System Air Conditioner
Wind-Free™ 1Way Cassette

Contents

System Air Conditioner
Wind-Free™ 1Way Cassette

01

Key Features

0927602147172121333

Key Features

SAMSUNG

" New concept of AC keeps air cool, without unpleasant cold draft "

01
Stay cool, but no cold draft
Wind-Free™ Cooling

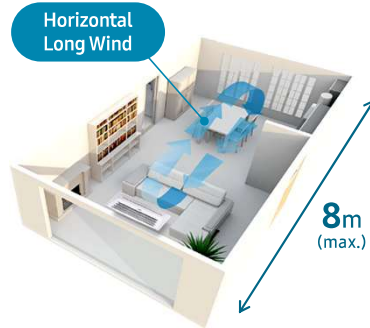Wind-Free™ Cooling no cold draft

Micro Holes

Wind-Free™ technology keeps the place **cool & comfortable**, without feeling cold draft

※ ASHRAE defines Still-Air as a wind that flows under 0.15m/s, without cold draft

02
Faster cooling in wide area
Big Blade, Long Wind

Horizontal Long Wind

8m (max.)

Wider and bigger blade cools large area much **faster**, without leaving dead zone

※ Base on 7.1kW indoor unit

03
Wind-Free™ Operation
Cost, Energy Saving

COST EFFICIENT

Wind-Free™ Cooling allows **efficient energy saving up to 55%**

SAMSUNG

01. Stay cool, but no cold draft **Wind–Free™ Cooling**

Fast Cooling, Wind–Free™ Cooling

Micro Holes

Wind–Free™ Cooling
no cold draft

❯ **Fast Cooling, air conditioning becomes faster**
: Wind–Free™ 1 Way Cassette cools the air rapidly and evenly using Big blade

❯ **Wind–Free™ Cooling, air conditioning becomes more comfortable**
: Wind–Free™ Cooling keeps temperature comfortable for more than 8 hours.
   Under same condition, can save energy use by 55% compared to conventional cooling

Fast
Cooling

Wind–Free™ Cooling

- **Micro holes enable Wind–Free™ Cooling, without cold draft**

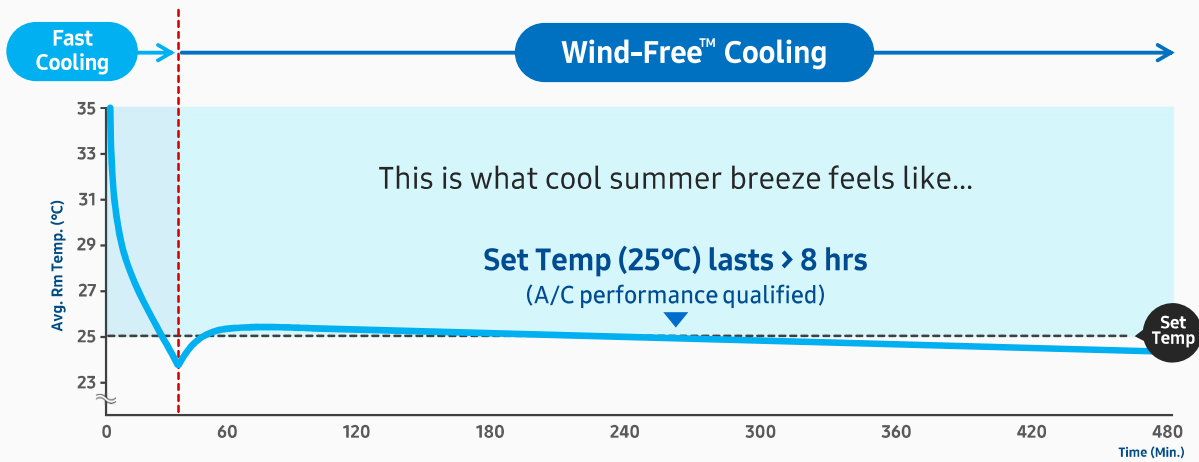 Can keep the temperature comfortable for more than **8 hours**, and save energy use by **55%**

Avg. Rm Temp. (°C)

This is what cool summer breeze feels like…

Set Temp (25°C) lasts > 8 hrs
(A/C performance qualified)

Set
Temp

35
33
31
29
27
25
23

0   60   120   180   240   300   360   420   480

Time (Min.)

※ Suitable Temperature (Test Standard by SEC) : 7.1kW model, outside temp 35°C (A/C Standard), 39.67㎡ area
※ Electricity Use : ODU (DVM S ECO 5HP), IDU (Wind–Free™ 1Way 5.6kW, 3.6kW, 2.2kW simultaneous run).
                     Cooling Standard (Out 35°C DB / 24°C WB, In 27°C DB / 19°C WB).

