

SAMSUNG ELECTRONICS Co.



RAC Lineup 2011

T-Series (BORACAY)



BORACAY



Basic Information

CONCEPT	Standard Model
CAPACITY	9K, 12K, 18K & 24K BTU
Launched in	2011

Major Unique Benefits of SAMSUNG

	The Concept Appealing Design to all consumers
FULL HD FILTER	Anti-virus Filter Full High density anti-virus filters
	Triple Protectors Quality Protection
	Good Sleep II Cooling mode + Heating mode
	Smart Saver cool and saves electricity consumption

The Concept

Better Durability...



...Healthy Air



| Emotionally Connected

| With its...

Soft Blended



Blooming Surface



Slim Solution

Compact Size

Samsung's advanced Technology helped to Develop new Air Conditioners With compact size while Keeping the same Performance.

The overall size was reduced by at least 12%, so you will be amazed at the usable space application and more installation convenience.



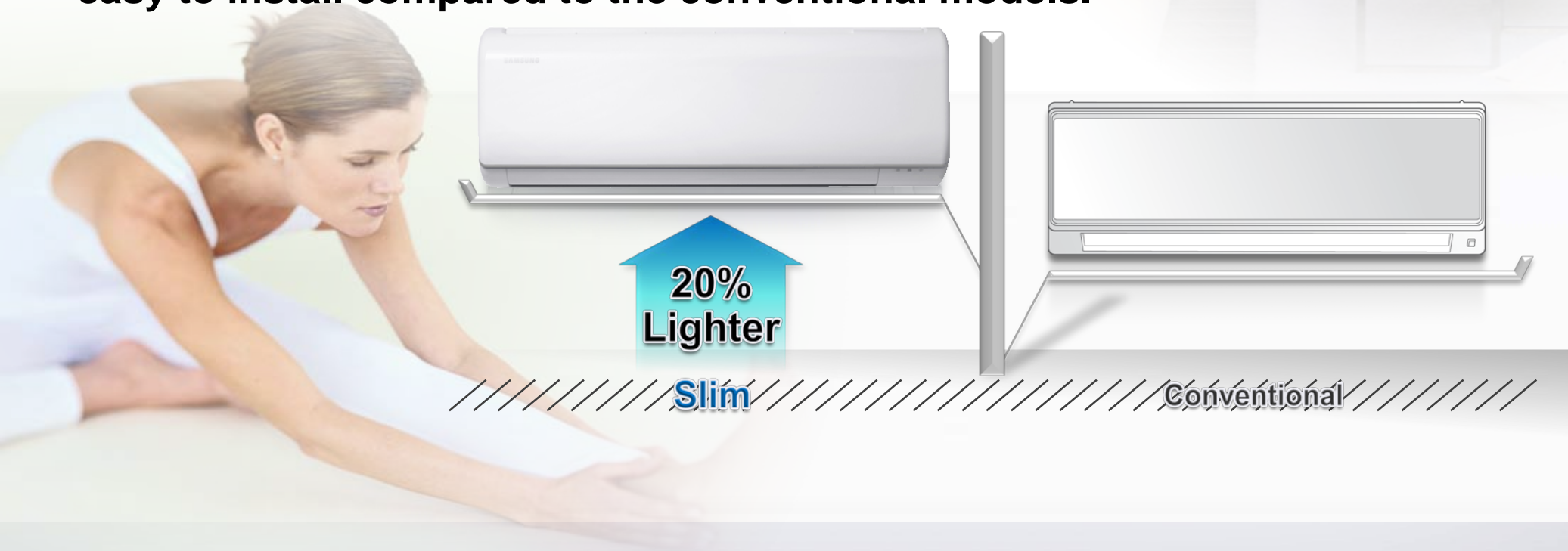
Slim
Solution

Slim Solution

Light Weight

The application of Samsung's slim solution provide air conditioners not only with compact size but also with light weight.

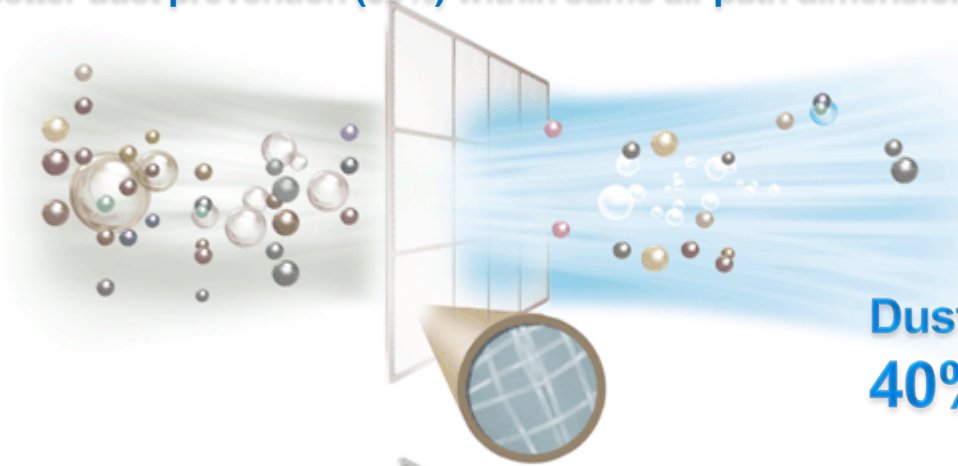
The compact size air conditioners are lighter and easy to install compared to the conventional models.



