



ENERG

енергия · ενέργεια



SAMSUNG

AR12HSFSPWKN/AR12HSFSPWKX

SEER



A⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

kW 3,5

SEER 7,5

kWh/annum 163

SCOP



A⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

kW X 3,0

SCOP X 4,8

kWh/annum X 875

3,0

4,0

1575



58dB



62dB



ENERGIA · ЕНЕРГИЯ · ΕΝΕΡΓΕΙΑ · ENERGIJA · ENERGY · ENERGIE · ENERGI

626/2011

Energy Labeling Information(AC product)

According to Commission Regulation (EU) No 626/2011

Supplier's name	-	Samsung Electronics Co., Ltd.
Model name (Indoor/Outdoor)	-	AR12HSFSPWKN / AR12HSFSPWKX
Sound Power Level (Inside/Outside)	dBA	58/62
Refrigerant name ¹⁾	-	R-410a
GWP	-	2088
SEER		7,5
Energy efficiency class (SEER)	-	A++
Q _{CE} ²⁾ (cooling season)	kWh/a	163
P _{designc}	kW	3,5
SCOP	-	4,8
Energy efficiency class (SCOP)	-	A++
Q _{HE} ³⁾ (heating season)	kWh/a	875
Other heating seasons suitable for use	-	
P _{designh} (Average)	kW	3,0
Back up heating capacity(Average)	kW	0,0
Declared capacity(Average)	kW	3,0
P _{designh} (Warmer)	kW	-
Back up heating capacity (Warmer)	kW	-
Declared capacity (Warmer)	kW	-
P _{designh} (Colder)	kW	3,0
Back up heating capacity (Colder)	kW	0,0
Declared capacity (Colder)	kW	3,0

1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [2088]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [2088] times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

2) Energy consumption “XYZ” kWh per year, based on standard test results.

Actual energy consumption will depend on how the appliance is used and where it is located.

3) Energy consumption “XYZ” kWh per year, based on standard test results.

Actual energy consumption will depend on how the appliance is used and where it is located.

[Print](#)

ErP Information(AC Product)AR12HSFSPWKN / AR12HSFSPWKX

According to Commission Regulation (EU) No 206/2012

Function (indicate if present)

If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'

cooling	Y	Average	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	Y

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
Cooling	P _{design c}	3,5	kW	cooling	SEER	7,5	-
heating/Average	P _{design h}	3,0	kW	heating/Average	SCOP/A	4,8	-
heating/Warmer	P _{design h}	-	kW	heating/Warmer	SCOP/W	-	-
heating/Colder	P _{design h}	3,0	kW	heating/Colder	SCOP/C	4,0	-
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	P _{dc}	3,5	kW	Tj = 35 °C	EER _d	3,63	-
Tj = 30 °C	P _{dc}	2,5	kW	Tj = 30 °C	EER _d	5,4	-

Tj = 25 °C	Pdc	1,6	kW	Tj = 25 °C	EERd	9,0	-
Tj = 20 °C	Pdc	0,8	kW	Tj = 20 °C	EERd	15	-
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	2,7	kW	Tj = -7 °C	COPd	3,2	-
Tj = 2 °C	Pdh	1,7	kW	Tj = 2 °C	COPd	4,8	-
Tj = 7 °C	Pdh	1,1	kW	Tj = 7 °C	COPd	5,8	-
Tj = 12 °C	Pdh	0,9	kW	Tj = 12 °C	COPd	7,6	-
Tj = bivalent temperature	Pdh	3,0	kW	Tj = bivalent temperature	COPd	2,9	-
Tj = operating limit	Pdh	3,0	kW	Tj = operating limit	COPd	3,0	-
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	-	kW	Tj = 2 °C	COPd	-	-
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	-
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	-
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	-
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	-
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	1,9	kW	Tj = -7 °C	COPd	3,4	-
Tj = 2 °C	Pdh	1,2	kW	Tj = 2 °C	COPd	4,8	-
Tj = 7 °C	Pdh	0,7	kW	Tj = 7 °C	COPd	5,5	-
Tj = 12 °C	Pdh	0,8	kW	Tj = 12 °C	COPd	7,1	-
Tj = bivalent temperature	Pdh	3,0	kW	Tj = bivalent temperature	COPd	2,0	-
Tj = operating	Pdh	2,7	kW	Tj = operating	COPd	1,9	-

limit				limit			
T _j = -15 °C	P _{dh}	2,4	kW	T _j = -15 °C	COP _d	2,5	-
Bivalent temperature				Operating limit temperature			
heating/Average	T _{biv}	-10	°C	heating/Average	T _{ol}	-10	°C
heating/Warmer	T _{biv}	-	°C	heating/Warmer	T _{ol}	-	°C
heating/Colder	T _{biv}	-22	°C	heating/Colder	T _{ol}	-25	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	P _{cycc}	-	kW	for cooling	EER _{cyc}	-	-
for heating	P _{cyh}	-	kW	for heating	COP _{cyc}	-	-
Degradation co-efficient cooling(**)	C _{dc}	0,25	kW	Degradation co-efficient heating(**)	C _{dh}	0,25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	P _{OFF}	0,0	kW	cooling	Q _{CE}	163	kWh/a
standby mode	P _{SB}	0,0	kW	heating/Average	Q _{HE}	875	kWh/a
thermostat-off mode	P _{TO}	0,0	kW	heating/Warmer	Q _{HE}	-	kWh/a
crankcase heater mode	P _{CK}	0,0	kW	heating/Colder	Q _{HE}	1575	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	LWA	58/62	dB(A)
staged	N			Global warming potential	GWP	2088	kgCO ₂ eq.
variable	Y			Rated air flow (indoor/outdoor)	-	660/1920	m ³ /h

Contact details
for
obtaining more
information

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