SAMSUNG

# 01. Stay cool, but no cold draft **Wind–Free™ Cooling**

Even Cooling in All Area

Wind–Free™ Cooling no cold draft

Wind–Free™ 1Way

Micro Holes

Same even temperature throughout all area

- Air Temp : **24.9℃**
- Sensory   : **24.9℃**

Temp Diff 0.2℃

- Air Temp : **25.1℃**
- Sensory   : **25.1℃**

1.5m

4m

Conventional 1Way

Temperature different by people's location

- Air Temp : **25.4℃**
- Sensory   : **24.2℃**

Temp Diff 6.0℃

- Air Temp : **23.1℃**
- Sensory   : **18.2℃**

1.5m

4m

※ Floor Height 1.1m

● **Micro holes enable Wind–Free™ Cooling, without cold draft**

Wind–Free™ Cooling keeps the temperature inside **all evenly**

※ ASHRAE defines Still–Air as a wind that flows under 0.15m/s, without cold draft
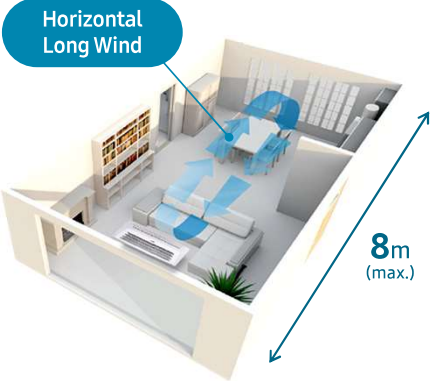
SAMSUNG
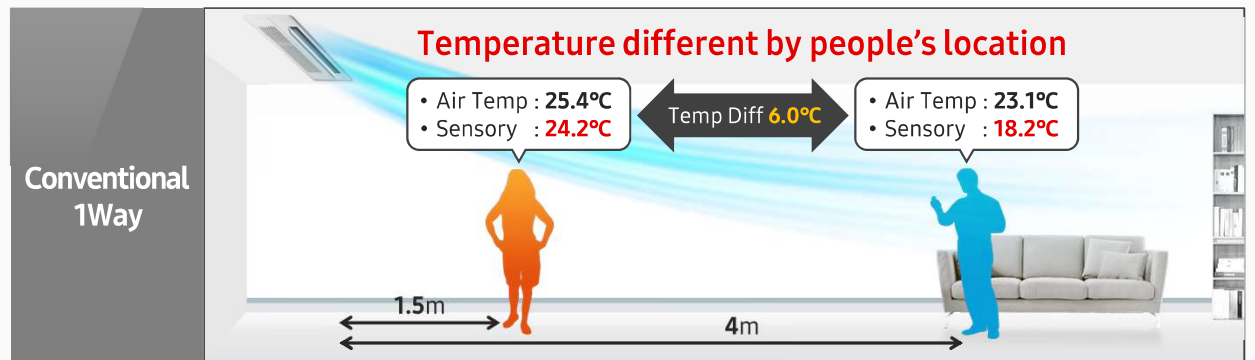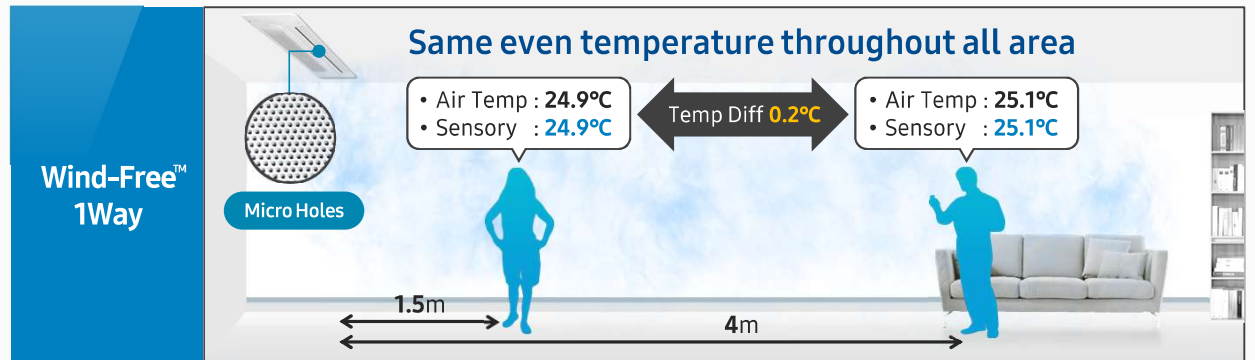
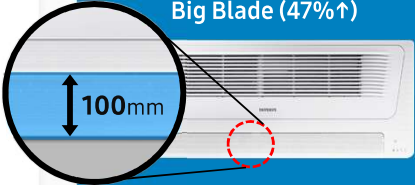# 02. Faster cooling in wide area **Big Blade, Long Wind**

Increased Cooling Range

Horizontal Long Wind

8m (max.)