Full HD (Anti Virus Filter)

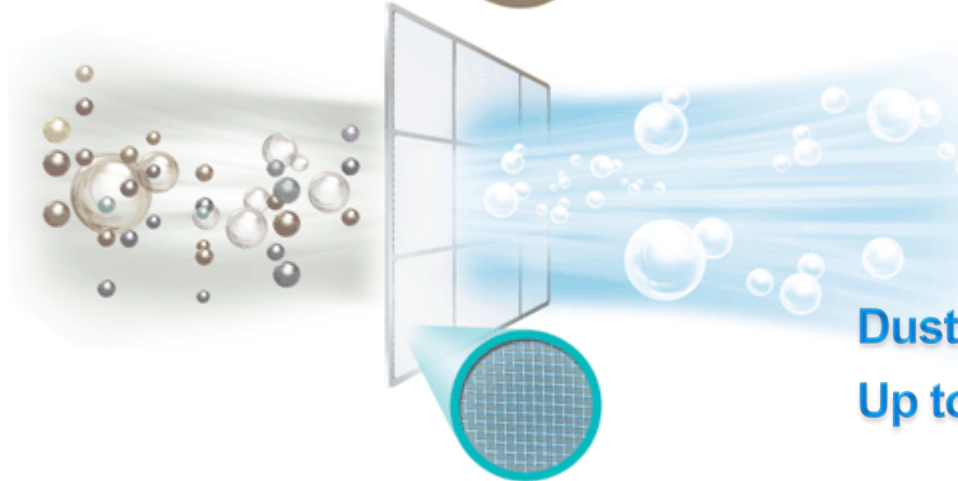
- Full HD Filter – Desert Filter
- World Highest density filter in Standard Segment
- Full HD Filter has better dust prevention (80%) within same air path dimensions.

Conventional



Dust Collection
40%

FULL **HD** FILTER



Dust Collection
Up to... **80%**

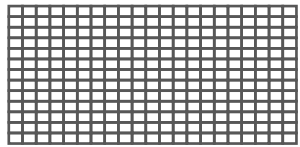
**Two Times
Better!**

Full HD (Anti Virus Filter)

• Comparison

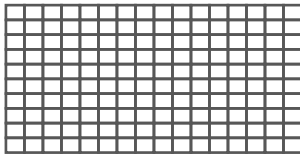
- High Density filter with thin filament diameter
- Better dust prevention performance

Full HD Filter



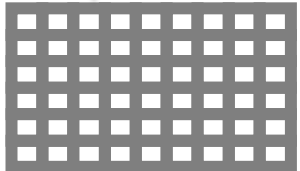
298 μm

Full HD filter


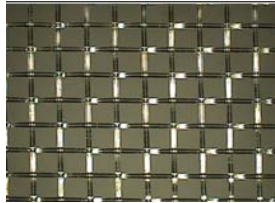
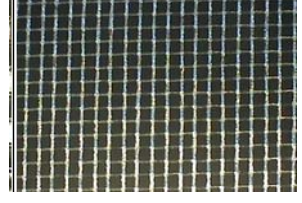

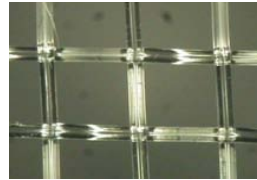
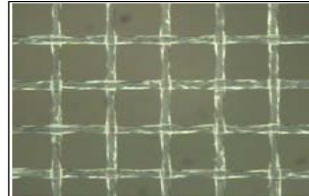


549 μm

Competitor Filter



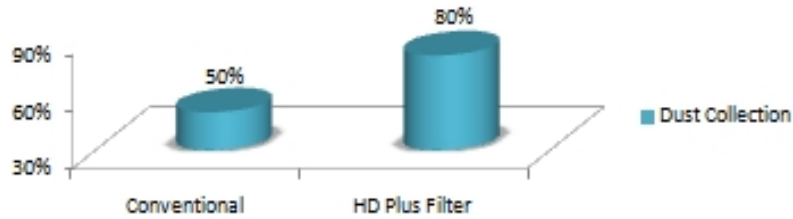
916 μm

	Conventional	HD Filter	FULL HD FILTER
×40			
×150			
Filament Dia. (μm)	211	134	69
Gap (μm)	1200 x 700 (100%)	563 x 536 (36%)	309 x 288 (11%)
Dust collection	40%	60%	80%
Feature	Anti-Bacteria		Anti Virus

Full HD (Anti Virus Filter)

• Performance Test

- Measuring the amount of dust passing the filter within mixture of dust and oil mist state.
- Better dust collection compared with conventional



X 1

X 40

Conventional

FULL HD FILTER

Conventional

FULL HD FILTER



Triple Protector

Operation & Algorithm

• Engine Protector (UTR Compressor)

Samsung's distinctive engine protector prevents the compressor from being overloaded by heat in severely hot weather or unstable electricity circumstances.

