



## Air to water heat pump Test Report

Report Number	141218031GZU-002
Test Laboratory Name / Address	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China
Manufacturing Name / Address	China palm Air conditioning & equipment Co., Ltd 2# Chuangye Road South, Songxia Industrial Area, Songgang, Nanhai,Foshan, Guangdong, P.R.China
Product	Air to water heat pump
Description	The product covered by this report is a air to water heat pump for space heating
Model(s) (if applicable)	AHP-9AC-410DC
Model Similarity	NA
Rated voltage (V)	230
Rated input frequency (Hz)	50
Rated cooling power (W)	1780
Rated heating power (W)	1500
Rated cooling capacity (kW)	8.14
Rated heating capacity (kW)	8.95
Date of receipt of sample(s)	December 21, 2014
Date of test	From 2014/12/22 to 2015/1/8
Test standard(s) or criteria(s)	EN 14511:2011+ EN 14825:2013
Date of issue	February 15, 2015

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## **Product Information**

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Model number of Unit Under Tested	AHP-9AC-410DC
Air-conditioner Type	Reverse Cycle
Power Supply	Single Phase
Refrigerant	R410A
Air Distribution	Non-ducted
Unit Mounting (applicable to non ducted indoor units	N/A (ie ducted or non split type system)
Heat Source (Heating Mode)	Air
Heat Sink (Cooling Mode)	Water-cooled
Does this air conditioner have a variable output	Yes
Type of compressor	Inverter
Maximum continuous frequency for cooling (applicable	40
to inverter driven compressor only) (Hz)	
Maximum continuous frequency for heating (applicable	80
to inverter driven compressor only) (Hz)	

## **Critical Components**

Name	Manufacturer/tradem	Type/model	Technical data
Compressor	GUANGDONG MEIZHI	DA150S1C-20FZ	220V/50HZ ,1150W
	COMPRESSOR CO.,LTD		
Fan	Foshan Nanhai Junfeng Motor Co.,Ltd	YDK-80-6B-2	220V/50Hz,80W
Capacitor of fan	Zhongshan Kovey Electric Co.ltd	CCB61	5uF/450V





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Information require	ments				Report No. 1	41210031	GZU-002	
Function (indicate i	f present)			If function includes season the informa should relate to on Include at least the	tion relates to the tent to the tent to the tent tent tent tent tent tent tent	o. Indicate ason at a	ed values time.	
cooling	Y			Average (mandatory)	Y			
heating	Y			Warmer (if designated)	N			
				Colder (if designated)	N			
Item	symbol	value	unit	Item	symbol	value	unit	
Design load				Seasonal efficiency		•	•	
cooling	Pdesignc	NA	kW	cooling	SEER	NA	—	
heating/Average	Pdesignh	5.654	kW	heating/Average	SCOP/A	4.162	<b>—</b>	
heating/Warmer	Pdesignh	NA	kW	heating/Warmer	SCOP/W	NA	—	
heating/Colder	Pdesignh	NA	kW	heating/Colder	SCOP/C	NA	<b>—</b>	
Declared capacity (*) for heating/Average season,			Declared coefficient	t of performa	nce (*)/Av	erage		
at indoor temperature 20°C and outdoor			season, at indoor temperature $20^{\circ}$ and outdoor					
temperature Tj				temperature Tj				
Tj = − 7 ℃	Pdh	4.614	kW	Tj = − 7 ℃	COPd	2.96	<b>–</b>	
Tj = 2 ℃	Pdh	5.185	kW	Tj = 2 ℃	COPd	4.01	<b>–</b>	
Ti = 7 ℃	Pdh	6.035	kW	Ti = 7 ℃	COPd	5.45	-	
Tj = 12 ℃	Pdh	6.083	kW	Tj = 12 ℃	COPd	6.43	-	
Tj = bivalent	Pdh	4.784	kW	Tj = bivalent	COPd	3.05	_	
temperature	Dalla	4.440		temperature		0.05		
Tj = operating limit		4.116	kW	Tj = operating limit	COPd	2.65	—	
Bivalent temperatu		C	<b>∞</b>	Operating limit temperature				
heating/Average	Tbiv Tbiv	-6 NA	ว ว	heating/Average	Tol Tol	-10	ร ร	
heating/Warmer	Tbiv		с c	heating/Warmer		NA	C C	
heating/Colder	-	NA doc. othou		heating/Colder	Tol	NA	U	
Electric power input in power modes other than 'active mode'			Annual electricity consumption					
off mode	POFF	NA	kW	cooling	QCE	NA	kWh/a	
standby mode	PSB	NA	kW	heating/Average	QHE	1902	kWh/a	
thermostat-off mode	PTO	0.006	kW	heating/Warmer	QHE	NA	kWh/a	
crankcase heater mode	PCK	NA	kW	heating/Colder	QHE	NA	kWh/a	
	dicate one of	three opt	ione)	Other items			1	
Capacity control (indicate one of three options) fixed N			Sound power level (indoor/outdoor)	LWA	NA	dB(A)		
staged	N			Global warming potential	GWP	NA	kgCO2 eq.	
variable	Y			Rated air flow (indoor/outdoor)	_	NA	m3/h	