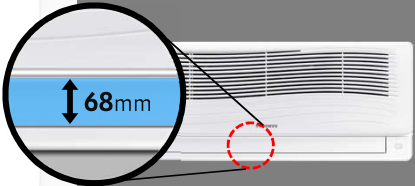- Can deliver cool air up to **8m** with **wider operating angle**, along with rapid and even cooling

※ 8m, range based on 7.1kW large model

Wind-Free™ 1Way

Big Blade (47%↑)

100mm

Cooling area 8m

Conventional 1Way

68mm

Narrow **5m**

※ horizontal wind range : sitting ht. 0.6m, Wind speed 0.3 m/s, 7.1kW model

SAMSUNG

03. Wind–Free™ Operation **Cost, Energy Saving**

Energy Saving with Wind–Free™ Operation

Wind–Free™ Cooling

COST EFFECTIVE

- **Wind–Free™ Cooling allows efficient energy saving up to 55%**

Save 5 5 %

※ Test Condition:
 - ODU : DVM S ECO 5HP
 - IDU : Wind-Free™ 1Way (5.6kW, 3.6kW, 2.2kW)
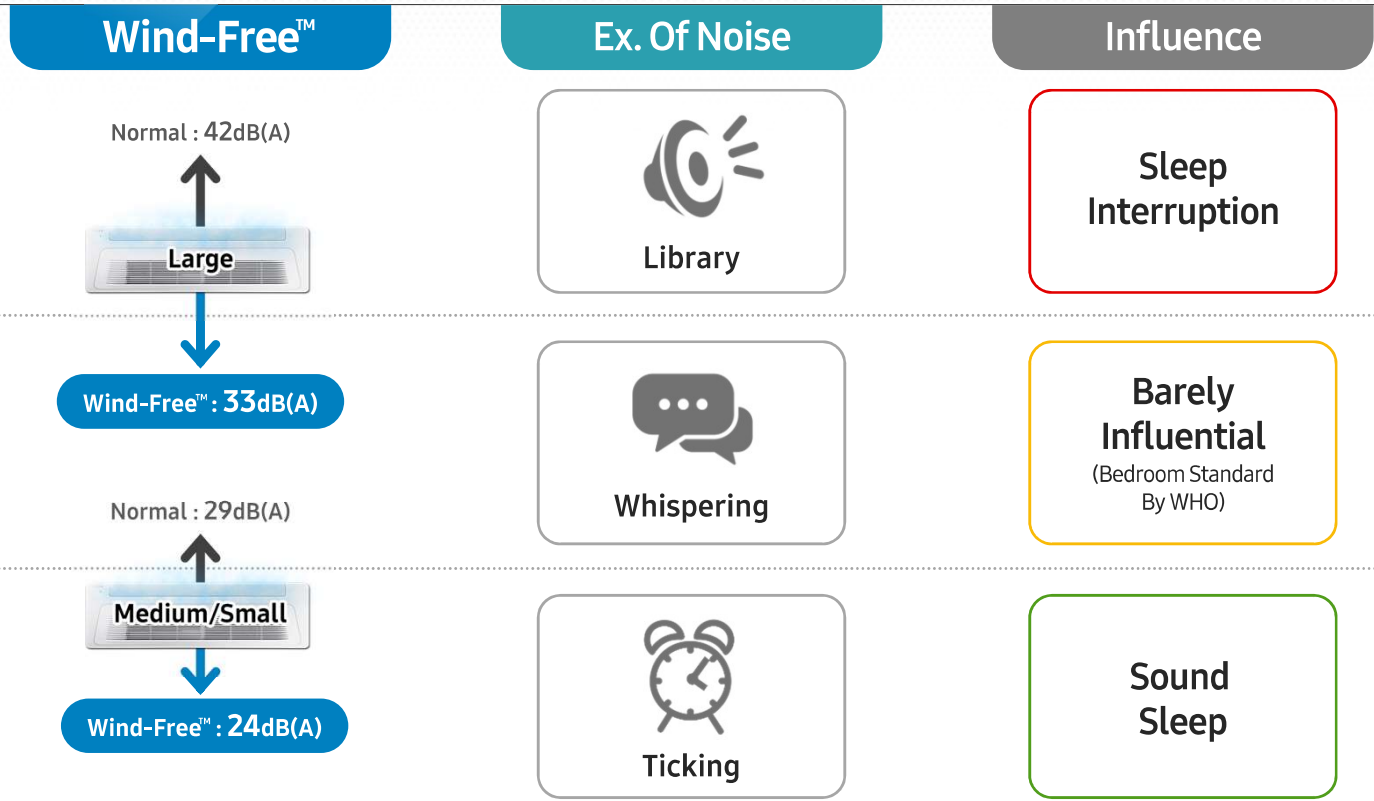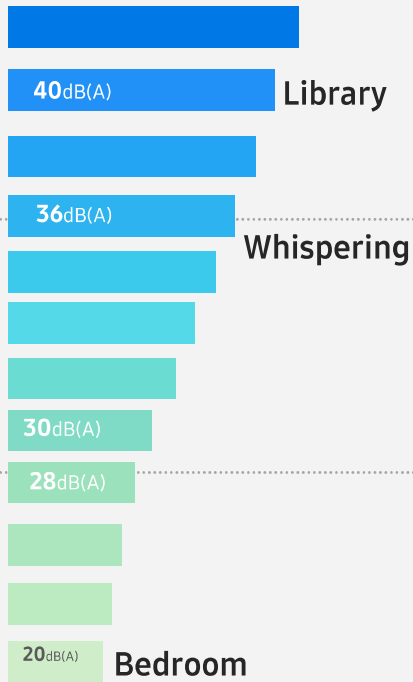
※ Temperature
 - OD 35℃ DB / 24℃ WB
 - ID 27℃ DB / 19℃ WB