• Volt Control

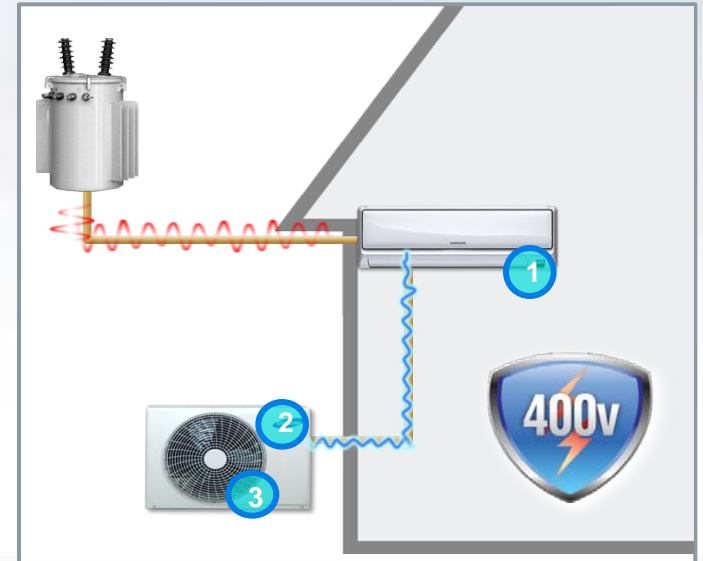
1. Control Board: Strengthened PCB Design.
2. Comp. Capacitor: Powerful Comp. Capacitor
3. Comp. Motor: Stronger Comp. motor Wire

• Anti Corrosion Fin

The Anti-Corrosion Fin Condenser is designed with strong corrosion-resistant material to protect itself from rusting.

This smart fin strongly protects the condenser from corrosion to give you cool clean air without worries of wear.

Stay comfortable all the time with Samsung's long-lasting air conditioner.



Samsung's Anti Corrosion



Conventional

Triple Protector

			Samsung		X	Remark
			Old	Current	Current	
Triple Protector 	“Engine” Protector 	187V↑	140V↑	170V↑	Stronger than X on quality	
	“ VOLT ” Control 	160-280V	120-400V	-		
	“ Fin ” Protector 	[H/P] Corrosion Resistance 9.8	[H/P&C/O] Resistance 9.8	Corrosion Resistance 9.5		

Benefit

- Sustain best performance in very hot weather
- Stable operation even in electronic instability
- Resist against the salinity contamination

UTR Plus Compressor



Samsung's Powerful UTR Plus™ for Rapid Cooling

Samsung developed the UTR(Ultra Tropical Rotary) Plus™ compressor featuring incredible power that can quickly cool even under severe climate.

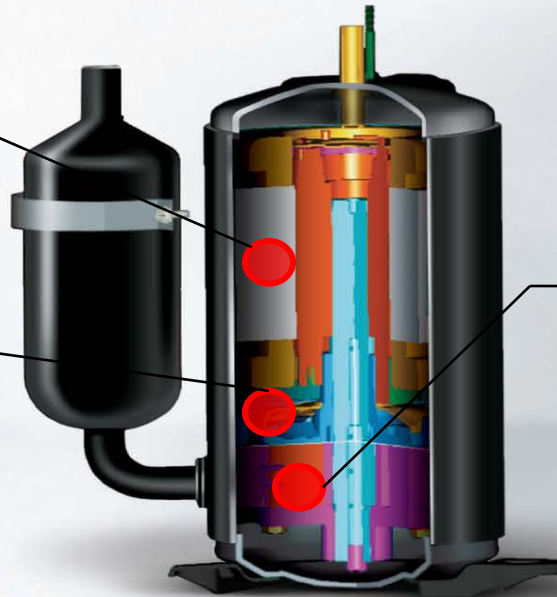
The UTR Plus™ has the reliability to maintain the superb Performance even under severe temperatures of up to about 60°C/140°F for a long time.

High Torque Motor

- Increased maximum Torque
- Increased starting Torque for low voltage start

Low Noise Parts

- Valve Stopper Improvement
- Indication Muffler Structure



High Reliability Mechanical Parts

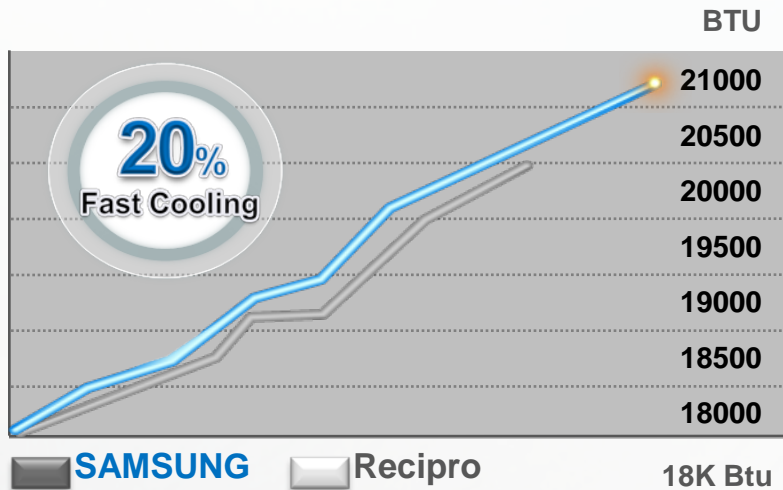
- Fixed Upper Bearing
- Special Coated Shaft & Vane
- Internal OLP for High Sensitivity

UTR Plus Compressor

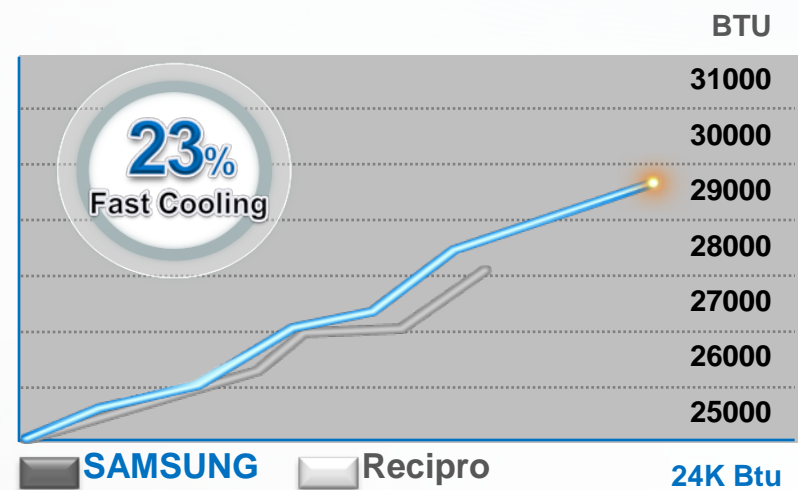
Performance Comparison

Even under extreme temperatures, customers can rely on their air conditioner's performance to provide quick cooling.

