

Test Report No.:	NTRE2017001	5	Page	e 1 of 41
Applicant Name:	me: Gree Electric Appliances Inc. of Zhuhai West Jinji Road, Qianshan, Zhuhai, Guangdong 519070, P.R.China			.China
Test item:	Split Air Conditioner			
Identification:	GWH12AAB-K6DN**/	٩	Serial No.:	Engineering
	(**represent design co front panel;first*=A-Z,	ode of different second*=1-9)		sample
Receipt No.:	RZ00334396		Date of receipt:	2016.11.30
Testing location:	<b>Gree Electric Applia</b> West Jinji Road, Qian	<b>nces Inc. of Zhuha</b> shan, Zhuhai, Gua	<b>ai</b> ngdong 519070, P.R	.China
Test specification:	NO 206/2012			
	NO 626/2011			
	EN 14825:2013			
	EN 14511-1,2,3,4:201	13		
Test Result:	Test Result: The test items passed the test specification(s).			
Testing Laboratory:	Testing Center of Gre	e Electric Appliance	es Inc. of Zhuhai	
tested by:		reviewed by:		
Date Name/	Position Signature	Date	Name/Position	Signature
Other Aspects:          Abbreviations:       P(ass) = passed				
F(ail)   N/A = N/T =	= failed not applicable :not tested			
This test report relates to not permitted to be duplic this or similar products.	the a.m. test sample. ated in extracts. This t	Without permissio est report does no	n of the test center ot entitle to carry a	r this test report is ny safety mark on



#### Summary of testing

1. The appliance was tested according to EN 14511.

2. The SEER and SCOP were calculated according to EN14825.

3. All the models are indeticial with each other except the panels.All the tests were performed n the model GWH12AAB-K6DNA3A as representive.

4. The samples are engineering samples without serial numbers.

Test item particulars	
Class of temperature	T1
Туре:	Split Air Conditioner
Degree of protection	Indoor unit:IP20 Outdoor unit:IPX4
Supply Connection	Type Y attachment
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P(Pass)
- test object does not meet the requirement::	F(Fail)
Testing	
Date of receipt of test item:	2016.11.30
Date (s) of performance of tests:	2016.12.03-2016.12.20

#### **General remarks**

>This appliance is split type air conditioner, which consist of one outdoor unit and one indoor unit.

>The indoor unit is a wall mounted type air conditioner, which is usually not accessible (only for maintenance purpose). It will be mounted 2,5 meters above the floor.

Cooling and heating modes are applied by reverse cycle method. In the heating mode, defrost operation may be applied.

>The indoor unit is equipped with an infrared wireless battery powered remote control unit.

#### Critical components:

Model	Compressor model	Indoor fan motor	Outdoor fan motor
GWH12AAB-K6DN**A	QXF-B096zE190A	FN20J-PG	FW30J-ZL







	NO 626/2011 &EN 14511 and NO 206/2012	& EN 14825: 2013
Clause	Requirement - Test	Result - Remark

Verdict

	EN 14511-1:2013		
1	Scope		Р
	This standard applies to : □factory-made units that can be ducted, □factory-made liquid chilling packages with integra condensers or for use with remote condensers, □factory made units of either fixed experits or	1	Р
	<ul> <li>actory-made units of either fixed capacity of variable capacity by any means, and</li> <li>air-to-air air conditioners which can also evaporate the condensate on the condenser side.</li> <li>—Packaged units, single split and multisplit systems</li> <li>—Single duct and double duct units</li> </ul>		
	This standard does not apply to : —Installations used for heating and/or cooling of industrial processes —The units having their condenser cooled by air and by the evaporation of external additional wate (see EN15218)	r	Р
	In the case of units consisting of several parts, this European Standard applies only to those designed and supplied as a complete package, except for liquid chilling packages with remote condenser.		P
	Part load testing of units is dealt with in EN 14825.	According to EN 14825:2013; see appendix table	Р
3	Denomination		Р
	Heat transfer medium and Classification	Air for both outdoor and indoor exchanger; Air heat pump and air cooled air conditioner	P
	EN 14511-2:2013		
4	Test condition		Р
4.1	Environment condition and electrical power supply	reqirements	Р
	Environment condition	table 1 or table 2	Р
	Electrical power supply	220-240V ~ 50Hz	Р
4.2	Rating condition		Р
	Standard Rating Condition for heating mode		Р
	Indoor heat exchanger;outdoor heat exchanger (°C)	Indoor: 20/-(DB/WB) Outdoor: 7/6(DB/WB)	Р
	Standard Rating Condition for cooling mode		P
	Indoor heat exchanger;outdoor heat exchanger (°C)	Indoor:27/19(DB/WB) Outdoor:35/24(DB/WB)	P



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	Application rating Condition for heating mode		Ν/Δ
	(°C)		N/A
	Application rating Condition for cooling mode		N/A
	Indoor heat exchanger;outdoor heat exchanger (°C)		N/A
	EN 14511-3:2013		
4.1	Basic principles		Р
4.1.1	Heating capcacity	See appended table	Р
	Heating capcacity determined by measurements on a calorimeter room or by the air enthalpy method		Р
	The heating capacity of air-to-water, water-to-water heat pumps and liquid chilling packages by the directed method	Air-to-air heat pump	N/A
	The heating capcacity should be corrected for the heating	at from the fan or pump;	N/A
	The fan or pump at the indoor heat eachanger is an intergral part of the unit	The power of the fan is included into the total power input.	N/A
	The fan or pump at the indoor heat eachanger is not an intergral part of the unit	The fan at the indoor unit is an intergral part of the unit.	N/A
4.1.2	Cooling capacity		Р
	Cooling capcacity determined by measurements on a calorimeter room or by the air enthalpy method		Р
	The cooling capacity of air-to-water, water-to-water heat pumps and liquid chilling packages by the directed method		N/A
	The cooling capcacity should be corrected for the hea	at from the fan or pump;	Р
	The fan or pump at the indoor heat eachanger is an intergral part of the unit	The power of the fan is included into the total power input.	Р
	The fan or pump at the indoor heat eachanger is not an intergral part of the unit	The fan at the indoor unit is an intergral part of the unit.	N/A
4.1.3	Heating recovery capacity	No heating recovery	N/A
	The heat recovery capacity of air-to-water, water-to- water heat pumps and liquid chilling packages by the directed method		N/A
	The heat recovery exchanger is an intergral part of the unit, the power calculated according to 4.1.6.3 shall be subtracted from heat recovery capacity.		N/A

Report NO.: *NTRE20160295* Page 6 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	The heat recovery exchanger is not an intergral part of the unit,the power calculated according to 4.1.6.4 shall be subtracted from heat recovery capacity.		N/A
4.1.4	Power input of fans for units without duct connection	The fan motor absorbed power was included into the effective power absorbed by the unit	Р
4.1.5	Power input of fans for units with duct connection	With no duct connection	N/A
	Fan is the intergral part of unit		N/A
	Fan is not the intergral part of unit		N/A
4.1.6	Power input of liquid pumps	No liquid pumps	N/A
4.1.7	Units for use with remote condenser	No remote condenser	N/A
4.2	Test apparatus		Р
4.2.1	Arrangement of the test apparatus		Р
4.2.1.1	Gernaral requirement		Р
	The test apparatus shall be designed in such a way that all requirements on adjustment of set values, stability criteria and uncertainties of measurement according to this European Standard can be fulfilled.		Р
4.2.1.2	Test room for the air side		Р
	The size of the test room shall be selected so that any resistance to air flow at the air inlet and air outlet of the tested unit is avoided.		Р
	Any direct heat radiation by heating units in the test room onto the unit or the temperature measuring point shall be avoided.		
	The velocity of the air flows through the room at the air inlet and air outlet do not exceed 1,5 m/s when the test object is switched off;		
	The air inlet or air outlet orifices be not less than 1 m distant from the surfaces of the test room		
4.2.1.3	Appliance with duct connection	No duct connection	N/A
	Ducted air systems shall be sufficiently air tight to ensure that the measured results are not significantly influently by exchange of air with the surroundings.		N/A
4.2.1.4	Appliance with integral pumps	No pumps	N/A
	For appliance with integral and adjustable water or brine pumps, the external static pressure will be set at the same time as the temperature difference.		N/A
	When the liquid pump has one or several fixed speeds, the speed of the pump shall be set in order to provide the minimum external static pressure.		N/A



