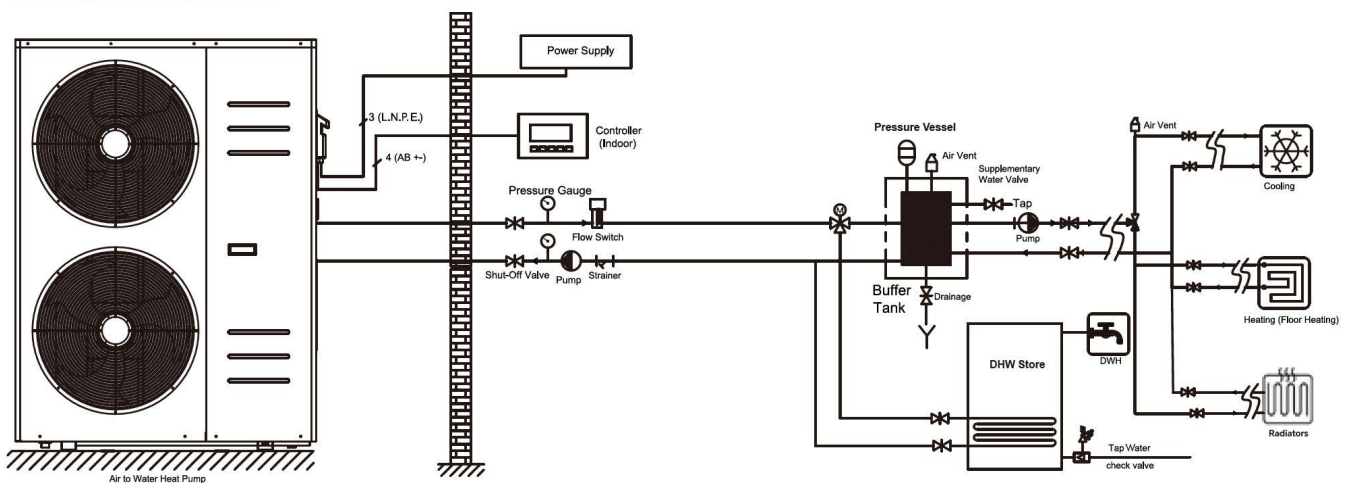
The efficient and quick defrosting technology activates within 2 minutes.
 Heating time activates within 90 minutes.

R32 REFRIGERANT

Energy Saving + Environmental Protection

R32 significantly contributes to environmental protection with its low Global Warming Potential (GWP) of 675, only 32% of R410A's. In the same heat pump system, R32's lower liquid density means it requires a smaller charge amount compared to R410A, resulting in higher economic efficiency. Moreover, R32 requires greater heat to evaporate than R410A, leading to a smaller required mass flow rate per unit and consequently a higher Coefficient of Performance (COP). This higher COP not only improves energy efficiency but also reduces operating costs. By choosing R32, we prioritize environmental sustainability and contribute to preserving the Earth's resources.

Hydraulic System Schematic Heating + Cooling + DHW





INTELLIGENT REMOTE CONTROL + WIFI

With online self-diagnosis capabilities

The KozyKoala air source units feature an independent intelligent remote control with online self-diagnosis capabilities, ensuring peace of mind and longer warranties of 7-10 years:

- ✓ Users can remotely access and adjust temperature and water level settings in the water tank, as well as view parameter curve records.
- ✓ Simultaneous control of water level and temperature is enabled.
- ✓ Remote management extends to pipeline circulation, return water, antifreeze, defrost, and other functions.
- ✓ Real-time monitoring of operational status, current, voltage, protection status, and working mode of the pump set is available remotely.
- ✓ Control mode of the water pump can be toggled remotely, allowing for remote, manual, or automatic start/stop control of the pump group.
- ✓ Early warnings and display of fault information are provided, supporting various monitoring, control, and alarm functions.
- ✓ The system also facilitates operation information storage and historical record queries for comprehensive system management.

AUTOMATIC DEFROST MODE

+ Anti-secondary long-ice technology

Utilizing outdoor temperature sensors and heat exchanger temperature sensors, the outdoor unit of KozyKoala employs variable-parameter defrosting, ensuring precise defrosting timing and mitigating issues like "defrosting when no frost is present" or "no defrosting when frost is present". This approach significantly reduces the rate of frost accumulation, achieving only 1/3 of that in typical defrost modes.

Furthermore, KozyKoala's exclusive anti-secondary long-ice technology guarantees frost absence at the bottom of the outdoor heat exchanger during winter heating. It ensures complete heating of any ice-water mixture along the fins to a liquid state during defrosting. Consequently, liquid is drained through the bottom drain hole, preventing frost buildup at the bottom of the unit and preserving optimal heating efficiency.

Stable Running Of Temperatures Down To -35°C

Stable Running at -35°C Ambient Temperature Under low ambient Temperature, the performance of normal heat pumps will be limited. First, the heating ability, the lower the ambient temperature, the weaker the heating ability. Second, reliability, low temperature environment will affect the stability of the machine and operation reliability.





CERTIFIED

Within the KozyKoala Renewables division, we offer comprehensive services under the Microgeneration Certification Scheme (MCS) umbrella. This scheme guarantees adherence to rigorous standards for energy efficiency and performance. Our expert team provides full design support for various configurations of air source units. These configurations include open loop systems, systems with buffers, volumisers, or low-loss headers. This ensures that our customers receive tailored solutions that meet their specific needs while complying with MCS standards for renewable energy systems.

The DCHP016RIP-E and DCHP009RIP-E heat pumps are certified by the Microgeneration Certification Scheme (MCS), ensuring their compliance with industry standards for energy efficiency and performance.

OUR UNITS

All KozyKoala air source units feature a modern anthracite color and come standard with anti-corrosion treatment applied to both the evaporator fins and the unit casing. This treatment ensures durability and longevity, making our units ideal for installations in coastal locations where exposure to salt air can be a concern.

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