



## Air to water heat pump Test Report

Report Number 141218031GZU-002

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)

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

8.95

Date of issue February 15, 2015

Prepared by: Approved by:

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## **Product Information**

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** 

Critical Components								
Name	Manufacturer/tradem	Type/model	Technical data					
Compressor	GUANGDONG MEIZHI COMPRESSOR CO.,LTD	DA150S1C-20FZ	220V/50HZ ,1150W					
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 requirements

nents							
Function (indicate if present)			If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.				
Y			Average (mandatory)	Υ			
Υ			Warmer (if designated)	N			
				N			
symbol	value	unit			value	unit	
			Seasonal efficiency				
Pdesignc	NA	kW	cooling	SEER	NA	_	
Pdesignh	5.654	kW	heating/Average	SCOP/A	4.162	_	
Pdesignh	NA	kW	heating/Warmer	SCOP/W	NA	_	
Pdesignh	NA	kW	heating/Colder	SCOP/C	NA		
) for heating/	Average	season,	Declared coefficient of performance (*)/Average				
			· ·				
Pdh	4.614	kW	Tj = -7 ℃	COPd	2.96	_	
Pdh					4.01	_	
Pdh	4.784	kW	Tj = bivalent	COPd	3.05	_	
Pdh	4.116	kW		COPd	2.65	_	
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	-6	$\mathbb{C}$		1	-10	$\mathcal{C}$	
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heating/Colder Tbiv NA C Electric power input in power modes other than 'active mode'			Annual electricity consumption				
POFF	NA	kW	cooling	QCE	NA	kWh/a	
PSB	NA	kW	heating/Average	QHE	1902	kWh/a	
РТО	0.006	kW	heating/Warmer	QHE	NA	kWh/a	
PCK	NA	kW	heating/Colder	QHE	NA	kWh/a	
mode Capacity control (indicate one of three options)			Other items				
N			Sound power level (indoor/outdoor)	LWA	NA	dB(A)	
N			Global warming potential	GWP	NA	kgCO2 eq.	
Υ			Rated air flow (indoor/outdoor)	_	NA	m3/h	
	present)  Y  Y  Symbol  Pdesignc Pdesignh Pdesignh Pdesignh Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pd	y  Symbol value  Pdesignc NA Pdesignh 5.654 Pdesignh NA Pdesignh NA Pdesignh NA Polesignh NA Pol	y  Symbol value unit  Pdesignc NA kW Pdesignh 5.654 kW Pdesignh NA kW Pdesignh NA kW Pdesignh NA kW for heating/Average season, re 20°C and outdoor  Pdh 4.614 kW Pdh 5.185 kW Pdh 6.035 kW Pdh 6.035 kW Pdh 4.784 kW Pdh 4.116 kW  e  Tbiv -6 °C Tbiv NA °C	If function includes season the informate should relate to on Include at least the	If function includes heating: Indic season the information relates to should relate to one heating season the information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The information relates to should relate to one heating season. The heating/Auerage and information relates to should relate the heating season. The heating/Colder and information relates to should relate the heating season. The heating/Colder and information relates to should relate the heating season. The heating/Colder and information relates to symbol season. The heating/Colder and information relates to symbol season. The heating/Auerage and information relates to symbol symbol symbol symbol symbol symbol symbol symbol season. The heating/Auerage and information relates to symbol symb	If function includes heating: Indicate the h season the information relates to. Indicate should relate to one heating season at a Include at least the heating season at a Include at least the heating season 'Average (mandatory)  Y  Average (mandatory)  Y  Warmer (if designated)  Seasonal efficiency  Pdesignc NA kW cooling SEER NA Pdesignh NA kW heating/Average SCOP/A 4.162 Pdesignh NA kW heating/Average SCOP/C NA Pdesignh NA kW heating/Colder SCOP/C NA Pdesignh NA kW heating/Colder SCOP/C NA Por the ating/Average season, at indoor temperature 20°C and or temperature Tj  Pdh 4.614 kW Tj = -7 °C COPd 2.96 Pdh 5.185 kW Tj = 2 °C COPd 4.01 Pdh 6.035 kW Tj = 12 °C COPd 5.45 Pdh 6.083 kW Tj = 12 °C COPd 6.43 Pdh 4.784 kW Tj = bivalent temperature  Departing limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit COPd 2.65 Pdh 4.116 kW Tj = operating limit Poperature Poperating limit temperature Poperating limit temperatur	