Increased



Power



Good Sleep II



Optimal temperatures for good sleep!

Samsung's Good Sleep II ensures your environment stays at the most comfortable temperature with automatic moisture adjustment to guarantee a good night's sleep.

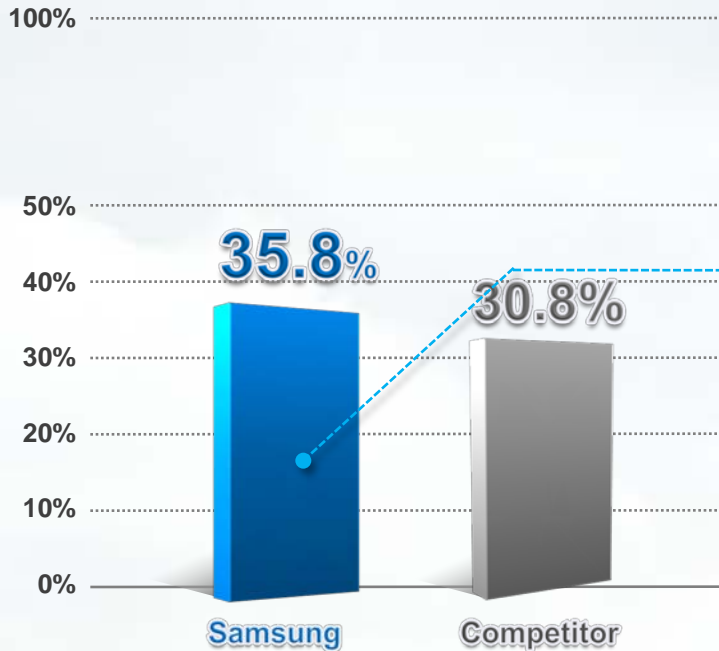


Good Sleep II

Sleep efficiency

The Good'sleep II increases the sleep efficiency compared with competitors

Conducted by National Bukyung Univ.
Test results for cooling mode.



* Operation : 8hrs

Up to **5%**



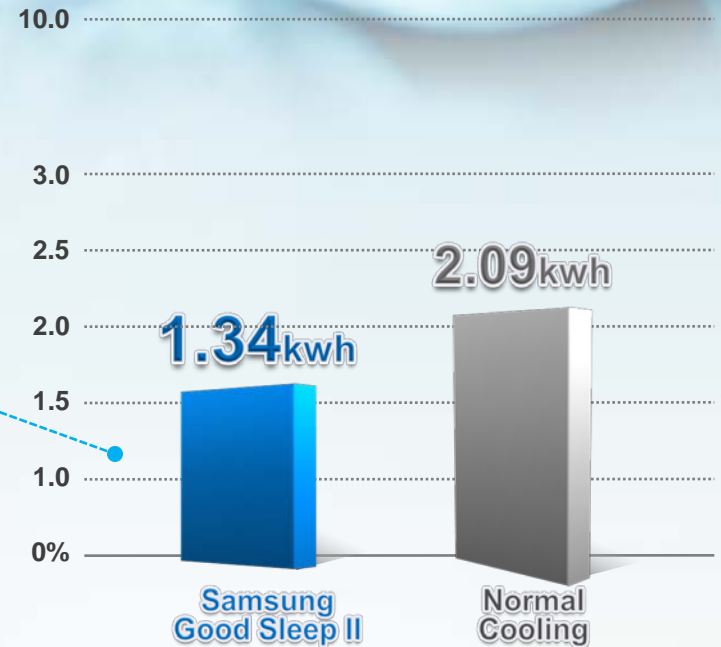
Good Sleep II

Energy Saving

The Good Sleep II reduces up to 36% of electricity consumption compared with a normal cooling mode.

Temperature : 30°C
Temperature Inside : 26°C
Test results for cooling mode.