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	In case of variable speed liquid pump, the manufacturer shall provide information to set the pump in order to reach a maximal external static pressure of 10 kPa.		N/A
4.2.1.5	Liquid chilling package for use with remote condenser	No liquid chilling package	N/A
	Units for use with remote condenser are tested by using a water-cooled condenser, the characterstics of which shall enable the intended operationg conditions to be achieved.		N/A
4.2.2	Installation and connection of the test object		Р
4.2.2.1	General		Р
	The test object shall be installed and connected for the test as recommended by the manufacture in his installation and operational manual. The accessories (for example heating element) provided by option are not included in the test.	Intalled and connected according to installation manual.	Ρ
	If a back-up heater is provided in option or not, it shall be switched off or disconnected to be excluded from the testing.	No electri-heater	
	For single duct units, the discharge duct shall be as short and straight as possibme but not less than 50cm to the wall,	Split type unit without duct	N/A
	For double duct units: the reqirements apply to both syuction and discharge ducts, unless the appliance is designed to be installed directly on wall.	Without duct	N/A
	For multisplit systems, the test shall be performed eith the sustem operatering at a capacity ratio of 1, or as close as possible.	Single split system	N/A
	Set the highest room temperature on the unit/system control device in heating mode.	30	Р
	Set the lowest room temperature on the unit/system control device in cooling mode.	16	Р
	If in the instructions, the manufacturer indicates a value for the temperature set on the control device for a given rating condition, then this value shall be used.		N/A
	For unit with open-type compressor the electric motor shall be supplied or sepecified by the manufacturer. The compressor shall be operated at the rotational speed specified by the manufacturer.	Not opentype compressor	N/A
	For inverter type control units, if the manufacturer gives instruction for the setting of the frequency for each rating condition, this seting shall be done.	No instruction	N/A
4.2.2.2	Installation of unit consisting of several parts		Р



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	a) The refrigerant lines shall be installed in accordance with the manufacturer instructions with a minimum length of 5m and a greater leangth to a maximum of 7,5m if the constaints of the test installation does not possible.	5m, specified by the manufacturer	Р
	b) The line shall be installed so that the difference in elevation does not exceed 2,5m.		Р
	c) The thermal insulation of the lines shall be applied accordance with the manufacturer's instruction.		Р
	d) At least half of the connecting linges shall be exposed outside conditions, with the rest of the lines exposed to the inside conditions.		Р
4.2.2.3	Indoor units of multisplit system	Single split system	N/A
	When testing a multisplit system in a calorimeter room, the air flow rate and the external static pressure shall be adjusted separately for each one of the ducted indoor units.		N/A
	When testing a multisplit system using the air enthalpy method, the air flow rate and the external static pressure shall be adjusted separately for each indoor unit, ducted or not.		N/A
	In case of equipment with non ducted indoor units tested using the air enthalpy method, the above requirement on ducted indoor units shall apply.		N/A
4.2.2.4	Measurements point		Р
	Temperature and pressure measuring points shall be arranged in order to obtain mean significant values.		Р
	For free air intake temperature measurements, it is required:		Р
	-either to have at least one sensor per square meter, with not less than four measuring points and by restricting to 20 the number of sensors equally distributed on the free air surface;		Р
	-or to use a sampling device. It shall be completed by four sensors for checking uniformity if the surface area is greater than 1 m <sup>2</sup> .		N/A
	For control cabinet air conditioner, the inlet temperature at the evaporator is measured instead of the temperature inside the control cabinet.		N/A
	For units consisting of a heat pump and a storage tank as a factory made unit, water inlet and outlet temperature measurements shall be taken at the inlet and outlet of this unit.		N/A
	For water and brine, the density in formulae (1), (2) and (3) shall be determined in the temperature conditions measured near the volume flow measuring device.		N/A

Report NO.: *NTRE20160295* Page 9 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
43	Uncertainties of measurement		Р
4.0	The uncertainties of measurement shall not exceed the values specified in table 1.		P
	<ul> <li>dry bulb temperature</li> <li>wet bulb temperature</li> <li>volume flow</li> <li>static pressure difference</li> <li>electric power</li> <li>voltage</li> <li>current</li> <li>electrical energy</li> </ul>	$\pm 0,2 K$ $\pm 0,4K$ $\pm 5 \%$ $\pm 5 Pa (∠p ≤ 100 Pa) or ±$ 5 %(∠p > 100 Pa) $\pm 1 \%$ $\pm 0,5 \%$ $\pm 0,5 \%$ $\pm 1 \%$	
4.4	Test procedure		Р
4.4.1	General		Р
4.4.1.1	All units		Р
	The test condition are given in EN14511-2		Р
	If liquid heat transfer media other than water are used, the specified heat capacity and density of such heat transfer media shall be determined and taken into consideration in the evaluation.		N/A
	Table 4 states permissible deviations of the measured values from the test conditions.	Mean: Tem±0.3K AF±5% Indiv: Tem±1K AF±10% SP+10%	P
4.4.1.2	Non ducted units		Р
	For non ducted units, the adjustable settings such as louvers and fan speed shall be set for maximum air flow.		Р
	For inverter type control units, if the manufacturer indicates a speed of the fan different from the maximum one to set on the control device for a given rating condition, then this speed shall be used.		Р
4.4.1.3	Units ducted on the indoor heat exchanger		N/A
	The volume flow and pressure difference shall be related to srandard air and with dry evaporator.		N/A
	The air flow rate given by the manufacturer shall be converted into standard air conditions. The air flow rate setting shall be made when the fan only is operating, at standard air conditions.		N/A
	The rated air flow rate given by the manufacturer shall be set and resulting external static pressure measured.		N/A

Report NO.: *NTRE20160295* Page 10 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	If the ESP is lower than the minimum value given in Table 2 (or Table 3), the air flow rate is decreased to reach this minimum value. If the ESP is greater than twice the minimum value		N/A N/A
	increased to reach twice this minimum value.		NI/A
	in Table 2 (or Table 3) but not greater than twice this minimum value, then keep this ESP.		N/A
4.4.1.4	Units ducted on the outdoor heat exchanger		N/A
	The volume flow and the pressure difference shall be related to standard air and with dry heat exchanger.		N/A
	The air flow rate given by the manufacturer shall be converted into standard air conditions. The air flow rate setting shall be made when the fan only is operating.		N/A
	The rated air flow rate given by the manufacturer shall be set and the resulting external static pressure (ESP) measured.		N/A
	If the ESP is lower than 30 Pa, the air flow rate is decrease to reach this minimum value.		N/A
	If the manufacturer's installation instructions state that the maximum allowable discharge duct length is less than 1m, then the unit can be considered as a free delivery unit and be tested as a non ducted outdoor unit with an ESP of 0 Pa.		N/A
4.4.2	Output measurement for water (brine)-to-water (brine) and water (brine)-to-air units	Air-to-air	N/A
4.4.2.1	Steady state conditions		N/A
	This condition is considered obtained and maintained when all the measured quantities remain constant without having to alter the set values, for a minimum duratuion of 1h, with respect to the tolerances given in table 4. Periodic fluctuations of measured quantities caused by the operation of the regulation and control devices are permissible, on condition the mean value of such fluctuations does not exceed the permissible deviations listed in table 4.	Mean: Tem±0.3K AFW±5% Indiv: Tem±1K AFW±10% SP±10%	N/A
4.4.2.2	Measurement of heating capacity, cooling capacity and heat recovery capacity		N/A
	For the output measurement it is necessary to record all the meaningful data continuously. In the case of recording instruments which operate on a cyclic basis, the sequence shall be adjusted such that a complete recording is effected at least once every 30s.		N/A

Report NO.: NTRE20160295 Page 11 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	The output shall be measured in the steady state condition. The duration of measurement shall be not less than 35min.		N/A
4.4.3	Output measurement for cooling capacity of air-to- water and air-to-air units	Air-to-air unit	Р
4.4.3.1	Steady state conditions		Р
	This condition is considered obtained and maintained:		Р
	When all the measured quantities remain constant without having to alter the set values		Р
	For a minimum duration of 1 h, with respect to the tolerances given in Table 4.		Р
	Periodic fluctuations of measured quantities caused by the operation of regulation and control devices are permissible, on condition the mean value of such fluctuations does not exceed the permissible deviations listed in table 4.	No period	N/A
4.4.3.2	Measurement of cooling capacity		Р
	Record all the meaningful data continuously		Р
	At least once every 30s in case of recording instruments operate on a cyclic basis.		Р
	Measured in the steady state condition		Р
	Not less than 35min duration		Р
4.4.4	Output measurement for heating capacity of air- to-air units with the air enthalpy method and of air-to-water units		Р
4.4.4.1	General		Р
	The test procedure consists of three periods: a preconditioning period, an equilibrium period, and data collection period. The duration of the data collection differs depending upon whether the heat pump's operation is steady state or transient.		Ρ
	Annex C gives a flow chart of the procedure and pictorially represents most of the different test sequences that are possible when conducting a heating capacity test.		Р
4.4.4.2	Preconditioning period		Р
	The test room reconditioning apparatus and the heat pump under test shall be operated until the test tolerances specified in Table 4 are attained for at least 10 min.		Р

Report NO.: NTRE20160295 Page 12 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	A defrost cycle may end a preconditioning period.If a defrost cycle does end a preconditioning period,the heat pump shall operate in the heating mode for at least 10 mm after defrost termination prior to beginning the equilibrium period.	No defrost cycle happened.	N/A
	It is recommended that the preconditioning period end with an automatic or manually-induced defrost cycle when testing at application rating conditions for outdoor air stated in Table 3 and Table 9 of EN14511-2:2013.		N/A
4.4.4.3	Equilibrium period		Р
	The equilibrium period immediately follows the preconditioning period or the defrost cycle and a recovery period of 10 min that ends a preconditioning period.		Р
	A complete equilibrium period is one hour in duration.		Р
	Except as specified in 4.4.4.7, the heat pump shall operate while meeting the test tolerances specified in Table 4.		Р
4.4.4.4	Data collection period		Р
	The data collection period immediately follows the equilibrium period.		Р
	Data shall be sampled at equal intervals that span every 30s or less, accepted during defrost cycles as specified below.		Р
	During defrost cycles, plus the first 10 min following defrost termination, data used in evaluating the integrated heating capacity and the integrated power inpu of the heat pump shall be sampled more frequently, at equal intervals that span every 10s or less.	No defrost cycle happened.	N/A
	For heat pumps that automatically cycle off the indoor fan during a defrost, the contribution of the net heating delivered and/or the change in indoor- side dry bulb temperature shall be assigned the value of zero when the indoor fan is off, if using the indoor air enthalpy method. If using the calorimeter test method, the integration of capacity shall continue while the indoor fan is off,	No defrost cycle happened.	N/A
	The difference between the leaving and entering temperatures of the heat transfer medium at the indoor heat exchanger shall be measured.		Р
4.4.4.5	Test procedure:When a defrost cycle ends the preconditioning period	No defrost cycle happened during the heating capacity test.	N/A