02

Benefit of Using
Wind-Free™ 1Way Cassette

SAMSUNG

01. Quiet operation with Wind-Free™

	Wind-Free™	Ex. Of Noise	Influence

40dB(A) — Library

36dB(A)

Whispering

30dB(A)

28dB(A)

20dB(A) — Bedroom

Normal : 42dB(A)

Large

Wind-Free™ : **33**dB(A)

Normal : 29dB(A)

Medium/Small

Wind-Free™ : **24**dB(A)

Library

Whispering

Ticking

Sleep
Interruption

Barely
Influential
(Bedroom Standard
By WHO)

Sound
Sleep

* Large (EU, 5.6~7.1 kW, mainly for living room)
* Medium/ Small (EU,1.7~3.6 kW, from bedroom, small area)
※ Standard by National Noise Information System

SAMSUNG

02. Enjoy Cool Summer Night with Wind-Free™

Conventional 1Way

- **To feel cold, or to feel hot, that is the question**

Cold Draft by direct wind forces you to choose

Only between being too cold or too hot

Wind-Free™ 1Way Cassette

- **Wind-Free™ Cooling gives cool summer night**

Enjoy comfortable night with Wind-Free™ Cooling

- **Wind-Free™ Cooling cares our babies' health**

Comfortable night is for babies as well as parents

SAMSUNG
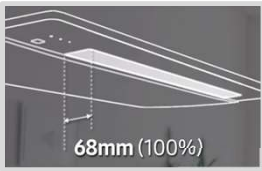
03. Stay Cool Everywhere with Long Wind
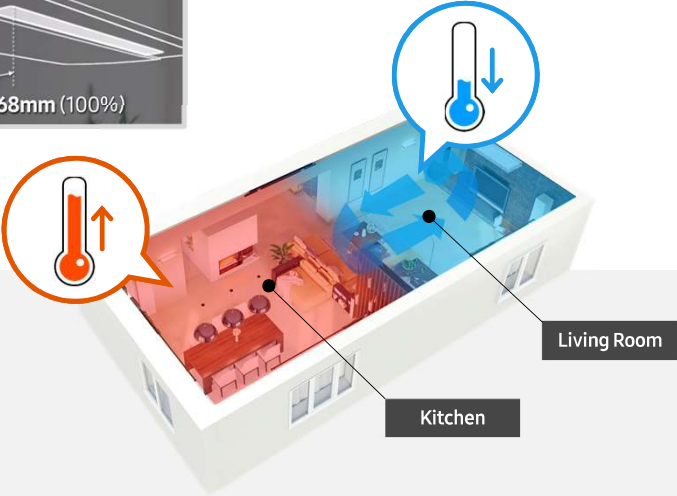
Conventional 1Way

Freezing Living Room, but Sweaty in Kitchen?