36%
Energy
Saving

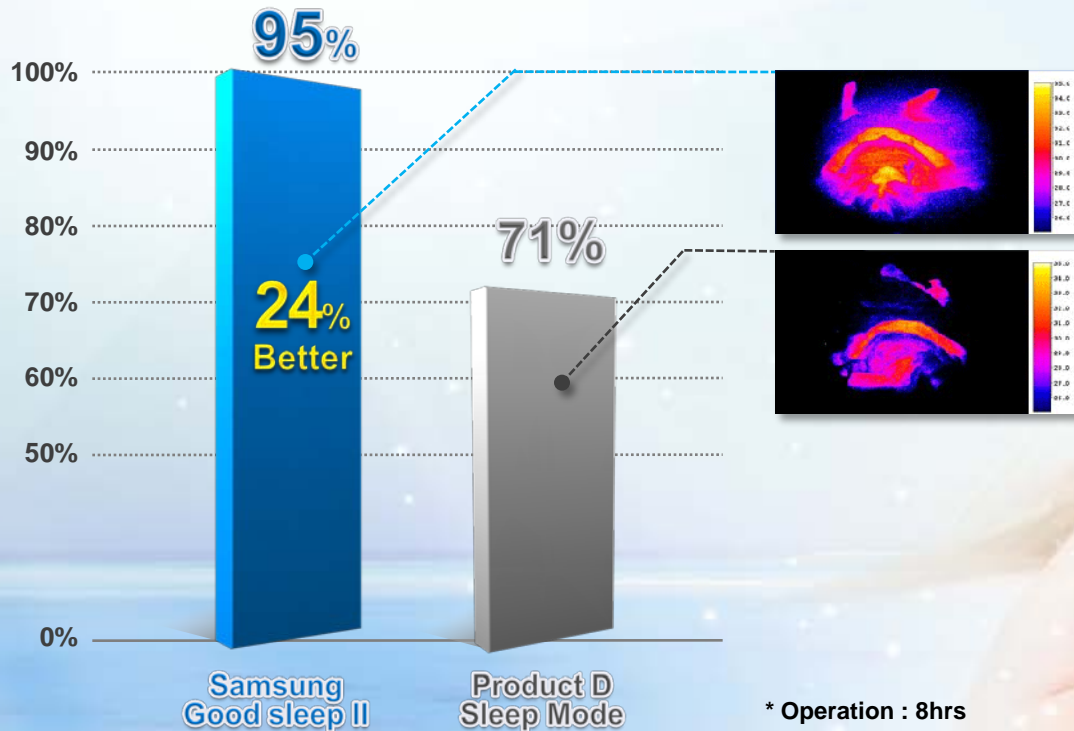


Good Sleep II

Pleasant Skin Temperature

The Good Sleep II keeps your skin comfortable throughout the night with precise temperature control.

MST(Mean Skin Temperature) : 34.5°C ~ 35.5 °C
Conducted by Bukyung national Univ. Test results for cooling mode.

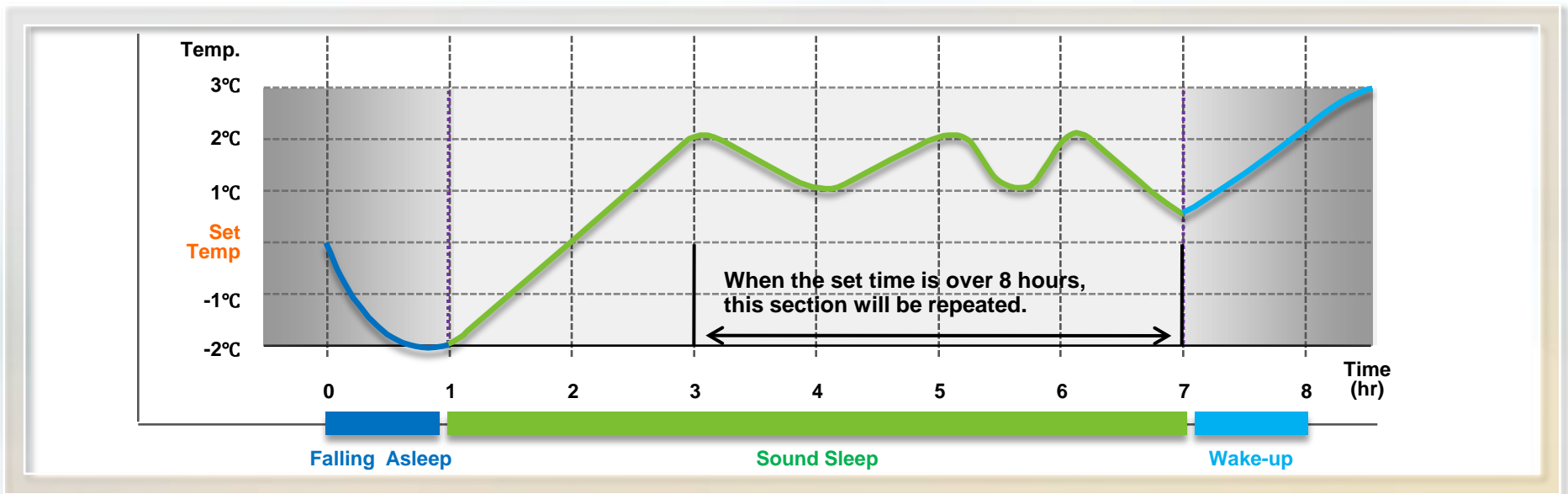


Good Sleep II

Best Temperature for deep sleep

Cooling Mode

- **Falling asleep stage**
Eases you into sleep by dropping the temperature.
- **Sound Sleep stage**
Relaxes your body and raises your temperature slightly.
- **Wake-up stage**
Allows you to wake up from comfortable intermittent air and it makes you feel refresh.