Report NO.: NTRE20160295 Page 13 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	If the quantity % AT exceeds 2.5% during the first 35min of the data collection period, the heating capacity teat shall be designated a transient test.		N/A
	If the heat pump initiates a defrost cycle during the equilibrium period or during the first 35min of the data collection period,the heating capacity test shall be designated a transient test.		N/A
	If the above conditions do not occur and the test tolerances specified in Table 2 are satisfied during both the equilibrium period and the first 35 min of the data collection period, then the heat capacity test shall be designated a steady-state test. Steady-state tests shall be terminated after 35min of data collection.		N/A
4.4.4.6	Test procedure:When a defrost cycle does not end the preconditioning period.	No defrost cycle happened during heat capacity test.	N/A
4.4.4.6.1	If the heat pump initiates a defrost cycle during the equilibrium period or during the first 35mm of the data collection period,the heating capacity test shall be restarted as specified.		N/A
4.4.4.6.2	If the quantity %AT exceeds 2.5% any time during the first 35min of the data collection period,then the heating capacity test procedure shall be restarted as specified in 4.4.4.6.3		N/A
	Prior to the restart, defrost cycle shall occur, This defrost cycle may be manually initiated or delayed until the heat pump initiates an automatic defrost.		N/A
4.4.4.6.3	If either 4.4.4.6.1 or 4.4.4.6.2 apply, then the restart shall begin 10min after the defrost cycle terminates with a nes equilibrium period of one hour.		N/A
	This second attempt shall follow the requirements of 4.4.4.3 and 4.4.4.4 and the test procedure of 4.4.4.5.		N/A
4.4.4.6.4	If the conditions specified in 4.4.4.6.1 or 4.4.4.6.2 do not occur and the test tolerances specified in Table 4 are satisfied during both the equilibrium period and the first 35min of the data collection period, then the heat capacity test shall be designated a steady- state test.Steady-state tests shall be terminated after 35min of data collection.		N/A
4.4.4.7	Test procedure for transient tests		N/A
	When, in accordance with 4.4.4.5 a heating capacity test is designated a transient test, the following adjustments shall apply.		N/A

Report NO.: NTRE20160295 Page 14 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	To constitute a valid transient heating capacity tests, the test tolerances specified in Table 5 shall be achieved during both the equilibrium period and the data collection period.		N/A
	The test tolerance parameters in Table 5 shall be determined throughout the equilibrium and data collection periods.All data collected during each interval,H or D,shall be used to evaluate compliance with the Table 5 test tolerances.		N/A
	The data collection period shall be extended until 3 h have elapsed or until the heat pump completes three complete cycles during the period, whichever coours first.		N/A
	Applies when the heat pump is in the heating mode, except for the first 10mm after termination of a defrost cycle.		N/A
	Applies during a defrost cycle and during the first 10 mm after the termination of a defrost cycle when the heat pump is operating in the heating mode.		N/A
	For a multiple refrigerant circuit units, the data collection period is 3 h whatever the state of cycling of the different refrigerant circuits.		N/A
4.4.5	Output measurement for heating capacity of air-to- air units with the calorimeter room		N/A
4.4.5.1	General		N/A
	The test procedure consists of two periods: an equilibrium period, and a data collection period. The duration of the data collection differs depending upon whether the heat pump's operation is steady state or transient.		N/A
4.4.5.2	Equilibrium period		N/A
	The test room reconditioning apparatus and the heat pump under test shall be operated until the test tolerances specified in Table 4 are attained for at least 1 h, except if a defrost occurs during this period in which case the test tolerances specified in Table 5 apply.		N/A
	If a defrost occurs during the equilibrium period, then the test procedure described in 4.4.5.5 applies.		N/A
4.4.5.3	Data collection period		N/A
	Data shall be sampled at equal intervals that span every 30 s or less, except during defrost cycles as specified below. The duration of measurement shall be not less than 70 min.		N/A
4.4.5.4	General Test Procedure		N/A

Report NO.: NTRE20160295 Page 15 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	If a defrost occurs before the start of the data collection period, or if the quantity % △ T exceeds 2,5 % during the data collection period, the heating capacity test shall be designated a transient test (see 4.4.5.5). Likewise,if the heat pump initiates a defrost cycle during the equilibrium period or during the data collection period, the heating capacity test shall be designated a transient test.		N/A
	If the above conditions do not occur and the test tolerances specified in Table 4 are satisfied during both the equilibrium period and the data collection period, then the heat capacity test shall be designated a steadystate test. Steady-state tests shall be terminated after at least 70 minutes of data collection.		N/A
4.4.5.5	Test procedure for transient tests		N/A
	When, in accordance with 4.4.5.4, a heating capacity test is designated a transient test, the following adjustments shall apply.		N/A
	To constitute a valid transient heating capacity tests, the test tolerances specified in Table 5 shall be achieved during both the equilibrium period and the data collection period. As noted in Table 5, the test tolerances are specified for two sub-intervals. Interval H consists of data collected during each heating interval, with the exception of the first 10 min after defrost termination. Interval D consists of data collected during each defrost cycle plus the first 10 min of the subsequent heating interval.		N/A
	All data collected during each interval, H or D shall be used to evaluate compliance with the Table 5. Data from two or more H intervals or two or more D intervals shall not be combined and then used in evaluating Table 5 compliance. Compliance is based on evaluating data from each interval separately.		N/A
	The data collection period shall be extended until 3 hours at least have elapsed and until a full number of complete cycles have elapsed, except if the medium time interval for a full cycle is greater than 2h, in which case the data collection period shall be of one full cycle only or 4h, whichever is the shortest. A complete cycle consists of a heating period and a defrost period; from defrost termination to defrost termination.		N/A
	For a multiple refrigerant circuit units, the data collection period is 3 h whatever the state of cycling of the different refrigerant circuits		N/A



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	During defrost cycles, plus the first 10 min following defrost termination, data used in evaluating the integrated heating capacity and the integrated power input of the heat pump shall be sampled more frequently, at equal intervals that span every 10 s or less. When using the calorimeter room method, these more frequently sampled data include all measurements required to determine the indoor-side capacity.		N/A
	For heat pumps that automatically turn off the indoor fan during a defrost cycle, the integration of capacity shall continue while the indoor fan is off.		N/A
4.5	Test results		Р
4.5.1	Data to be recorded		Р
	Data to be recorded for the capacity tests are given in table 6, and these data shall be the mean values taken over the period.		Р
4.5.2	Cooling capacity and heat recovery capacity calculation.		Р
	The cooling capacity and heat recovery capacities shall be determined from the set of cooling and heat recovery capacities recorded over the data collection period.		Р
4.5.3	Heating capacity calculation		Р
4.5.3.1	Steady state capacity test		Р
	An average capacity shall be determined from the set of heating capacities recorded over the 35min data collection period.		Р
4.5.3.2	Transient capacity test		N/A
	For equipment where one or more complete cycle occurs during the data collection period, the following shall apply.		N/A
	The average heating capacity shall be determined using the integrated capacity and the elapsed time corresponding to the total number of complete cycles that occurred over the data collection period.		N/A
	For equipment where no complete cycle occurs during the data collection period, the following shall apply.		N/A
	The average heating capacity shall be determined by using the integrated capacity and the elapsed time corresponding to the total data collection period.		N/A
4.5.4	Effective power input calculation		Р
4.5.4.1	Steady state test		Р

Report NO.: NTRE20160295 Page 17 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	An average electric power input shall be determined from the integrated electrical power over the same data collection period than the one used for the heating/cooling capacity or heat recovery capacity calculation.		Р
4.5.4.2	Transient with defrost cycle		N/A
	An average electric power input shall be determined on the basis of the integrated electrical power and the time corresponding to the total number of complete cycles during the same data collection period as the one used for the heat capacity calculation.		N/A
4.5.4.3	Transient without defrost cycle		N/A
	An average electric power input shall be determined on the basis of the integrated electrical power and the time corresponding to the same data collection period as the one used for the heat capacity calculation.		N/A
5	Electrical consumptions for single duct and double duct units		N/A
5.1	Determination of power consumption due to standby mode		N/A
	The unit (for cooling only and reverse cycle units) is switched in standby mode with the control device, if available. After 10 min, the residual energy consumption is measured and assumed to be the standby mode consumption, PSB.		N/A
	For heating only units, the measurements are made in the same way, after the following test condition.		N/A
5.2	Determination of power consumption in off-mode		N/A
	Following the standby mode test, the unit shall be switched in off mode, if available, while remaining plugged. After 10 min, the residual energy power is measured and assumed to be the off mode consumption, POFF.		N/A
5.3	Electricity consumption		N/A
	The electricity consumption in cooling mode, QSD for single duct units and QDD for double duct units, shall be declared as the rated power input PEER multiplied by the number of "on mode" hours as specified in the regulation and equal to 1. It is expressed in kWh/h.		N/A

