

AR35

- Display included
- Available only as Monosplit



Model	Internal unit External unit	Measurement Unit	AR09TXHQASINEU AR09TXHQASIXEU	AR12TXHQASINEU AR12TXHQASIXEU	AR18TXHQASINEU AR18TXHQASIXEU	AR24TXHQASINEU AR24TXHQASIXEU
EAN	Internal Unit External Unit		8806090250392 8806090250408	8806090250439 8806090250446	8806090250477 8806090250484	8806090250514 8806090250521
Set Name			F-AR09ART	F-AR12ART	F-AR18ART	F-AR24ART
EAN Set			8806090379062	8806090379079	8806090379086	8806090379093
COOLING	Capacity (Min/Std/Max) ⁽²⁾	kW	0.91/2.64/3.4	1.11/3.52/4.16	1.82/5.28/6.12	2.08/7.03/7.95
	Capacity	Btu/hr	9000	12000	18000	24000
	Std Absorption ⁽²⁾	W	770	1213	1539	2450
	SEER: Seasonal Energy Efficiency		6,3	6,1	7,1	6,1
	Seasonal Energy Efficiency Classification		A++	A++	A++	A++
	EER	W/W	3.43	2.90	3.43	2.87
	Theoretical thermal load (Pdesignc) ⁽³⁾	kW	2.8	3.6	5.2	7
	Indicative annual energy consumption ⁽⁴⁾ (Q ^{co})	kWh/a	156	211	256	412
HEATING SEASON AVERAGE	Capacity (Min/Std/Max) ⁽²⁾	kW	0.82/2.93/3.37	1.08/3.81/4.22	1.38/5.28/6.74	1.61/7.33/8.79
	Capacity	Btu/hr	10000	13000	18000	25000
	Std Absorption ⁽²⁾	W	750	1088	1480	2700
	SCOP: Seasonal Energy Efficiency		4.0	3.9	4.0	3.9
	Seasonal Energy Efficiency Classification		A+	A	A+	A
	COP		3.91	3.5	3.56	2.71
	Theoretical thermal load (Pdesignh) ⁽⁵⁾	kW	2.6	2.7	4.1	4.8
	Security elerical thermal power elbu(Tj)	kW	2.6	2.7	4.1	4.8
	Declared capacity	kW	2	2	4	4.6
INTERNAL UNIT	Indicative annual energy consumption ⁽⁶⁾ (Q ^{he})	kWh/a	910	969	1435	1723
	Compatibility with FJM	✓ / x	x	x	x	x
	Dimensions (WxHxD)	mm	805x285x194	805x285x194	957x302x213	1040x327x220
	Weight	Kg	8.1	8.1	10.5	12.5
	Treated Air (Max)	m³/min	7.8	9.0	14.0	16.3
	Dehumidification capacity	l/hr	1.0	1.2	1.8	2.6
	Noise pressure level (Min~Max) ⁽²⁾	dBA	20 / 36	22 / 37	26 / 42	26 / 43
	Noise level loudness	dBA	55	55	55	59
EXTERNAL UNIT	Dimensions (WxHxD)	mm	720x495x270	720x495x270	800x554x333	845x702x363
	Weight	Kg	23.2	23.2	34.0	52.0
	Noise pressure level	dBA	49	50	51	56
	Noise level loudness	dBA	62	65	63	67.5
	Alimentazione	Ø, v, hz	Single phase, 220-240, 50	Single phase, 220-240, 50	Single phase, 220-240, 50	Single phase, 220-240, 50
	Operational range (Cooling)	°C	-10~46	-10~46	-10~46	-10~46
	Operational range (Heating)	°C	-15~24	-15~24	-15~24	-15~24
INSTALLATION DATA	Gas / Liquid tubing	Ø mm (inch)	6.35 (1/4") 9.52 (3/8")	6.35 (1/4") 9.52 (3/8")	6.35 (1/4") 12.7 (1/2")	6.35 (1/4") 15.88 (5/8")
	Tubing length Max/Min	m	25 / 3	25 / 3	30 / 3	50 / 3
	Level difference (Internal unit/external unit)	m	10	10	20	25
	Factory pre-loading	Kg	0.55	0.55	1.00	1.60
	Value tCO ₂ e	tCO ₂ e	0.37	0.37	0.68	1.08
	Max. tubing length without refrigerant top-up	m	5	5	5	5
	Additional refrigerant top-up	g/m	12	12	12	12
REFRIGERANT	Refrigerant type ⁽⁷⁾		R32	R32	R32	R32
	GWP: Global warming potential of refrigerant utilised ⁽⁸⁾		675	675	675	675

Effective consumption depends on mode of appliance utilisation and surrounding where it is installed.

4) Energy consumption
156 kWh/year based on
standard test results.
6) Energy consumption
910 kWh/year based on
standard test results.

4) Energy consumption
211 kWh/year based on
standard test results.
6) Energy consumption
969 kWh/year based on
standard test results.

4) Energy consumption
256 kWh/year based on
standard test results.
6) Energy consumption
1435 kWh/year based on
standard test results.

4) Energy consumption
412 kWh/year based on
standard test results.
6) Energy consumption
1723 kWh/year based on
standard test results.

2) Test conditions (cooling): internal temperature 27°C (dry bulb) / 19°C (humid bulb); external temperature 35°C (dry bulb) / 24°C (humid bulb).
Test conditions (heating): internal temperature 20°C (dry bulb) / 15°C (humid bulb); external temperature 7°C (dry bulb) / 6°C (humid bulb).

3) Pdesignc = Theoretical thermal load during cooling measured with external temperatures equivalent to 35°C (dry bulb)/24°C (humid bulb) and internal temperature equivalent to 27°C (dry bulb)/19°C (humid bulb).

5) Pdesignh = Theoretical thermal load during heating measured with external temperatures equivalent to -10°C (dry bulb)/-11°C (humid bulb) and internal temperature equivalent to 20°C (dry bulb)/15°C (humid bulb).

7) Loss of refrigerant will contribute to climate change. In the eventuality of release in the atmosphere, the refrigerants with lower Global Warming Potential (GWP) will contribute less to global warming compared to those with a higher GWP. This appliance contains refrigerant fluid with a GWP of 675. If 1 kg of this refrigerant fluid is released in the atmosphere, the impact on global warming will be 675 times higher compared to 1 kg of CO₂, for a period of 100 years.

Under no circumstance the user must attempt to intervene on the refrigeration circuit or dismantle this product. Always refer to a qualified professional.

8) Samsung air conditioners contain Fluorinated Gas with with green house effect R32. GWP = 675

SAMSUNG

Climate Solutions

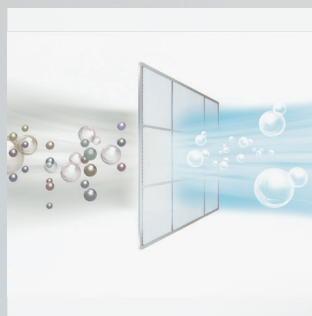
AR35



Fast Cooling



The **Fast Cooling** mode, will **rapidly cool down** the ambience until the desired temperature is reached.



HD Filter



The **latest generation HD filter** is has a special anti-bacterial, anti-allergen and anti-virus coating which contributes to a **healthier air**.

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