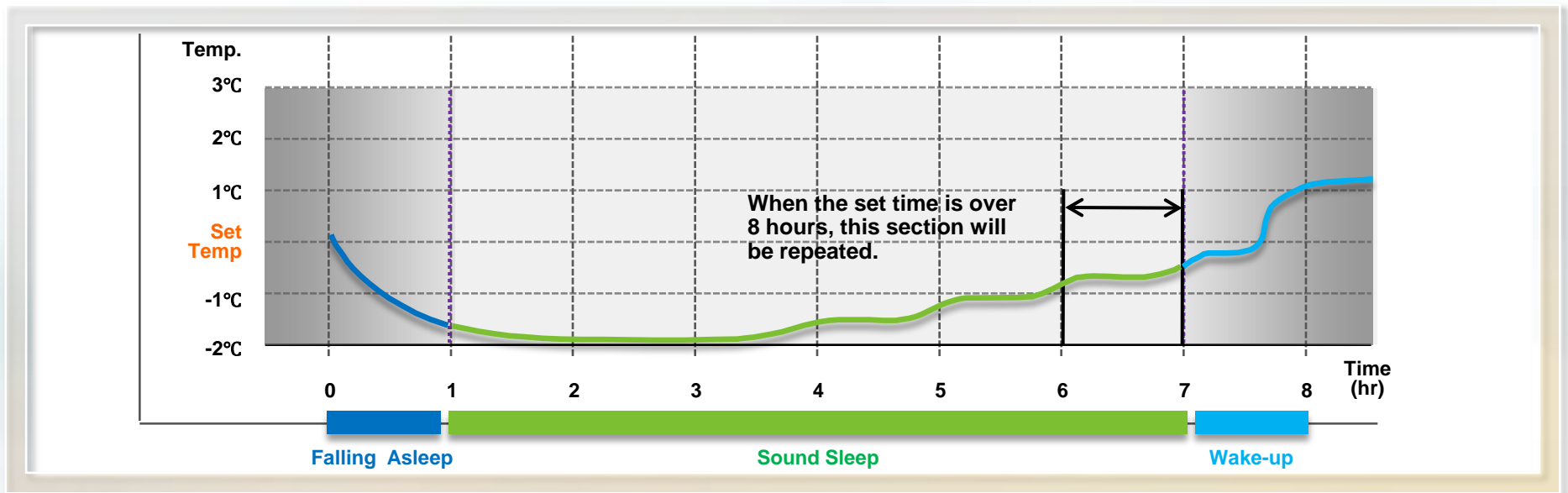


Good Sleep II

Best Temperature for deep sleep

Heating Mode

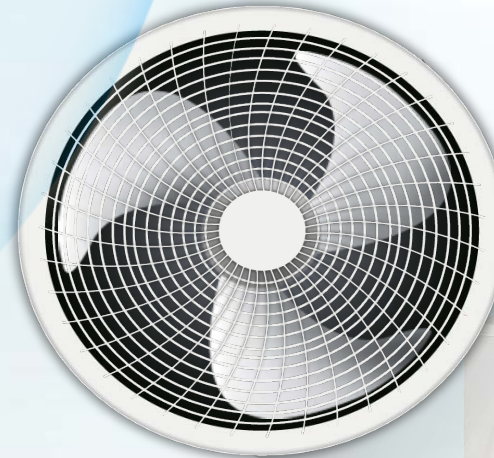
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Smart Saver

You don't need to repeat switching on and off your air conditioner to save electricity!

Smart Saver makes your air conditioner operate for minimum time keeping your room air reasonably cool and saves electricity consumption.



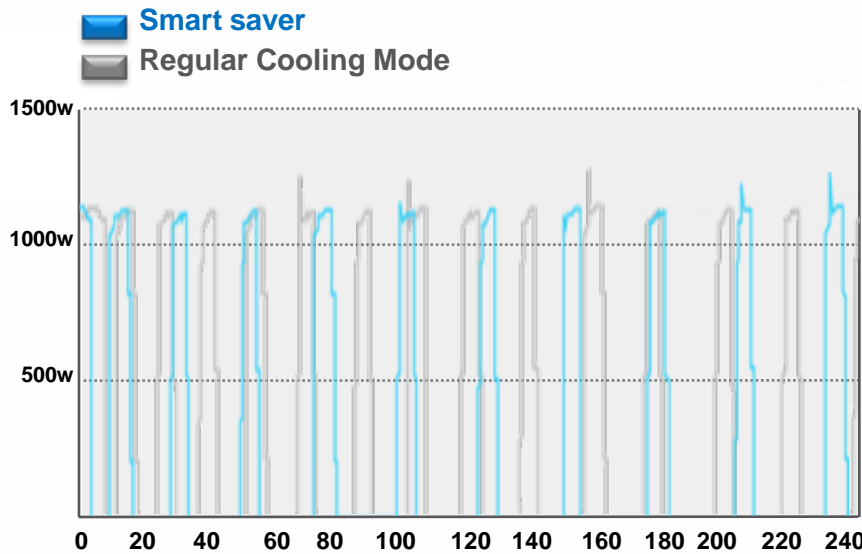
Smart Saver

Save up to 31% on your electricity bill with the Smart Saver!

Smart Saver operates the air conditioner automatically in the least amount of time necessary to cool the room, which saves electricity. In studies, up to 31% of electricity was saved by setting the temperature to 26°C when the outdoor temperature was 30°C.

SAMSUNG

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※ Outdoor Temperature at 30 degree

	Settling the temperature	Mode	Power Consumption (4hr)	Power Saving Rate (Compared to regularair Mode)
Boracay (12K)	26°C	Regular Mode	1778	-
		Smart Saver	1230	30.8%
	24°C	Regular Mode	2201	-
		Smart Saver	1930	12.3%

Use Smart Saver

- When you repeatedly turn on and off the air conditioner to stay cool because you want to save energy.
- When you don't want to waste energy cooling an empty or near empty room.
- When it's not unbearably hot, but it's still uncomfortable, so you debate turning on the air conditioner.