Report NO.: *NTRE20160295* Page 18 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	The electricity consumption in heating mode, QSD for single duct units and QDD for double duct units, shall be declared as the rated power input PCOP multiplied by the number of "on mode" hours as specified in the regulation and equal to 1. It is expressed in kWh/h.		N/A
6	Air flow rate measurement of ducted units		N/A
	For ducted units, the manufacturer shall declare the rated air flow rate, indoor and/or outdoor as applicable, measured according to Annex J.		N/A
7	Heat recovery test for air-cooled multisplit systems		N/A
7.1	Test installation		N/A
7.1.1	General		
	The heat recovery capacity of the system is determined by measurements in a three room calorimeter or by the air enthalpy method using two or three rooms. The three rooms shall consist of one outdoor and two indoor rooms, one at the heating condition and the other at the cooling condition. The two room air enthalpy method shall have one room at the outdoor condition and the other at the common indoor side condition given in Table 21 of EN 14511-2:2013.		N/A
	The calorimeter room and air enthalpy methods are described in annex A and annex B respectively.Each calorimeter room shall satisfy the requirements of annex A and the test facilities for the air enthalpy method shall satisfy the requirements of annex B.		N/A
7.1.2	Three-room calorimeter method		N/A
	If measurements are made by the calorimeter method, then the testing of a heat recovery system shall need a three-room calorimeter test facility. The indoor units in the cooling mode shall be assembled in one room and the indoor units in the heating mode in the other. The outdoor unit shall be installed in the third room.		N/A
7.1.3	Three-room air-enthalpy method		N/A
	The indoor units in the cooling mode shall be assembled in one room and the indoor units in the heating mode in another room;the outdoor unit shall be installed in the third room.		N/A
7.1.4	Two-room air-enthalpy method		N/A

Report NO.: *NTRE20160295* Page 19 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
	All indoor units, either operating in cooling or heating mode, are assembled in one indoor room.The outdoor unit shall be installed in the other room.		N/A
	All units operating in the heating mode shall be connected to a common plenum,all units operating in the cooling mode shall be connected to another common plenum,both in accordance with the requirements established in annex B.		N/A
7.2	Test procedure		N/A
	The heat recovery test shall be carried out with all operating indoor units.		N/A
	For ducted indoor units, the individual external static pressure of each indoor unit is set by adjusting a damper located in the duct length connecting the discharge area of the unit to the common plenum.		N/A
7.3	Test results		N/A
	Test results are recorded and expressed as specified in 4.5.		N/A
	The references of the indoor units operating in cooling mode and of the indoor units operating in heating mode shall be specified.		N/A
8	Test report		Р
8.1	General information		Р
	Test report should at least contain:		Р
	<ul> <li>a) date;</li> <li>b)test institute;</li> <li>c)test location;</li> <li>d)test method;</li> <li>e)test supervisor;</li> <li>f)test object designation: Type;serial number;name of the manufacturer; year of initial installation;</li> <li>g)typen of refrigerant;</li> <li>h)mass of refrigerant;</li> <li>i)properties of fluids;</li> <li>j)reference to this European Standard</li> </ul>	See appended test table	Ρ
8.2	Additional information		Р
	Additional information given on the rating plate shall be noted and any other information relevant for the test. Particularly, it shall be strated whether the test is performed on a unit new or not. In the case of a test performed on a unit in use, information relative to the year of installation and heat exchange tubes cleaning shall be given.	New unit use	

Report NO.: NTRE20160295 Page 20 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict
-			
8.3	Rating test results		Р
			_

The rating capcacites, power inputs, COP, EER, internal or external static pressure shall be given together with the rating conditions.	Р

EN 14511-4:2013			
4	Requirements		Р
4.1	General		Р
	Except where otherwise stated, tests shall be conducted as described in EN 14511-2 and EN 14511-3.		Р
4.2	Temperature operating range		Р
4.2.1	Starting test		Р
	The unit shall be capable of operating within the limit of use indicated by the manufacturer.		Р
	For every condition stated in Table 1, and for both cooling and heating mode where applicable, the unit shall start up and operate for at least 30 min, without being stopped by the safety devices.	The unit start up and operate for more than 30min continuously without stop.	Р
4.2.2	Test at maximum operating conditions(cooling mode)		Р
	When operated at conditions stated in Table 2 during 1h,then switch off for 3 min,and then switched on again for 1h,the unit shall meet the following requirements:		Ρ
	the unit shall suffer no damage;	No any damage	Р
	the unit motor shall operate continuously for the first hour without tripping of the motor overload protective devices;	The unit can operate continuously without any trip.	Ρ
	after the shut-down period of 3 min,the unit shall restart automatically no more than 5 min after restarting of the compressor;	After the shut-down period of 3 min, the unit can restart automatically.	Р
	The unit motor shall operate again continuously for the rest of the second hour without tripping of the motor overloads protective devices.	The unit can operate continuously without any trip.	Р
4.2.3	Freeze-up test		Р
4.2.3.1	Air-cooled unit		Р
	After the unit has operated for 6 h at the conditions stated in Table 3,and after the last freeze up cycle has completed,the following requirements shall be fulfilled:	Condition: indoor 21/15 outdoor 21/15℃ Operate for 6 h.	Р

Report NO.: NTRE20160295 Page 21 of 41



	NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
Clause	Requirement - Test	Result - Remark	Verdict	
	no ice shall have accumulated on the evaporator;		Р	
	no ice shall drip from the unit;;		Р	
	no water shall drip or be blown off the unit into the room.		Р	
4.2.3.2	Water-cooled units	Air cooled	N/A	
	After the unit has operated for 6h at the conditions stated in Table 3 the following requirements shall be fulfilled:		N/A	
	air flow through the unit shall not have dropped by more than 5%;		N/A	
	NOTE It shall be assured that the air flow through the unit is not adjusted during the test by some automatic control device.		N/A	
	the water temperature difference through the unit shall not have dropped by more than 30%;		N/A	
4.3	Outside the operating range		Р	
	If operating outside the temperature range can cause damage to the unit, it shall be provided with safety devices which ensure that the unit suffers no damage when the operating limits of use indicated by the manufacturer are exceeded and remains capable of operating when coming back within these limits. A safety device that does not automatically reset may trip provided that a warning device is filled.		P	
	The manufacturer shall indicate any safety devices provided and their operating conditions according to 7.2.3.		Р	
4.4	Shutting off the heat transfer medium flows		Р	
	To check the correct operating of the safety devices on the unit, the following faults shall be simulated consecutively, The unit shall have attained steady state in the standard rating conditions according to Tables 3 to 23 of EN14511-2:2013 for 30min before every fault is simulated.Each fault simulated shall be maintained for at least 1h.		Р	
	a) Shutting off the heat transfer medium flow at the outdoor heat exchanger.		Р	
	b) Shutting off the heat transfer medium flow at the indoor heat exchanger.		Р	
	c) Shutting off the heat transfer medium flow at the heat recovery heat exchanger where applicable.		Р	



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013				
Clause	Requirement - Test	Result - Remark	Verdict	
	The unit shall suffer no damage and shall remain capable of operating after restoration of the flow rates.A safety device that does not automatically reset may trip provided that a warning device is fitted.		Р	
	For units with defrosting system, an additional test will be conducted at the test conditions specified in Table 4 by shutting off the heat transfer medium flow at the indoor heat exchanger , at the beginning of the defrosting phase.		Р	
	the saturated temperature corresponding to the pressure measured at the suction of the compressor shall not have decreased by more than 2K.		Р	
4.5	Complete power supply failure		Р	
	Complete power supply failure lasting approximately 5s shall be simulated. The unit shall have attained steady state conditions before the fault simulation, at the standard rating condition according to Table 3 to 15 of EN 14511-2:2013.		Ρ	
	The unit has to restart automatically within 30 min. When the manufacturer states that the unit does notautomatically restart, fault detection is necessary.		Р	
	The unit is checked for any damage sustained during the test and if any safety devices have operated during the test.		Р	
4.6	Condensate draining and enclosure sweat test		Р	
	In heating mode, draining of condensate, including that formed on the enclosure, shall be made correctly when operating at the standard rating conditions given in Tables 3 to 23 of EN 14511- 2:2013. In cooling mode, draining of condensate, including		Р	
	that formed on the enclosure, shall be made correctly when operating at conditions given in Table 5.			
	During the test of 4h no condensed water shall drip,run or blow off the unit except through the drain.		Р	
	For indoor units, drain holes shall be provided with suitable pipe connection, the minimum diameter of which shall be 12mm.		Р	
4.7	Defrosting(where applicable)		Р	
	For air-to-air and air-to-water units, the functioning of any defrosting system shall be verified under any one of the application rating conditions with an outdoor air temperature of 2(1) °C (see Table 3,Tables 12 to 15 and Table 19 of EN 14511- 2:2011), where frosting occurs.		Р	



	NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013					
Clause	Requirement - Test	Result - Remark	Verdict			
	At least three successive frosting/defrosting cycles shall be repeated without running in progressively deteriorating average performances. There shall not be growth of ice in and around the drip tray.		Р			
4.8	Other requirements		P			
	Components in air handling systems, such as fans, filters, heat exchangers, etc., shall be easily accessible and resistant for cleaning purposes recommended by the manufacturer.		Р			
5	Marking	See the rating labels	Р			
	Each unit shall have a durable, permanently fixed rating plate that is easily readable or accessible when the unit is in position for use, bearing at least the following information in addition to information required by safety standards.	Label attached on indoor and outdoor unit	Ρ			
	In the case of units consisting of several parts which can be made by different matching,only items a) and b) are to be indicated, where item b) applies to each part.		Р			
	Items c) and d) depended on the considered matching and shall be indicated in the manufacturer's data sheet.		Р			
	a) manufacturer or supplier;		Р			
	b) manufacturer's model designation and serial number;		Ρ			
	c) the cop and/or EER to three significant figures and the standard rating condition at which it is measured according to tables 3 to 15 of EN14511- 2:2013;		Р			
	d)heating/cooling capacity in kilowatts, with two digits after the decimal comma but not more than 3 significant figures at the test condition given in item c) of clause 5.		Р			
	e)for control cabinet air conditioners, the sensible cooling capacity in kilowatts, with one digit after the decimal comma but more than 3 significant figures at the test condition given in item c) of clauses.		Р			
	Further information may be provided with regard to rating only the other rating conditions given in tables 3 to 23 of EN14511-2:2013 are to be used.		Р			
6	Technical data sheet	See appended table 6 for EN14511-4	Р			
6.1	General description		Р			
6.2.3	Sound characteristics		Р			



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013					
Clause	Requirement - Test	Result - Remark	Verdict		
	The manufacturer shall provide the sound power level and the corresponding test method according to EN 12102	Declared on the energy label	Р		
6.3	Electrical characteristics		Р		
	The manufacturer shall specify the electrical the characteristics in accordance with EN 60035-2-40 or EN 60204-1 as applicable and:		Р		
	— maximum starting current of the unit, as defined in EN 61000-3-11;	1	N/A		
	<ul> <li>— total power input and current at the rated point, excluding the starting period;</li> </ul>	See the name plate	Р		
	<ul> <li>reactive power or power factor at the rated point,for units with a total power input greater than 10KW;</li> </ul>		N/A		
	— power input of fan and pump if included in the units;		Р		
6.4	Operating range		Р		
	<ul> <li>The manufacturer shall specify:</li> <li>— limits of use (temperatures and flows);</li> <li>— whether there are devices fitted which do not allow the unit to operate when these limits are exceeded;</li> </ul>		Ρ		
7	Instructions		Р		
7.1	General		Р		
	If not already required by other standards, the manufacturer shall provide the information as described.		Р		
7.2	Physical description		Р		
7.2.1	Refrigerant ,air and /or liquid circuits		Р		
	The manufacturer shall:		Р		
	Specify the refrigerant, air and liquid circuits preferably providing circuit diagrams, showing every functional unit,control and safety device and specifying their type;	In the manual and the name plate	Р		
	If the unit uses water in the hest exchangers specify the water capacity contained in the unit, and specify either the constructional materials of the heat exchangers or the water quality;	Air to air	Ρ		
	If used, specify the type of brine and the concentratuion into any othert liquid;	Air to air	Р		
	Specify the type of oil to be used in the compressor		Р		



	NO 626/2011 &EN 14511 and NO 206/2012	& EN 14825: 2013	
Clause	Requirement - Test	Result - Remark	Verdict
7.2.2	Additional heating devices, when integral to the unit	No additional heating element	N/A
	The manufacturer shall specify the type and location of additional heating devices and their control and safety devices.		N/A
7.2.3	Control and sefety		Р
	The manufacturer shall:		Р
	State the funcutions achieved by the control; and safety devices provided with the unit and specify when applicable their provision for adjustment and the method by which the safety devices are reset;		Р
	Provide specifivations for any control or safety devices necessary to ensure correct operation of the unit but which are not provided with the unit;		Р
	Specify any limitation to the use of the rest of the installation.		Р
7.3	Instructions for installation		Р
	The manufacturer shall specify in particular:		Р
	-the required location conditions(whether units are to be installed outside or in a weather proof enclosure,or in a heated space);	See the user manual	Р
	-requirements of physical layout, access and clearance;	See the user manual	Р
	-Requirements for the electrical, liquid, air and refrigerant connections, to be made on site;	See the user manual	Р
	—The location of warning and tripping devices;	See the user manual	Р
	—The installation precautions tobe taken to ensure, in particular:	See the user manual	Р
	<ul> <li>-correct circulation of the heat transfer media;</li> <li>-water draining;</li> <li>-cleaniness of heat ecchange surfaces;</li> <li>-to minimise noise, vibration or other adverse effects.</li> </ul>		
	Special indications for units usoing soil, sea water, ground water or surface water: specify any materials which are in contact with the water or with the brine.	Air-to-air	N/A
7.4	Instruction for maintenance	See the user manual	Р
	The manufacturer shall state:	See the user manual	Р
	— content and frequency of rountine maintenance operations to be performed by the user;	See the user manual	Р



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013						
Clause Requirement - Test Result - Remark						
	-					
	— content and frequency of maintenance and inspection operations which shall be performed bu a specilalist.	See the user manual	Р			

#### Appended table

Table 6.	1 for EN14511-3: General inforr	nation	
a)	Test Date: (month/year)	2016.12.03-2016.12.20	Р
b)	Test institute	Testing Center of Gree Electric Appliances Inc. of Zhuhai	Р
C)	Test location	Gree Electric Appliances Inc. of Zhuhai Jinji West Road, Qianshan, Zhuhai, Guangdong 519070, P.R.China	Р
d)	Test method	Air enthalpy method; Free field over a reflecting plane method for sound power level test	Р
e)	Test supervisor	Lu Zhibin	Р
f)	Test object designation	(see appended table)	Р
	- type	GWH12AAB-K6DN**A	Р
	-serial number	Not applicable	N/A
	-name of manufacturer	Gree Electric Appliances Inc. of Zhuhai	Р
	Year of initial installation	2016	Р
g)	Type of refrigerant	R32	Р
h)	Mass of refrigerant	0.65kg	Р

Table 6 for EN14511-4: Technical data sheet				
General description				
-Trade mark,model designation	Trade mark: GREE Model: GWH12AAB-K6DN**A			
-Power supply (Voltage, Frequency)	220-240V~ 50Hz			
-Denomination of the unit	Air-to-air			
-intended use of the unit	Split type air conditioner			
-number of separate component units	2			
-Type and mass of refrigerant charge	Same as that stated in table 6.1 for EN14511-3			
Weight of each separate component unit (kg)	See the nameplates.			
Performance characteristics				
Rating characteristics	GWH12AAB-K6DN**A			
The cooling capcacity(KW)	3.20			



	NO 626/2011 &EN 14511 a	and NO 206/2012 & EN 14825: 2013				
Clause	Requirement - Test	Result - Remark	Verdict			
The offectiv	(a nowar input(cooling) (K\M)	0 997				
		2.01				
		2.40				
		5.40				
The effective	/e power input(heating) (KW)	0.941				
COP		3.61				
The heat re liquid (wher	ecovery capacity and the type of re applicable) (KW)	N/A				
Remark: Th	he characteristics apply to a new un	it with clean heat exchangers.				
Other addit	tional characteristics					
Fan speed	settings	High speed				
Non ducted rotational s pressure di	Non ducted air-ro-water units:flow rates or Air-to-air units rotational speed of fans; water flow rate and pressure difference;					
Unit intende nominal flow water.	ed to discharge into double floor: w rate and external static for air and	Not intended				
Other tyoes external sta water.	s of units: nominal flow rates and atic pressure differences for air and	Not intended				
Sound char	racteristics (sound power level)	See energy labelling				
Electrical cl	haracteristics					
In accordar	nce with EN60335-2-40	All the electrical characteristics required of EN are specified by the manufacturer	60335-2-40			
-the maxim	um starting current of the unit	N/A				
-the total po point, exclu	ower input and current at the rate iding the starting period.	See the technical data sheet				
-Reactive p units with a 10KW;	ower factor at the rated point,for total power input greater than	N/A				
Operating r	range					
The limits o	of use(temperature and flows)	Stated in manual				
-whether th allow the un exceeded;	ere are devices fitted which do not nit to operate when these limits are	Yes, several protective devices provided in the product.				
-the maxim the indoor h operating(fo	um inlet temperature permitted at neat exchanger when the unit is not or heating mode reqirements)	<b>27</b> °C				



