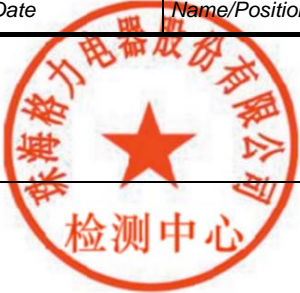




Test Report No.:		NTR20160023		Page 1 of 7	
Applicant Name:		AS Wilfa Industriveien 25, 1481 Hagan, Norway			
Test item:		Split Air Conditioner			
Identification:		Tynset 6500 Extreme		Serial No.: Engineering sample	
Receipt No.:		Not referred		Date of receipt: 2015.11.8	
Testing location:		Gree Electric Appliances Inc. of Zhuhai Jinji West Road, Qianshan, Zhuhai, Guangdong 519070, P.R.China			
Test specification:		NO 206/2012 NO 626/2011 EN 14825:2013 EN 14511-1,2,3,4:2013			
Test Result:		The test items passed the test specification(s).			
Testing Laboratory:		Testing Center of Gree Electric Appliances Inc. of Zhuhai			
tested by:			reviewed by:		
2015.11.8		田磊	2015.11.11		李智斌
Date	Name/Position	Signature	Date	Name/Position	Signature
Other Aspects:					
<b>Abbreviations:</b> P(ass) = passed F(ail) = failed N/A = not applicable N/T =not tested					
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.					





**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 tests were performed on the model GWH12TB-S3DBA2D as representative.
4. The samples are engineering samples without serial numbers.

<b>Test item particulars</b> ..... :	
Class of temperature	T1
Type .....	Split Air Conditioner
Degree of protection	Indoor unit:IP20 Outdoor unit:IP24
Supply Connection..... :	Type Y attachment
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing</b> ..... :	
Date of receipt of test item..... :	2015.11.8
Date (s) of performance of tests..... :	2015.11.1-2015.11.11

**General remarks**

- This appliance is split type air conditioner, which consist of one outdoor unit and one indoor unit.
- The indoor unit is a Split Air 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.

**Model list:**

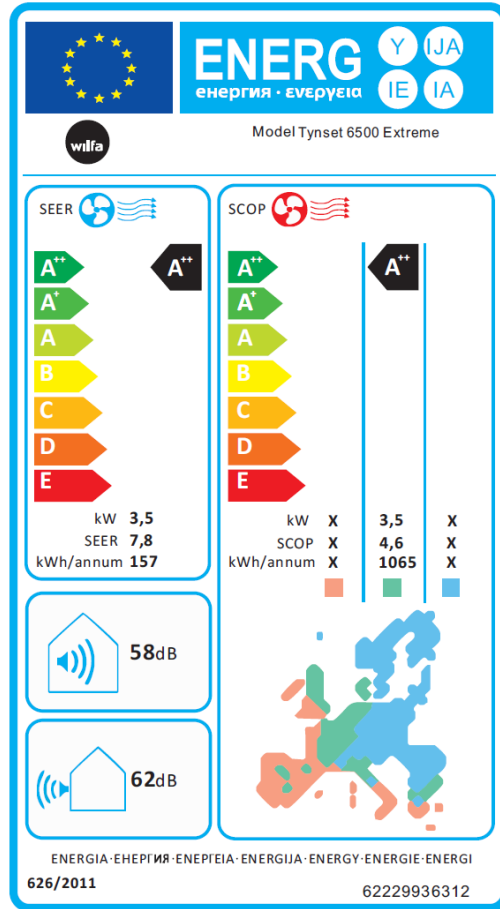
Model	Compressor model	Indoor fan motor	Outdoor fan motor
<b>Tynset 6500 Extreme</b>	<b>QXAT-B096zE070</b>	<b>FN10D-ZL</b>	<b>FW30J-ZL</b>

Note:



Rating labels and marking:

Energy labelling





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:**

<b>Full load (Pdesignc):3500 W; Tdesignc: 35°C</b>						
Test item	Indoor DB/WB(°C)	Outdoor DB/WB(°C)	P <sub>test</sub> (W)	frequency of compressor (±3Hz)	Tested EER	Cd
A	27/19	35/-	3354.1	54Hz	3.81	0,25
B		30/-	2495.4	36Hz	5.64	0,25
C		25/-	1637.6	19Hz	10.15	0,25
D		20/-	1554.4	17Hz	13.35	0,25
P <sub>sb</sub> = P <sub>off</sub> =1.37 W; P <sub>ck</sub> = 0W; P <sub>to</sub> = 7.714 W						
Test SEER					7.82	
Declared SEER					7.8	
Test SEER ≥ Declared SEER					Pass	
The calculation method of SEER according to the clause 6 of EN14825:2013						
According table 1 of NO 626/2011, the result efficiency classes: A++						