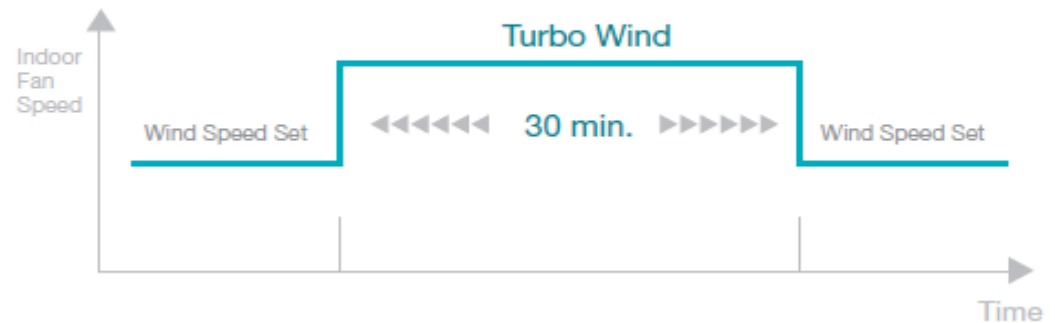
Turbo Cooling

Samsung's new air conditioner operates in its maximum speed in Turbo mode to quickly reach the set temperature.

Instantly cool down your space with Samsung's Turbo Cooling technology.

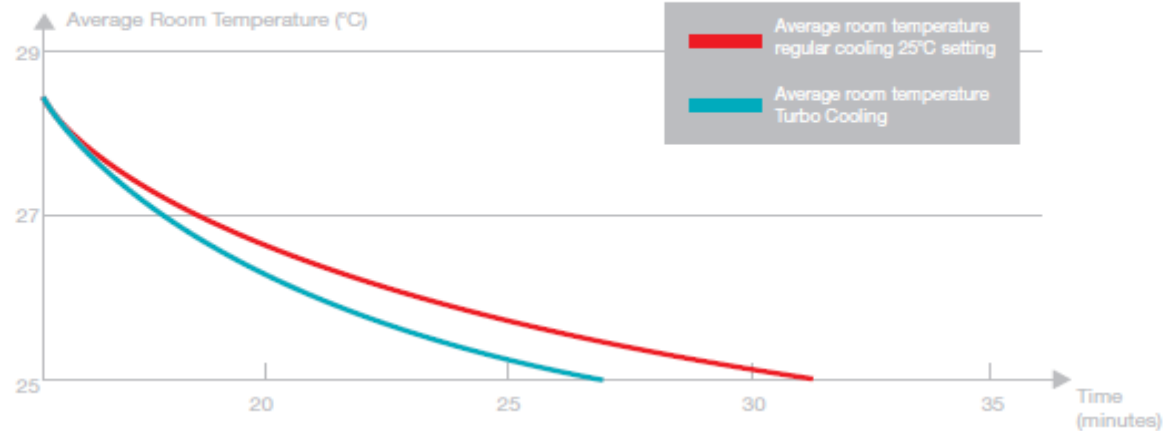
Maximum Cooling!

When you enter your home or office after returning from the sweltering heat outside, you want immediate cool relief. When you turn on the air conditioner in Turbo Cooling mode, the compressor fan operates in its maximum speed for 30 minutes to cool down your space quickly.



Cool down faster than ever

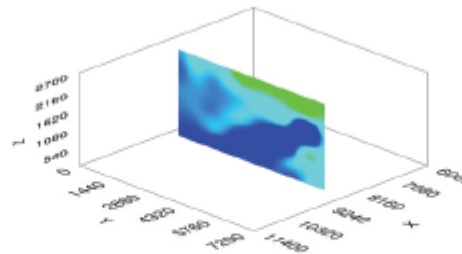
Compared to normal operation mode, Turbo Cooling mode cools down the space 15% faster. When you need instant cooling, Samsung air conditioner's Turbo Cooling mode is the perfect answer.



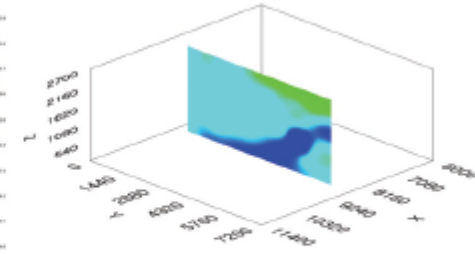
Turbo Cooling

Even Cooling

As you can see in the distribution table, Samsung's cool air evenly distributes throughout your room quicker than just regular cooling. Enjoy the comfortable cooling provided by Samsung air conditioner.



Turbo Cooling
Instant cooling brings quicker and better comfort.



Regular Cooling
The room is cooling slowly which makes you uncomfortable.

* More blue color means better cooling operation.

Comparison with Competitors

Benefit

Manufacturer	Feature	Method
Samsung	Turbo Cooling	<ul style="list-style-type: none"> • 30Minutes working time • Maximum Fan(Comp) working
Panasonic	Power Cooling	<ul style="list-style-type: none"> • 20Minutes working time • Change the setting temp.
X	Jet Cooling	<ul style="list-style-type: none"> • 30minutes working time • High Fan speed (set temp 18') Comp normal working

Faster Cooling & Heating To the desired Set Point Better than any Competitor.