 NO 626/2011 & EN 14511 and NO 206/2012 & EN 14825: 2013

 Clause
 Requirement - Test
 Result - Remark
 Verdict

	COMMISSIC	N REGULATIO	ON (EU) No	206/2012				
Article 1	Subject matter and scope							
1	This Regulation establishes eco-design requirements for the placing on the market of electric mains-operated air conditioners with a rated capacity of $\leq 12$ kW for cooling, or heating if the product has no cooling function, and comfort fans with an electric fan power input $\leq 125W$ .	Air conditione Rated capacit	Air conditioner Rated capacity ≤12 kW					
2 Article 2	This Regulation shall not apply to: (a) appliances that use non-electric energy sources; (b) air conditioners of which the condenser-side or evaporator-side, or both, do not use air for heat transfer medium.	this Regulation	the definiti	ons in Artic	le 2 of Dira	octive	N/A	
Article 2	2009/125/EC of the European F	Parliament and	of the Coun	cil shall app	oly.	cuve	-	
Article 3	Ecodesign requirements and tir	netable					Р	
1	The ecodesign requirements for air conditioners and comfort fans are set out in Annex I.						Р	
2	Each ecodesign requirement shall apply in accordance with the following timetable:	See table 1					Р	
			Double duct air EER rated	conditioners COP rated	Single duct air EER rated	conditioner COP rated	N/A	
		If GWP of refrigerant >150	2,40	2,36	2,40	1,80		
	From 1 January 2013: single	If GWP of refrigerant ≤150	2,16	2,12	2,16	1,62		
	duct and double duct air conditioners shall correspond						N/A	
single duct	to requirements as indicated	Off mode		Power consum condition shall				
and double duct air conditioners		Standby mode		The power con condition prov providing only indication of e exceed 1,00 V				
				The power con condition prov display, or pro reactivation fu display, shall r				
		Availability of standby and/or off mode Availability of standby and/or off mode Availability of standby and/or off mode Availability of standby and/or off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.				is is inappropriate node and/or ndition which does consumption standby mode I to the mains		
			Indoor cound	nowerlovel	in $dB(\Lambda)$	1		
		Indoor sound power level in dB(A)						
							-	



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013 Requirement - Test Result - Remark Clause Verdict Requirements for maximum power consumption in off-mode and standby mode N/A Power consumption of equipment in any off-mode condition shall not exceed 0,50 W. Off mode From 1 January 2014, single The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, the set of the set duct and double duct air conditioners and comfort fans shall not exceed 0,50 W. Standby mode shall correspond to The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 1,00 W. requirements as indicated in Table 7 below, calculated in accordance with Annex II. Equipment shall, except where this is Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. Availability of standby and/or off mode When equipment is not providing the main function, or when other energy- using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, Power management automatically into: - standby mode, or - off mode, or - another condition which does not mode, of — another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. The power management function shall be activated before delivery. Requirements for minimum energy efficiency Р SEER SCOP (Average heating season) From 1 January 2013: (a) air If GWP of refrigerant conditioners, except single 3.60 3,40 > 150 and double duct air except conditioners, shall correspond single and If GWP of refrigerant 3,24 3.06 to requirements as indicated ≤ 150 double duct in Annex I, point 2(b) and air Ρ points 3(a), 3(b), 3(c); (b) conditioners single ducts and double ducts Requirements for maximum sound power level shall correspond to Rated capacity≤6KW 6<Rated capacity≤12KW requirements as indicated in Annex I, points 3(a), 3(b), Outdoor sound 3(d); (c) comfort fans shall Indoor sound power level in Outdoor sound Indoor sound power power level in power level in evel in dB(A) correspond to requirements dB(A) dB(A) dB(A) as indicated in Annex I, points 3(a), 3(b), 3(e). 60 65 65 70 Requirements for minimum energy effic Double duct air Р Air conditioners, except Single duct air conditioners From 1 January 2014: (a) air double and single duct conditioners air conditi conditioners shall correspond COP(heatin EER rated SEER COPrated EERrated COPrated to ecodesign requirements as indicated in Annex I, point If GWP of refrigerant > 150 for < 6 kW 2(c); (b) single duct and 2,60 4,60 3,80 2,60 2,60 2,04 double duct air conditioners If GWP of shall correspond to refrigerant ≤ 150 for < 6 kW 4,14 3,42 2,34 2,34 2,34 1,84 requirements as indicated in Annex I, point 2(d). If GWP of refrigerant > 150 for 6-12 kW 3,80 2,60 2,60 2,60 2,04 4,30 If GWP of refrigerar ≤ 150 for 6-12 kW 3,87 3,42 2,34 2,34 2,34 1,84



	NO 626/2011 &EN 145	11 and NO 206/2012 & EN 14825: 2013	
Clause	Requirement - Test	Result - Remark	Verdict
3	Compliance with ecodesign requirements shall be measured and calculated in accordance with requirements set out in Annex II.		P
Article 4	Conformity assessment		Р
1	The conformity assessment procedure referred to in Article 8 of Directive 2009/125/EC shall be the internal design control set out in Annex IV to that Directive or the management system set out in Annex V to that Directive.		P
2	For the purposes of conformity assessment pursuant to Article 8 of Directive 2009/125/EC, the technical documen-tation file shall contain the results of the calculation set out in Annex II to this Regulation.		P
Article 5	Verification procedure for marke	t surveillance purposes	Р
	Member States shall apply the Regulation when performing the Directive 2009/125/EC for comp Regulation.	rerification procedure described in Annex III to this market surveillance checks referred to in Article 3(2 liance with requirements set out in Annex I to this	) of P
Article 6	Benchmarks		-
	The indicative benchmarks for b the time of entry into force of thi	est-performing air conditioners available on the mark s Regulation are set out in Annex IV.	ket at
Article 7	Revision		-
	The Commission shall review the present the result of this review from the date of the entry into for the efficiency and sound power global warming potential (GWP) conditioners and possible chang conditioners above 12 kW rated appropriateness of the standby measurement method, including calculation and measurement method for a seasons.	is Regulation in the light of technological progress ar to the Ecodesign Consultation Forum no later than 5 rce of this Regulation. The review shall in particular a level requirements, the approach to promote the use refrigerants and the scope of the Regulation for air ges in market share of types of appliances, including output power. The review shall also assess the and off mode requirements, seasonal calculation and g considerations on the development of a possible se II air conditioners in the scope for cooling and heating	nd _ years _ assess of low- air d asonal
Article 8	Entry into force and application		Р
	<ol> <li>This Regulation shall enter in Official Journal of the European</li> <li>It shall apply from 1 January</li> </ol>	to force on the 20th day following its publication in th Union. 2013.	e P
Annex I	Ecodesign requirements		Р
1	Definitions applicable for the purposes of the annexes		Р
2	Requirements for minimum energy efficiency, maximum power consumption in off- mode and standby mode and for maximum sound power level		P



	NO 626/2011 &EN 145	511 and NC	206	/2012 8	& EN 1	14825: 2	2013	i		
Clause	Requirement - Test				Result - Remark				Verdict	
	(a) From 1 January 2013,		Doubl	e duct air co	onditioners	Single duct air conditioner		conditioner	N/A	
	air conditioners shall		EER r	ated	COP rate	ed EER	rated	COP rated		
	correspond to requirements as indicated in Tables 1, 2	If GWP of refrigerant >1 50	2	2,40	2,3	6	2,40	1,80		
	accordance with Annex II. Single duct and double duct	lf GWP of refrigerant ≤150	2	2,16	2,1	2	2,16	1,62		
	air conditioners and comfort fans shall fulfil the requirements on standby and	Off mode			Po	ower consumption	n of equipm exceed 1,0	nent in any off-mode 0 W.	N/A	
	off mode as indicated in Table 2 below. The requirements on minimum energy efficiency and maximum sound power	Standby mode			The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 1,00 W.					
	shall relate to the standard rating conditions specified in Annex II, Table 2.	Availability of standby and/or off mode			Th co dis re- dis	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 2,00 W.				
					Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.					
		Indoor sound power level in dB(A)								
	(b) From 1 January 2013 air									
	conditioners, except single		n	SEER	s for minim	SCOP (Ave	P			
	and double duct air conditioners, shall correspond to minimum energy efficiency	If GWP of refriger 150	ant >	3,60			3,40			
	and maximum sound power	If GWP of refriger 150	ant≤	3,24			3,06			
	indicated in Tables 4 and 5		Requirements for maximum sound power level						Р	
	accordance with Annex II. The		Rated capacity≤6KV			W 6 <rated capac<="" td=""><td>ty≪12KW</td><td></td></rated>		ty≪12KW		
	requirements on energy efficiency shall take into account the reference design	Indoor sound power level in dB(A)		Outdoor sound pov level in dB	ver p s(A) c	ndoor sound bower level in dB(A)	C p d	Outdoor sound ower level in B(A)		
	conditions specified in Annex II, Table 3 using the 'Average'	60		65		65		70		
	heating season where applicable. The requirements	Sound power level test result according to EN 12102:2013 Indoor: 55 dB(A)								
	the standard rating conditions specified in Annex II, Table 2	Outdoor:	62 d	B(A)						