Short range of airflow cooling
- uneven **air distribution** and **temperature** by location

68mm (100%)

Living Room

Kitchen
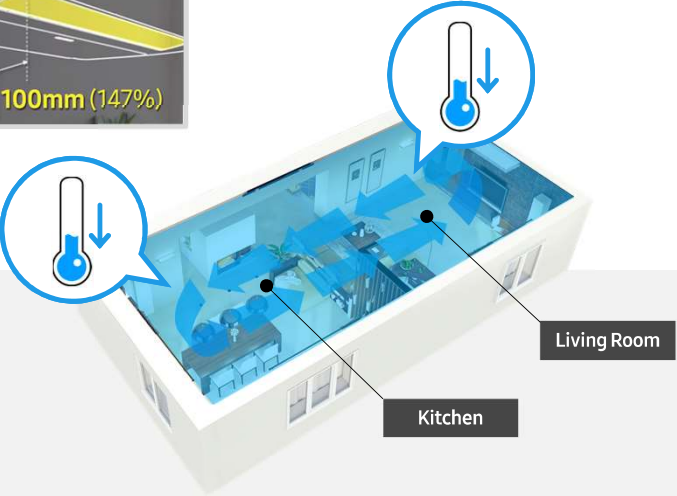
Wind-Free™ 1Way Cassette

With strong long wind from bigger blade
Cool the place all evenly

100mm (147%)

Living Room

Kitchen

0927602147172121213338

SAMSUNG

04. 2 Step Cooling Process of Wind-Free™

1 Step	Fast Cooling	2 Step	Wind-Free™ COOLING

Features

40ºC
30ºC
20ºC

Early Stage

Big blade cools air
Faster and Better

40ºC
30ºC
20ºC

Wind-Free™

No **Cold Draft** &
Save Energy up to **55%**

Benefits

Fast, Powerful
Cooling Airflow

Wind-Free™ Cooling
Save Energy up to 55%

Siddharth Arya .|sid.arya|South - SAC Sales - (DA)|2024-07-17 16:18:58

0927602147172121 3338

05. Use Smartphone to Control from Anywhere (Optional)

Smartphone control, up to 16 In-Door Units

IDU

IDU

IDU

ODU

Wi-Fi KIT

System AC

Indoors | Groups
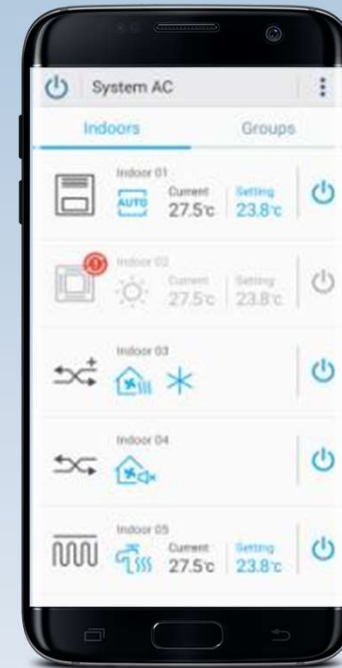
IDU Remote Control

- Power On/Off
- Cooling Mode
- Strength/Direction
- Temp. control, etc.

IDU Monitoring

- Status/Error Check

Group Remote Control

- IDU group setting, edit, & simultaneous control

Scheduled Run Setting

- Preferred temp. /Schedule (Time) /Schedule (Day), etc.

※ Samsung SmartHome App is applicable for Android 4.0 (ICS) and over, and most compatible with Samsung smartphones (Galaxy S / Note series).
※ App supports Apple devices with iOS7 and over.

03

FAQ

SAMSUNG

01. Does Wind-Free™ Cooling really work?

Yes, it works effectively.

During the early stage of cooling, it uses **Fast Cooling mode, by opening blades and using strong wind**, just like other conventional products.
When indoor temperature is lowered to preferred level and the user would like to **keep the place comfortably cool, using Wind-Free™ Cooling** is highly recommended .

Fast Cooling

Wind-Free™ COOLING

02. When do we use Wind-Free™ Cooling?

- You can activate Wind-Free™ Cooling whenever you press Wind-Free™ button on the controller. Smart Cooling mode cools air quickly and efficiently, with Fast Cooling at first, and automatically switches to Wind-Free™ mode when reaching pre-set room temperature.

- Using while sleeping or studying is highly recommended.

Fast Cooling

Wind-Free™ COOLING

Avg. Room Temp.

ASHRAE comfort cooling zone (23°C~26°C)

Avg. Room Temp. (°C)

37
35
33
31
29
27
25
23
21
19
17
15

0   60   120   180   240   300   360   420   480

Time (Min.)