**Calculation of SCOP in heating mode:**

<b>Full load (Pdesignc):3500W ;Tdesignh: -10°C; Climate: Average ; Tbivalent: -7°C; TOL: -25°C</b>						
Test item	Indoor DB(°C)	Outdoor DB/WB(°C)	P <sub>test</sub> (W)	frequency of compressor (±3Hz)	Tested COP	Cd
A	20/-	-7/-8	3026.7	67Hz	3.01	0,25
B		2/1	1932.0	35Hz	4.71	0,25
C		7/6	1284.3	19Hz	5.68	0,25
D		12/11	1259.7	17Hz	7.32	0,25
F		Tbivalent	3026.7	67Hz	3.01	0.25
/		Tdesignh	2830.8	105Hz	2.83	0,25
P <sub>sb</sub> = P <sub>off</sub> =1.37 W; P <sub>ck</sub> = 0W; P <sub>to</sub> = 11.7W						
SCOP					4.62	
Declared SCOP					4.6	
SCOP ≥ Declared SCOP					Pass	
The calculation method of SEER according to the clause 7 of EN14825:2013						
According table 1 of NO 626/2011, the result efficiency 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)	N		
				Colder(if designed)	Y		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Design load				Seasonal efficiency			
Cooling	Pdesignc	3,5	kW	Cooling	SEER	7,8	—
Heating/average	Pdesignh	3,5	kW	Heating/average	SCOP/A	4,6	—
Heating/warmer	Pdesignh	—	kW	Heating/warmer	SCOP/W	—	—
Heating/colder	Pdesignh	—	kW	Heating/colder	SCOP/C	—	—
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
Tj=35°C	Pdc	3,5	kW	Tj=35°C	EERd	3.9	—
Tj=30°C	Pdc	2,6	kW	Tj=30°C	EERd	5.7	—
Tj=25°C	Pdc	1,6	kW	Tj=25°C	EERd	10.1	—
Tj=20°C	Pdc	1,5	kW	Tj=20°C	EERd	13.2	—
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=-7°C	Pdh	3.0	kW	Tj=-7°C	COPd	3.0	—
Tj=2°C	Pdh	1.9	kW	Tj=2°C	COPd	4.7	—
Tj=7°C	Pdh	1.3	kW	Tj=7°C	COPd	5.7	—
Tj=12°C	Pdh	1.3	kW	Tj=12°C	COPd	7.3	—
Tj=bivalent temperature	Pdh	3.0	kW	Tj=bivalent temperature	COPd	3.0	—
Tj=Tdesignh	Pdh	2.8	kW	Tj=Tdesignh	COPd	2.8	—

NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013							
Clause	Requirement - Test			Result - Remark			Verdict
Function (indicate if present)				Only for heating mode, if applicable			
Cooling	Y			Average(mandatory)	Y		
Heating	Y			Warmer(if designed)	N		
				Colder(if designed)	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			
Tj=2°C	Pdh	x,x	kW	Tj=2°C	COPd	x,x	—
Tj=7°C	Pdh	x,x	kW	Tj=7°C	COPd	x,x	—
Tj=12°C	Pdh	x,x	kW	Tj=12°C	COPd	x,x	—
Tj=bivalent temperature	Pdh	x,x	kW	Tj=bivalent temperature	COPd	x,x	—
Tj=operating limit	Pdh	x,x	kW	Tj=operating limit	COPd	x,x	—
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			
Tj=-7°C	Pdh	x,x	kW	Tj=-7°C	COPd	x,x	—
Tj=2°C	Pdh	x,x	kW	Tj=2°C	COPd	x,x	—
Tj=7°C	Pdh	x,x	kW	Tj=7°C	COPd	x,x	—
Tj=12°C	Pdh	x,x	kW	Tj=12°C	COPd	x,x	—
Tj=bivalent temperature	Pdh	x,x	kW	Tj=bivalent temperature	COPd	x,x	—
Tj=-15°C	Pdh	x,x	kW	Tj=-15°C	COPd	x,x	—
Tj=Tdesignh	Pdh	x,x	kW	Tj=Tdesignh	COPd	x,x	—
Bivalent temperature				Operating limit temperature			
Heating/Average	Tbiv	-7	°C	Heating/Average	Tol	-25	°C
Heating/Warmer	Tbiv	x	°C	Heating/Warmer	Tol	x	°C
Heating/Colder	Tbiv	x	°C	Heating/Colder	Tol	x	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	for cooling	EERcyc	x,x	—
for heating	Ppsych	x,x	kW	for heating	COPcyc	x,x	—
Degradation co-efficient cooling (**)	Cdc	0.25	—	Degradation co-efficient heating (**)	Cdh	0.25	—



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

Function (indicate if present)				Only for heating mode, if applicable			
Cooling	Y			Average(mandatory)	Y		
Heating	Y			Warmer(if designed)	N		
				Colder(if designed)	N		
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>	0.00137	kW	Cooling	Q <sub>CE</sub>	157	kWh/a
Standby mode	P <sub>SB</sub>	0.00137	kW	Heating/Average	Q <sub>HE</sub>	1065	kWh/a
Thermostat-off mode	P <sub>TO</sub>	0.0071/0.0117	kW	Heating/Warmer	Q <sub>HE</sub>	—	kWh/a
Crankcase heater mode	P <sub>CK</sub>	0	kW	Heating/Colder	Q <sub>HE</sub>	—	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	L <sub>WA</sub>	58/62	dB(A)
staged	N			Global warming potential	GWP	2087.5	kgCO <sub>2</sub> eq.
variable	Y			Rated air flow (indoor/outdoor)	—	740/2000	m <sup>3</sup> /h
Contact details for obtaining more information			<b>AS Wilfa</b> Industriveien 25, 1481 Hagan, Norway				

(\* ) For staged capacity units, two values divided by a slash ('/') will be declared in each box in the section 'Declared capacity of the unit' and 'declared EER/COP' of the unit.

(\*\* ) If default Cd = 0,25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.

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--