	NO 626/2011 &EN 145	511 and	NO 20	6/2012	& EN 1	4825:	2013	<u>.</u>	
Clause	Requirement - Test				Resul	t - Rema	ark		Verdict
	(c) From 1 January 2014, air		Air cond	Requirements tioners, except	for minimum Double	energy efficien	Single duct	air	N/A
	to requirements as indicated		air condi	scop (heating season:	g EER rated	COPrated	EERrated	COPrated	
	in accordance with Annex II. The requirements on energy	If GWP of refrigerant > 150 for < 6 kW	4,60	Average) 3,80	2,60	2,60	2,60	2,04	
	excluding single and double duct air conditioners, shall relate to the reference design	If GWP of refrigerant ≤ 150 for < 6 kW	4,14	3,42	2,34	2,34	2,34	1,84	
	conditions specified in Annex II, Table 3 using the 'Average' heating season where	If GWP of refrigerant > 150 for 6-12 kW	4,30	3,80	2,60	2,60	2,60	2,04	
	applicable. The requirements on energy efficiency for single and double duct air	If GWP of refrigerant ≤ 150 for 6-12 kW	3,87	3,42	2,34	2,34	2,34	1,84	
	conditioners shall relate to the standard rating conditions specified in Annex II, Table 2.								
	(d) From 1 January 2014, single duct and double duct air conditioners and comfort	Requirements for maximum power consumption in off-mode and standby mode						N/A	
	fans shall correspond to	Off mode				Power consumption of equipment in any off- mode condition shall not exceed 0,50 W.			
	requirements as indicated in Table 7 below, calculated in accordance with Annex II.	Standby mode				The power consumption of equipment in any condition providing only a reactivation function and mere indication of enabled reactivation function and shall not exceed 0,50 W.			
					The power consumption of equipment in an condition providing only information or statu display, or providing only a combination of reactivation function and information or statu display, shall not exceed 1,00 W.			quipment in any mation or status ombination of rmation or status ) W.	
		Availability of standby and/or off mode				Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.			
		When equipment is not providing the main function, or when other energy-using product(x) are not dependent on its functions, equipment shall, unless inappropriate for the intended use offer a power management function, or a simile function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: — standby mode, or — off mode, or — another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mod when the equipment is connected to the mains power source. The power management function shall be activated before delivery.					s) , , , , , , , , , , , , , , , , , , ,		
3	Product information requirements								Р
	<ul> <li>(a) From 1 January 2013, as regards air conditioners and comfort fans, the information set out in points below and calculated in accordance with Annex II shall be provided on:</li> <li>(i) the technical documentation of the product;</li> <li>(ii) free access websites of manufacturers of air conditioners and comfort fans;</li> </ul>								P



use H	Requirement - Test		Result	t - Remark		V	'erdict
	-		<b>I</b>				
	(b) The manufacturer of air conditioners and comfort fans shall provide laboratories performing market surveillance checks, upon request, the necessary information on the setting of the unit as applied for the establishment of declared capacities, SEER/EER, SCOP/COP values and service values and provide contact information for obtaining such information.						Ρ
	(c) Information requirements for air conditioners, except double duct and single duct air conditioners.	See appendix					Ρ
	(d) Information requirements for single duct and double duct air conditioners. Single duct air conditioners shall be named 'local air conditioners' in packaging, product documentation and in any advertisement material, whether electronic or in paper. Manufacturer shall provide information as detailed in the table 2	See appendix					N/A
	(e)Information requirements for comfort fans.	Air conditioner					N/A
nnex II	Measurements and calculation	ons				$\uparrow$	Р
nnex III	Verification procedure for ma	arket surveillance pu	irposes				Ρ
nnex IV	Benchmarks						Р
		Air conditioners, excluding double duct and single duct conditioners	Benchm Doub con	arks for air co le duct air iditioner	nditioners Single du	ct air co	ondition
		SEER SCOP	EER	COP	EER	COF	2
		9 50 5 40	2 00/*1	2 1 5	0 1 5 (*)	0.00	)



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013				
Clause	Requirement - Test	Result - Remark	Verdict	

	COMMISSION DELEGATED REGULATI	ON (EU) No 626/2011	
Article 3	Responsibilities of suppliers		Р
1	Suppliers shall take action as described in points (a) to (g)		-
	(a) a printed label is provided for each air conditioner respecting energy efficiency classes as set out in Annex II. The label shall comply with the format and content of information as set out in Annex III. For air conditioners, except single and double duct air conditioners, a printed label must be provided, at least in the packaging of the outdoor unit, for at least one combination of indoor and outdoor units at capacity ratio 1. For other combinations, the information can be alternatively provided on a free access web site		Ρ
	(b) a product fiche, as set out in Annex IV, is made available. For air conditioners, except single and double duct air conditioners, a product fiche must be provided at least in the packaging of the out door unit, for at least one combinationof indoor and outdoor units at capacity ratio 1. For other combinations, the information can be alternatively provided on a free access web site		Р
	(c) technical documentation as set out in Annex V is made available electronically on request to the authorities of the Member States and to the Commission		Ρ
	(d) any advertisement for a specific model of an air conditioner shall contain the energy efficiency class, if the advertisement discloses energy-related or price information. Where more than one efficiency class is possible, the supplier or the manufacturer, as appropriate, shall declare the energy efficiencyclass for heating at least in 'Average' heating season. Information in the cases where end-users cannot be expected to see the product displayed is to be provided as set out in Annex VI		Ρ
	(e) any technical promotional material concerning a specific model of an air conditioner which describes its specific technical parameters shall include the energy efficiency class of that model as set out Annex II		Ρ
	(f) instructions for use are made available		Р



Report N	NO.: NTRE20160295 Page 35 of 41	<b>GRE</b>	Ekp
	NO 626/2011 &EN 14511 and NO 206/201	2 & EN 14825: 2013	
Clause	Requirement - Test	Result - Remark	Verdict
	(g) single ducts shall be named 'local air conditioners' in packaging, product documentation and in any advertisement material, whether electronic or in paper.		N/A
2	The energy efficiency class shall be determined as set out in Annex VII.		Р
3	The format of the label for air conditioners except for single and double duct air conditioners shall be as set out in Annex III.		Р
4	For the air conditioners, except for single and double duct air conditioners, the format of the label set out in Annex III shall be applied according to the following timetable:		P
	(a) as regards air conditioners, except single duct and double duct air conditioners, placed on the market from 1 January 2013, labels with energy efficiency classes A, B, C, D, E, F, G shall be in accordance with point 1.1 of Annex III for reversible air conditioners, with point 2.1 of Annex III for cooling-only air conditioners and with point 3.1 of Annex III for heating-only air conditioners;		N/A
	(b) as regards air conditioners, except single duct and double duct air conditioners, placed on the market from 1 January 2015, labels with energy efficiency classes A+, A, B, C, D, E, F, shall be in accordance with point 1.2 of Annex III for reversible air conditioners, with point 2.2 of Annex III for cooling-only air conditioners and with point 3.2 of Annex III for heating-only air conditioners;		N/A
	(c) as regards air conditioners, except single duct and double duct air conditioners, placed on the market from 1 January 2017, labels with energy efficiency classes A++, A+, A, B, C, D, E, shall be in accordance with point 1.3 of Annex III for reversible air conditioners, with point 2.3 of Annex III for cooling-only air conditioners and with point 3.3 of Annex III for heating-only air conditioners;	Cooling mode:A++ Heating mode: Warmmer: A+++ Average: A+ Colder: B	P
	(d) as regards air conditioners, except single duct and double duct air conditioners, placed on the market from 1 January 2019, labels with energy efficiency classes A+++, A++, A+, A, B, C, D shall be in accordance with point 1.4 of Annex III for reversible air conditioners, with point 2.4 of Annex III for cooling-only air conditioners and with point 3.4 of Annex III for heating-only air conditioners.		N/A



	NO 626/2011 &EN 14511 and NO 206/201	2 & EN 14825: 2013	
Clause	Requirement - Test	Result - Remark	Verdict
5	The format of the label for double duct air conditioners placed on the market from 1 January 2013 with energy efficiency classes A+++, A++, A+, A, B, C, D shall be in accordance with point 4.1 of Annex III for reversible double duct air conditioners, with point 4.3 of Annex III for cooling-only double duct air conditioners and with point 4.5 of Annex III for heating-only double duct air conditioners.		N/A
Annex I	Definitions		
	The definition same to EN14825:2013 & NO 206/2012		Р
Annex II	Energy efficiency classes		Р
	Energy efficiency classes for air conditioners, except double ducts and single ducts.	See energy lable	Р
	Energy efficiency classes for double ducts and single ducts.		N/A
Annex II	Energy label	See the page 3	Р



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013				
Clause	Requirement - Test	Result - Remark	Verdict	

### Test result of part load according to EN 14825:

## Calculation of SEER in cooling mode:

Full lo	Full load (Pdesignc):3200 W; Tdesignc: 35°C				
Test item	Indoor DB/WB(℃)	Outdoor DB/WB(℃)	Ptest (W)	Tested EER	Cd
А		35/-	3215	3.25	0,25
В	27/19	30/-	2381	4.81	0,25
С	21/15	25/-	1560	7.89	0,25
D		20/-	1078	12.34	0,25
		Psb= Poff	=1.984W; Pck= 0W; I	Pto=6.895W	
	Те	st SEER		6.57	
	Decla	ared SEER		6.1	
Test SEER≥Declared SEER Pass					
The c	The calculation method of SEER acoording to the clause 6 of EN14825:2013				
Accor	ding table 1	of NO 626/2011, the res	sult efficency classes	: A++	