SAMSUNG
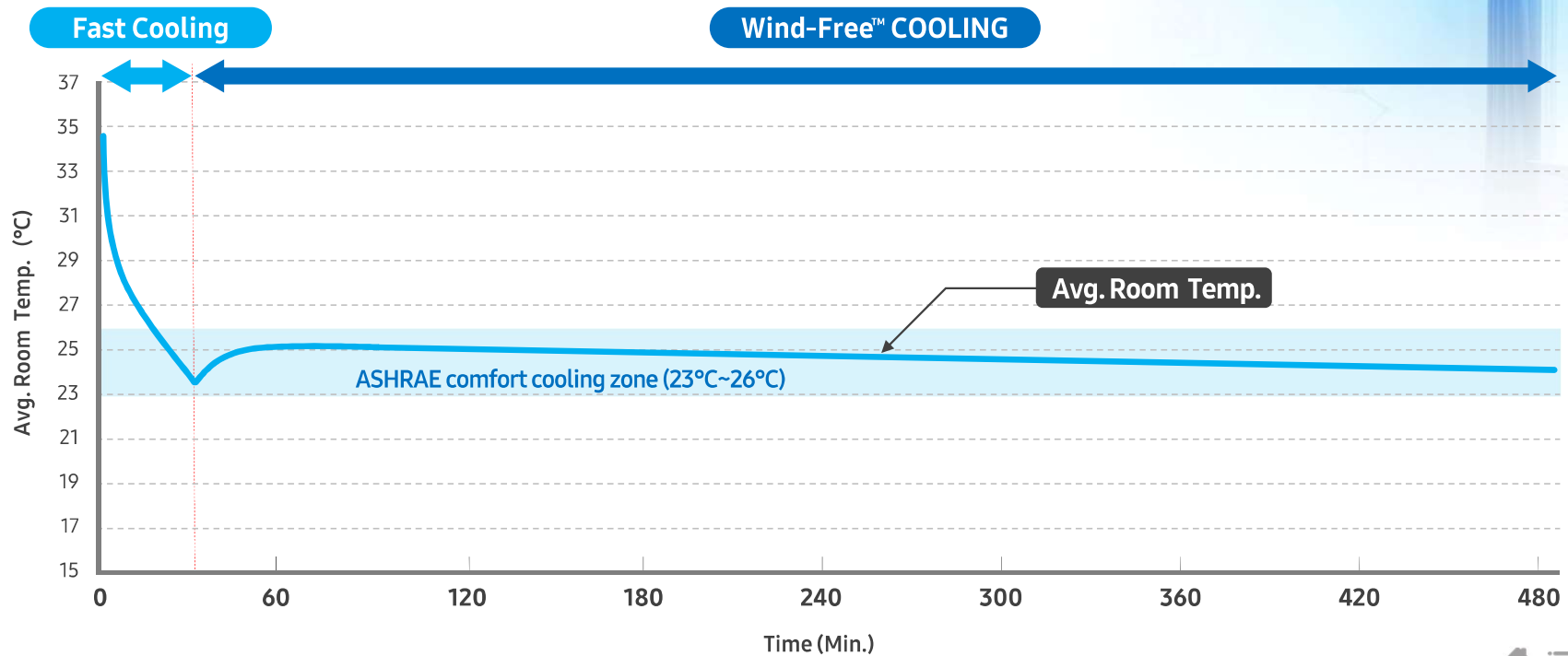
03. Aren't Wind-Free™ and Low airflow setting the same thing?

- ASHRAE defines still-air (or Wind-Free™) as when air drifts under 0.15 m/s.
  Conventional A/Cs, even with setting as low, can't create drifts under 0.15 m/s with the blade opened.
  That is what distinguishes between Wind-Free™ and low airflow setting.

Wind-Free™

0.15m/s
(Still-air)

Low Airflow

0.6m/s
(Windy)

