



Report NO.: [NTR20160404](#)

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<i>Test Report No.:</i>	NTR20160404		
<i>Applicant Name:</i>	AS Wilfa, Industriveien 25, Postboks 146, Hagan 1481 Hagan, Norge/Norway		
<i>Test item:</i>	Split Air Conditioner		
<i>Identification:</i>	Trysil 6500 Gulv	<i>Serial No.:</i>	Engineering sample
<i>Receipt No.:</i>	/	<i>Date of receipt:</i>	2016.11.10
<i>Test specification:</i>	NO 206/2012 NO 626/2011 EN 14825:2013 EN 14511-1,2,3,4:2013		
<i>Test Result:</i>	<i>The test items passed the test specification(s).</i>		
Abbreviations:	<i>P(ass) = passed</i> <i>F(ail) = failed</i> <i>N/A = not applicable</i> <i>N/T =not tested</i>		
<i>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.</i>			



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 Trysil 6500 Gulv as representative.			
4. The samples are engineering samples without serial numbers.			
Test item particulars :			
Class of temperature		T1	
Type		Split Air Conditioner	
Degree of protection		Indoor unit:IPX0 Outdoor unit:IP24	
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..... :		2016.11.10	
Date (s) of performance of tests..... :		2016.11.25-2016.11.30	
General remarks			
<ul style="list-style-type: none"> ➤ This appliance is split type air conditioner, which consist of one outdoor unit and one indoor unit. ➤ 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
Trysil 6500 Gulv	1GDY23AXD	FN30A-ZL	FW30J-ZL



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 load (Pdesignc): 3500 W; Tdesignc: 35°C					
Test item	Indoor DB/WB(°C)	Outdoor DB/WB(°C)	Ptest (W)	Tested EER	Cd
A	27/19	35/-	3519	3.23	0,25
B		30/-	2594	5.08	0,25
C		25/-	1681	8.14	0,25
D		20/-	1148	11.71	0,25
Psb= Poff = 3.38 W; Pck= 0 W; Pto= 5.69 W					
Test SEER				6.607	
Declared SEER				6.3	
Test SEER ≥ Declared SEER				Pass	
The calculation method of SEER according to the clause 6 of EN14825:2013					
Accordinging table 1 of NO 626/2011, the result efficiency classes: A++					

Calculation of SCOP in heating mode:

Full load (Pdesignh): 3500 W ;Tdesignh: -10°C; Climate: Average ; Tbivalent: -7 °C; TOL: -25 °C					
Test item	Indoor DB(°C)	Outdoor DB/WB(°C)	Ptest(W)	Tested COP	Cd
A	20/-	-7/-8	3107	2.43	0,25
B		2/1	1914	4.20	0,25
C		7/6	1264	5.75	0,25
D		12/11	960	7.07	0,25
E		TOL	2933	2.38	0,25
F		Tbivalent	3107	2.43	0.25
Psb= Poff = 3.38W; Pck= 0 W; Pto= 9.53 W					
SCOP				4.223	
Declared SCOP				4.0	
SCOP ≥ Declared SCOP				Pass	
The calculation method of SEER according to the clause 7 of EN14825:2013					
Accordinging 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

Full load (Pdesignh):4800W ;Tdesignh: -22°C; Climate: Colder ; Tbivalent: -10°C; TOL: -25°C					
Test item	Indoor DB(°C)	Outdoor DB/WB(°C)	Ptest(W)	Tested COP	Cd
A	20/-	-7/-8	3049	2.68	0,25
B		2/1	1848	3.98	0,25
C		7/6	1134	5.69	0,25
D		12/11	929	6.87	0,25
E		TOL	2399	1.85	0,25
F		Tbivalent	3071	2.48	0,25
G		-15/-	2619	2.24	0,25
Psb= Poff=3.38W; Pck= 0W; Pto=9.53W					
SCOP				3.212	
Declared SCOP				3.2	
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: B					



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	6.6	—
Heating/average	Pdesignh	3.5	kW	Heating/average	SCOP/A	4.2	—
Heating/warmer	Pdesignh	--	kW	Heating/warmer	SCOP/W	--	—
Heating/colder	Pdesignh	4.8	kW	Heating/colder	SCOP/C	3.2	—
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	3.52	kW	Tj=35°C	EERd	3.23	—
Tj=30°C	Pdc	2.59	kW	Tj=30°C	EERd	5.08	—
Tj=25°C	Pdc	1.68	kW	Tj=25°C	EERd	8.14	—
Tj=20°C	Pdc	1.15	kW	Tj=20°C	EERd	11.71	—
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	3.11	kW	Tj=-7°C	COPd	2.43	—
Tj=2°C	Pdh	1.91	kW	Tj=2°C	COPd	4.20	—
Tj=7°C	Pdh	1.26	kW	Tj=7°C	COPd	5.75	—
Tj=12°C	Pdh	0.96	kW	Tj=12°C	COPd	7.07	—
Tj=operating limit	Pdh	2.93	kW	Tj=operating limit	COPd	2.38	—
Tj=bivalent temperature	Pdh	3.11	kW	Tj=bivalent temperature	COPd	2.43	—



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=operating limit	Pdh	x,x	kW	Tj=operating limit	COPd	x,x	—
Tj=bivalent temperature	Pdh	x,x	kW	Tj=bivalent temperature	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	3.05	kW	Tj=-7°C	COPd	2.68	—
Tj=2°C	Pdh	1.85	kW	Tj=2°C	COPd	3.98	—
Tj=7°C	Pdh	1.13	kW	Tj=7°C	C-OPd	5.69	—
Tj=12°C	Pdh	0.93	kW	Tj=12°C	COPd	6.87	—
Tj=operating limit	Pdh	2.40	kW	Tj=operating limit	COPd	1.85	—
Tj=bivalent temperature	Pdh	3.07	kW	Tj=bivalent temperature	COPd	2.48	—
Tj=-15°C	Pdh	2.62	kW	Tj=-15°C	COPd	2.24	—
Bivalent temperature				Operating limit temperature			
Heating/Average	Tbiv	-7	°C	Heating/Average	Tol	-25	°C
Heating/Warmer	Tbiv	--	°C	Heating/Warmer	Tol	--	°C
Heating/Colder	Tbiv	-10	°C	Heating/Colder	Tol	-25	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	for cooling	EERcyc	x,x	—
for heating	Pcyh	x,x	kW	for heating	COPcyc	x,x	—
Degradation co-efficient cooling (**)	Cdc	x,x	—	Degradation co-efficient heating (**)	Cdh	x,x	—



NO 626/2011 &EN 14511 and NO 206/2012 & EN 14825: 2013			
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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
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0.00338	kW	Cooling	Q _{CE}	185	kWh/a
Standby mode	P _{SB}	0.00338	kW	Heating/Average	Q _{HE}	1160	kWh/a
Thermostat-off mode	P _{TO}	0.00569/0.00953	kW	Heating/Warmer	Q _{HE}	--	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating/Colder	Q _{HE}	3138	kWh/a

Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	L _{WA}	52/63	dB(A)
staged	N			Global warming potential	GWP	2087.5	kgCO ₂ eq.
variable	Y			Rated air flow (indoor/outdoor)	—	(600/1800)	m ³ /h

Contact details for obtaining more information	AS Wilfa, Industriveien 25, Postboks 146, Hagan 1481 Hagan, Norge/Norway
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(*) 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--