## Calculation of SCOP in heating mode:

Full load (Pdesignh):3200W ;Tdesignh: -10°C; Climate: Average ; Tbivalent: -7°C; TOL: -10°C					
Test item	Indoor DB(℃)	Outdoor DB/WB(℃)	Ptest(w)	Tested COP	Cd
А		-7/-8	2852	2.49	0,25
В	20/-	2/1	1738	4.08	0,25
С		7/6	1167	5.11	0,25
D		12/11	975	6.33	0,25
E		TOL	2598	2.34	0,25
F		Tbivalent 2852	2852	2.49	0.25
		Psb= Poff	=1.984W; Pck= 0W;	Pto=11.01W	
		SCOP		4.03	
	D	eclared SCOP		4.0	
SCOP≥Declared SCOP Pass					
The calculation method of SEER acoording to the clause 7 of EN14825:2013					
According table 1 of NO 626/2011, the result efficency classes: A+					



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013				
Clause	Requirement - Test	Result - Remark	Verdict	

## Calculation of SCOP in heating mode:

	Full load (Pdesignh):4800W ;Tdesignh: -22°C; Climate: Colder ; Tbivalent: -7°C; TOL: -22°C					
Test item	Indoor DB(℃)	Outdoor DB/WB(℃)	Ptest(w)	Tested	d COP Cd	
А	20/-	-7/-8	3020	2.8	35 0,25	
В		2/1	1785	4.1	12 0,25	
С		7/6	1167	5.1	11 0,25	
D		12/11	975	6.3	33 0,25	
E		TOL	2578	1.8	34 0,25	
F		Tbivalent	3020	2.8	35 0.25	
G		-15/-	2806	2.6	60 0.25	
		Psb= Poff=	1.984W; Pck= 0\	V; Pto=11.01W		
		SCOP			3.31	
	D	eclared SCOP			3.3	
	SCOP≥Declared SCOP Pass					
The calculation method of SEER acoording to the clause 7 of EN14825:2013						
Accord	According table 1 of NO 626/2011, the result efficency classes: B					

## Calculation of SCOP in heating mode:

Full load (Pdesignh):3400W;Tdesignh: 2℃; Climate:Warmer; Tbivalent: 2℃; TOL: 2℃					
Test item	Indoor DB(℃)	Outdoor DB/WB(℃)	Ptest(W)	Tested COP	Cd
А		/	1	1	0,25
В	20/-	2/1	3562	2.50	0,25
С		7/6	2198	4.68	0,25
D		12/11	975	6.33	0,25
E		TOL	3562	2.50	0,25
F		Tbivalent	3562	2.50	0.25
		Psb= Poff=	1.984W; Pck= 0W;	Pto= 11.01W	
		SCOP		5.14	
	D	eclared SCOP		5.1	
SCOP≥Declared SCOP Pass					
The calculation method of SEER acoording to the clause 7 of EN14825:2013					
According table 1 of NO 626/2011, the result efficency classes: A+++					



NO 626/2011 & EN 14511 and NO 206/2012 & EN 14825: 2013				
Clause	Requirement - Test	Result - Remark	Verdict	

# Appendix I: information according to clause 3 of NO 206/2012 ANNEX I , for air conditioners, except single duct and double duct air conditioners

Function (indicate if present)				Only for heating mode, if applicable			
Cooling	Y			Average(mandatory)		Y	
Heating	Y		Warmer(if designed)		Y		
				Colder(if designed) Y			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
	Design load	l		Seasonal efficiency			
Cooling	Pdesignc	3.2	kW	Cooling	SEER	6.1	
Heating/average	Pdesignh	3.2	kW	Heating/average	SCOP/A	4.0	
Heating/warmer	Pdesignh	3.4	kW	Heating/warmer	SCOP/W	5.1	
Heating/colder	Pdesignh	4.8	kW	Heating/colder	SCOP/C	3.3	
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj			Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
<b>Tj=3</b> 5℃	Pdc	3.22	kW	<b>Tj=3</b> 5℃	EERd	3.25	
<b>Tj=3</b> 0℃	Pdc	2.38	kW	<b>Tj=3</b> 0℃	EERd	4.81	
<b>Tj=25</b> ℃	Pdc	1.56	kW	<b>Tj=25</b> ℃	EERd	7.89	
<b>Tj=20</b> ℃	Pdc	1.08	kW	<b>Tj=20</b> ℃	EERd	12.34	
Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj <b>=-7</b> ℃	Pdh	2.85	kW	<b>Tj=-7</b> ℃	COPd	2.49	
Tj <b>=2</b> ℃	Pdh	1.74	kW	<b>Tj=2</b> ℃	COPd	4.08	_
Tj <b>=7</b> ℃	Pdh	1.17	kW	<b>Tj=7</b> ℃	COPd	5.11	_
Tj=12℃	Pdh	0.975	kW	Tj <b>=12</b> ℃	COPd	6.33	_
Tj=operating limit	Pdh	2.60	kW	Tj=operating limit	COPd	2.34	
Tj=bivalent temperature	Pdh	2.85	kW	Tj=bivalent temperature	COPd	2.49	

Report NO.: *NTRE20160295* Page 40 of 41



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013											
Clause Requirement - Test					Result - Remark Verdict						
Fur	Eunction (indicate if present)					Only for heating mode, if applicable					
Cooling Y			Average(mand	Y							
Heating			Y		Warmer(if desi	gned)	Y				
					Colder(if desig	Y					
Item		Symbol	Value	Unit	Item	Symbol	Value	Unit			
Declared capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			Declared coefficient of performance(*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj								
<b>Tj=2</b> ℃		Pdh	3.56	kW	<b>Tj=2</b> ℃	COPd	2.50				
<b>Tj=7</b> ℃		Pdh	2.20	kW	Tj <b>=7</b> ℃	COPd	4.68	_			
<b>Tj=12℃</b>		Pdh	0.98	kW	Tj=12℃	COPd	6.33				
Tj=operating lin	nit	Pdh	3.56	kW	Tj=operating limit	COPd	2.50				
Tj=bivalent temperature		Pdh	3.56	kW	Tj=bivalent temperature	COPd	2.50				
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			Declared coefficient of performance(*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj								
<b>Tj=-7</b> ℃		Pdh	3.02	kW	<b>Tj=-7</b> ℃	COPd	2.85				
Tj=2℃		Pdh	1.79	kW	<b>Tj=2</b> ℃	COPd	4.12				
<b>Tj=7</b> ℃		Pdh	1.17	kW	Tj <b>=7</b> ℃	C-OPd	5.11				
Tj=12℃		Pdh	0.98	kW	Tj=12℃	COPd	6.33				
Tj=operating lin	nit	Pdh	2.58	kW	Tj=operating limit	COPd	1.84				
Tj=bivalent temperature		Pdh	3.02	kW	Tj=bivalent temperature	COPd	2.85				
Tj=-15℃		Pdh	2.81	kW	Tj=-15℃	COPd	2.60	_			
Bivalent temperature				Operating limit temperature							
Heating/Avera	ige	Tbiv	-7	°C	Heating/Average	Tol	-10	°C			
Heating/Warm	ner	Tbiv	2	°C	Heating/Warmer	Tol	2	°C			
Heating/Cold	er	Tbiv	-7	°C	Heating/Colder	Tol	-22	°C			
C	Cyclir	ng interval ca	apacity	acity Cycling interval efficiency							
for cooling		Pcycc	x,x	kW	for cooling	EERcyc	X,X				
for heating		Pcych	x,x	kW	for heating	COPcyc	X,X				
Degradation c efficient coolin (**)	co- ng	Cdc	Х,Х		Degradation co- efficient heating (**)	Cdh	x,x				



NO 626/2011 & EN 14511 and NO 206/2012 & EN 14825: 2013							
Clause	Requirement - Test	Result - Remark	Verdict				

	unction (in	dicato if procor	at)		Only for h	oating mo	do if applicable		
Function (indicate il present)									
Cooling	Y				Average(mand	atory)	Υ		
Heating		Y			Warmer(if desi	gned)	Y		
					Colder(if designed) Y				
Item	Symbol	Value		Unit	Item	Symbol	Value	Unit	
Electric power input in power modes other than 'active mode'					Annual electricity consumption				
Off mode	P <sub>OFF</sub>	0.00198	34	kW	Cooling	Q <sub>CE</sub>	184	kWh/a	
Standby mode	P <sub>SB</sub>	0.001984		kW	Heating/Average	Q <sub>HE</sub>	1120	kWh/a	
Thermostat- off mode	P <sub>TO</sub>	0.006895/0.01101		kW	Heating/Warmer	$Q_{HE}$	933	kWh/a	
Crankcase heater mode	Р <sub>ск</sub>	0		kW	Heating/Colder	Q <sub>HE</sub>	3055	kWh/a	
Capacity control (indicate one of three options)					Other items				
fixed	N				Sound power level (indoor/outdoor)	L <sub>WA</sub>	55/62	dB(A)	
staged	Ν				Global warming potential	GWP	675	kgCO <sub>2</sub> eq.	
variable	Y				Rated air flow (indoor/outdoor)	—	550/2200	m <sup>3</sup> /h	
Contact details for obtaining more information Gree Electric Jinji West Ro P.R.China Email: joann				: Appliances Inc. of Zhuhai bad, Qianshan, Zhuhai, Guangdong 519070, nani@gree.com.cn					

For units with capacity control marked 'staged', two values for the highest and lowest, noted 'hi/lo' divided by a slash ('/') will be declared in each box under 'Declared capacity'.

--End of report--