SAMSUNG
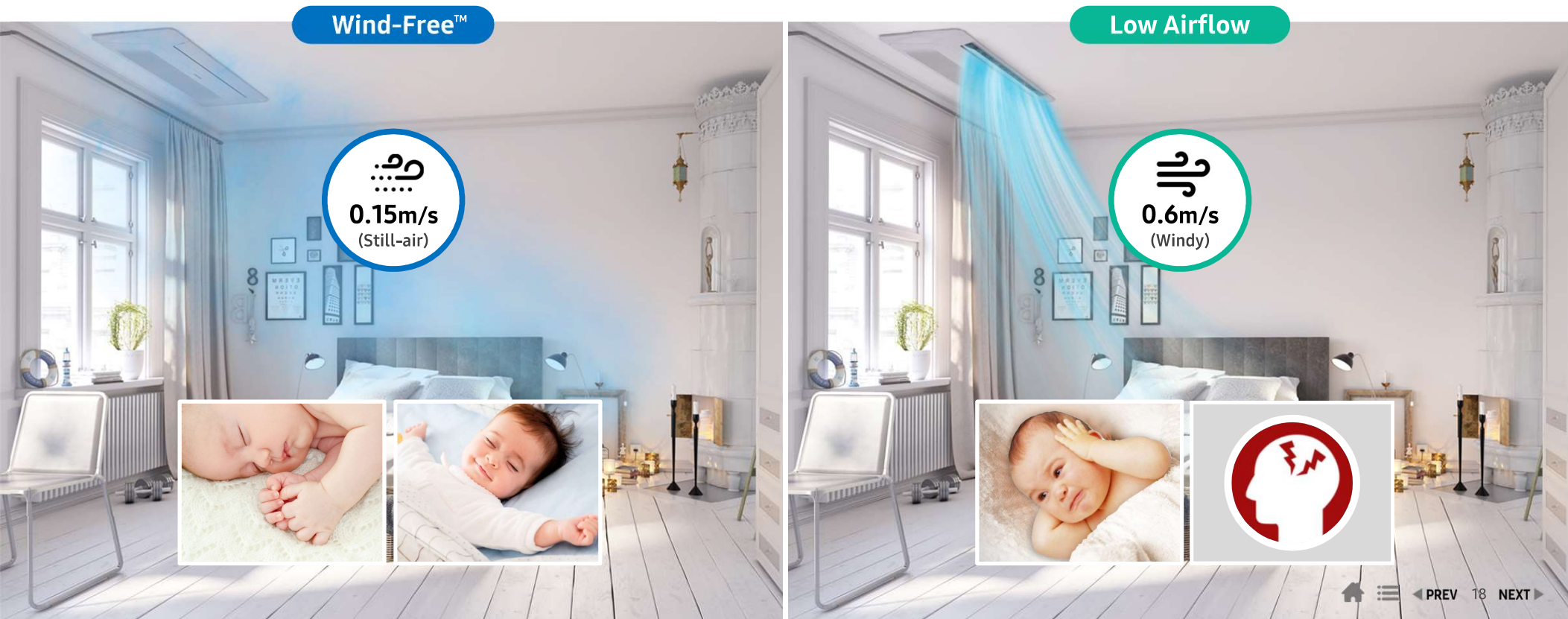
04. Does Wind-Free™ A/C smell moldy as other products?

• Every A/C is vulnerable to moldy odor, if moistures remain after cooling and when user don't dry it out. Wind-Free™ A/C has **auto-dry function** on the controller, removes remaining moistures inside after use, and takes out any possibility of having molds in the A/C.

Auto-Dry

Auto-Dry

Bad Odor   Mold

SAMSUNG
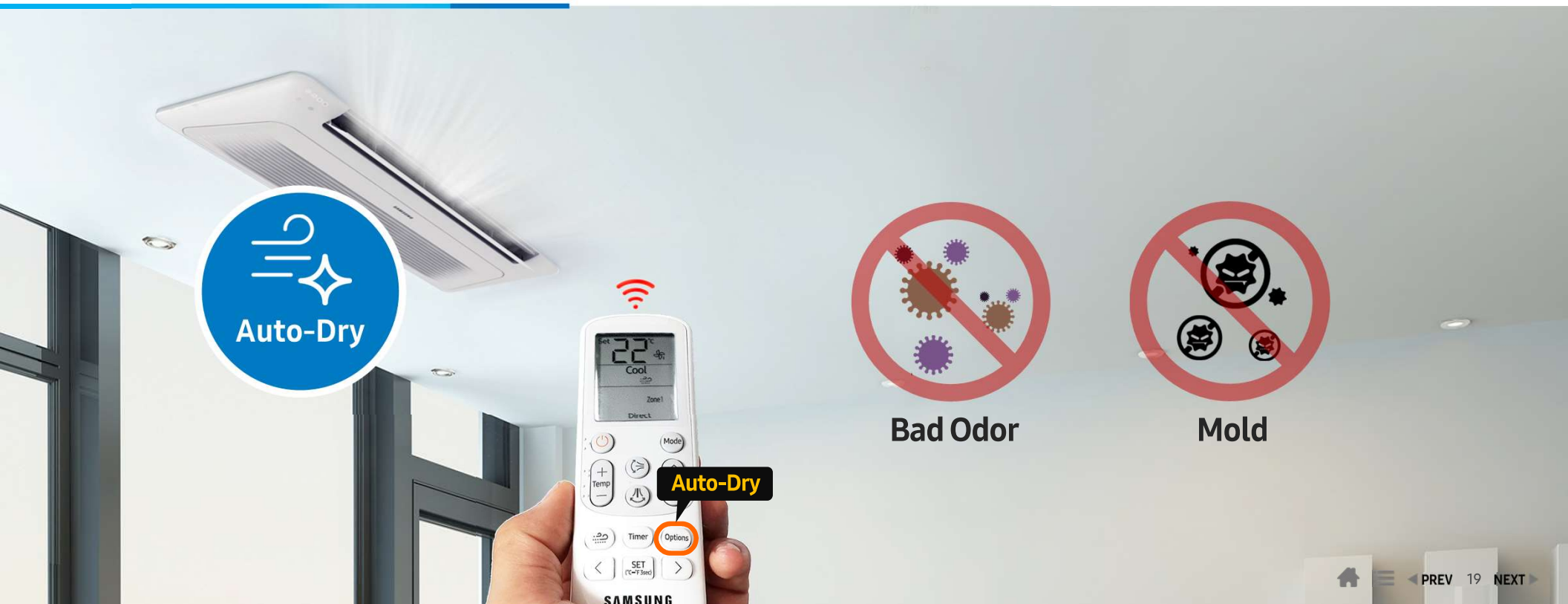
05. Is cleaning Wind–Free™ A/C different to conventional products?