Extended Features

Auto Cleaning



AC off

The difference in internal and external temperatures causes moisture to form

Wind dry

After it has been turned off, The unit automatically runs the fan to dry

Clean heat exchanger

The unit stays clean and dry And protects against bacteria and mildew growth

Auto Changeover

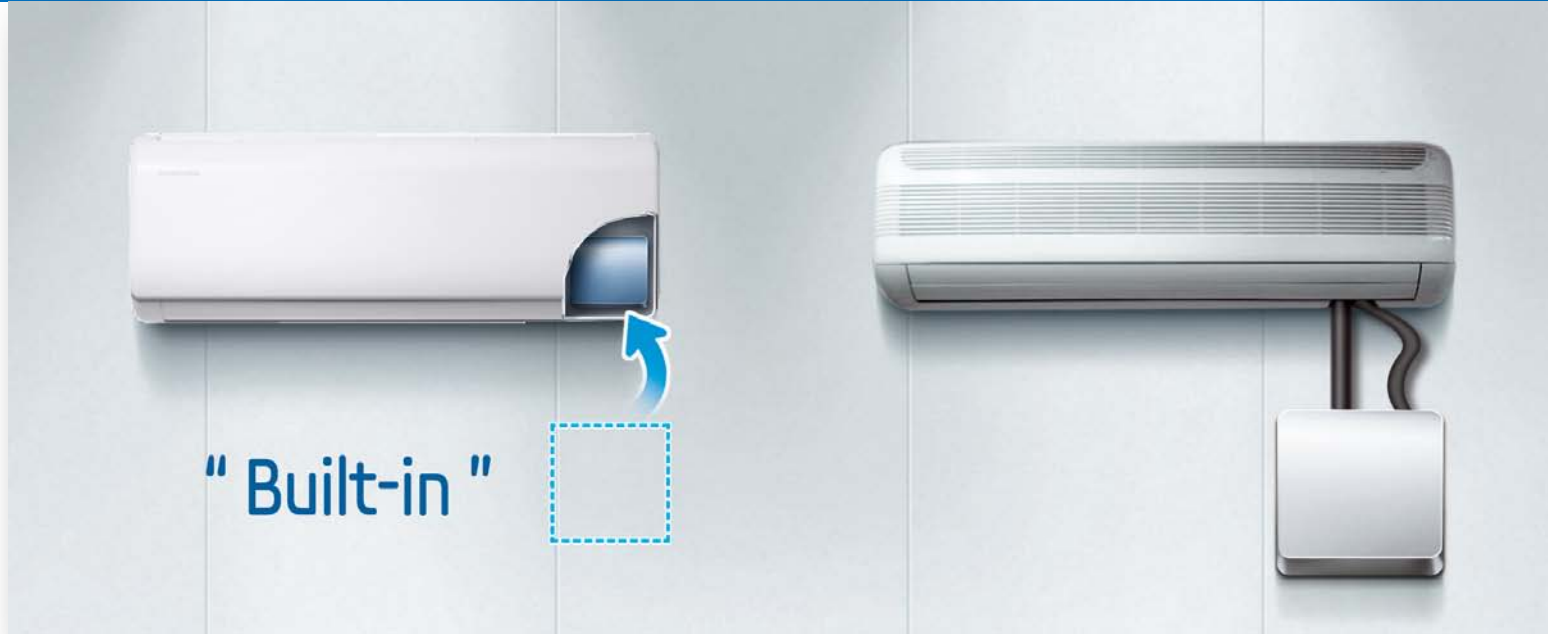


The Auto Changeover automatically selects the operating mode (Cooling or Heating) according to the temperature setting.

Thus, when a temperature is selected in the auto mode, the air conditioner heats and cools as required to maintain the set temperature.

Extended Features

Stabilizer-Free Operation



Samsung's air conditioner with built-in stabilizer lets you have cool fresh air without sacrificing interior style. With the Stabilizer-Free Operation, never worry about power failures while keeping your room looking good.



BORACAY

Specifications

Refrigerant Type			R22	R22	R22	R22
Power Source			220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1
Model Code			AQ09TSLXSG	AQ12TSLXSG	AQ18TSLXSG	AQ24TSLXSG
Performance						
Capacity	Cooling	Btu/hr.	9,000	12,000	18,000	23,200
		kW	2.6	3.5	5.3	6.8
	Heating	Btu/hr.	9,800	13,000	19,500	24,500
		kW	2.9	3.8	5.7	7.2
Energy Efficiency	Cooling	EER(W/W)	2.65	2.79	2.78	2.72
	Heating	COP(W/W)	2.93	3.28	3.01	2.71
Noise Level	Indoor High/Low	dB	32/24	35/26	40/31	42/33
	Outdoor High	dB	48	50	52	54
Dimension						
Net Dimension (WxHxD)	Indoor	mm	728*255*185	820*285*210	890*285*210	1065*298*225
	Outdoor	mm	660*470*240	660*470*240	790*548*285	790*548*285
Features						
Health Care System	Full HD Virus Filter		●	●	●	●
	Anti-bacteria Coating		●	●	●	●
	Auto Clean		●	●	●	●
Convenience	Good Sleep II		●	●	●	●
	Smart Saver		●	●	●	●
	Turbo Cooling		●	●	●	●
	Natural Breeze		●	●	●	●
	Auto Changeover		●	●	●	●
	24-Hour Timer		●	●	●	●
	Triple Protector	UTR Plus Comp.		●	●	●
	Anti-Corrosion Fin		●	●	●	●
	Stabalizer Free		●	●	●	●
Low Ambient	Cooling (°C)	15~60	●	●	●	●
	Heating (°C)	-5~24	●	●	●	●

* Specification of the real product can be different from the above.

THANK YOU