- **You can clean Wind–Free™ A/C the same way** you clean other conventional products.
  Thanks to micro filtering, micro holes are invulnerable to dusts. Even if becomes dirty, user can easily remove
  dirt and stains using baby wipe or brush.

❶

There is no need to clean micro holes as they
only releases clean and filtered air.
If needed, please brush the blade gently using
cleaning tools suggested as below.

❸

❷

As grill can be opened/closed with push, it is
much easier to attach or detach micro filter.
Clean the same way as other products.

Since panel is installed on the ceiling upside
down., no need to worry about dust.
If there is any dust or stain on Design Hole,
you can easily remove with baby wipes.

09276021471721213338

SAMSUNG

06. Isn't the flat surface more vulnerable to stain or discoloration?

- Being smudged and discolored is mainly due to panel structure and static force, attracting dusts.
  Our flat panel is designed to minimize static force, and consists of UV stabilizer to prevent discoloration.

	Wind-Free™ (Flat)	Conventional (Gloss)
Normal		
When touched or stained	Clean	Fingerprints & stain
When cleaned with Baby wipe	Clean	Still smudged

Wind-Free™ 1Way Credibility Test Result

Subject	Objects Used	Test Condition	Test Standard	Test Result
UV Tolerance	UV Tester	UVC x 15W x 24hr	$\Delta E \geq 3.0$	OK
		UVB x 15W x 24hr		OK
Stain Tolerance	Permanent Marker	Left for 24 hrs and cleaned with Ethanol	No Stain left	OK
	Juice, Food stains, Sauce	Left for 24 hrs and cleaned with Water		OK
	Crayon	Left for 24 hrs and cleaned with Ethanol		OK

SAMSUNG

07. Is energy actually saved when using Wind-Free™ Cooling?

- Yes, under the same condition, energy consumption amount is **reduced by 55%** when using Wind-Free™ Cooling, compared to conventional cooling.
  By using Wind-Free™ Cooling during hot summer night, you can enjoy cool air, extreme quietness, and energy saving at once.

CONVENTIONAL	Wind-Free™ COOLING

Save 55%

Micro Hole

※ Conventional Cooling: Used Wind-Free™ 1WAY Normal Cooling mode

※ Test Condition :   ODU : DVM S ECO 5HP / IDU : Wind-Free™ 1Way / 5.6kW, 3.6kW, 2.2kW
※ Temperature :   – OD 35℃ DB / 24℃ WB   – ID 27℃ DB / 19℃ WB

08. How do we know if Wind-Free™ is on when the blade is closed?

- When Wind-Free™ Cooling is activated, **LED would light up** to show that Wind-Free™ is on.

LED light up

09. Competitiveness

Brand			SAMSUNG		Daikin	LG	MELCO
Image							
Spec	Capacity	KW	1.7~7.1	1.7~7.1 =	2.8~7.1	2.2~7.1	2.2~4.5
	Size(Body) (HxWxD)	mm	135x970x410	135x970x410 =	215x1110x170	132x450x860	230x812x395
	Size(Panel) (HxWxD)	mm	25x1198x500	35x1198x500 =	70x1240x800	34x1100x500	30x1000x470
	Noise Low Level (3.6KW)	dB	35/31/27	37/33/30 =	38/--/33	38/35/32	39/35/33
Function	Wind-Free™		-	Wind-Free™ ❯	-	-	-
	Long Wind		X	◯ ❯	X	X	X
	Blade Control		◯	◯ =	◯	◯	◯
Benefit	Even Cooling		△	◯ ❯	△	△	△
	Cold Draft Free		△	◯ ❯	△	△	△

Siddharth Arya .|sid.arya|South - SAC Sales - (DA)|2024-07-17 16:18:58

0927602147172121333

0927602147172121333

Samsung System Air Conditioner,
Well-known for Best Performance,
and Great Efficiency.

Future Air Conditioning Solution, we bring it to life.

Thank you

SAMSUNG