

# Innovations in detail



## Wind-Free™ 1-Way Cassette

### Wind-Free™ technology

Wind-Free™ Cooling is some of Samsung's most advanced technology. The Wind-Free™ 1-Way Cassette directs air through tiny holes in the panel, dispersing a gentle flow of air. These 13,000 micro-holes are essential for creating a type of airflow called "Still Air"<sup>1</sup>, which cools the room gradually and noticeably without drafts.

<sup>1</sup>ASHRAE (the American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.

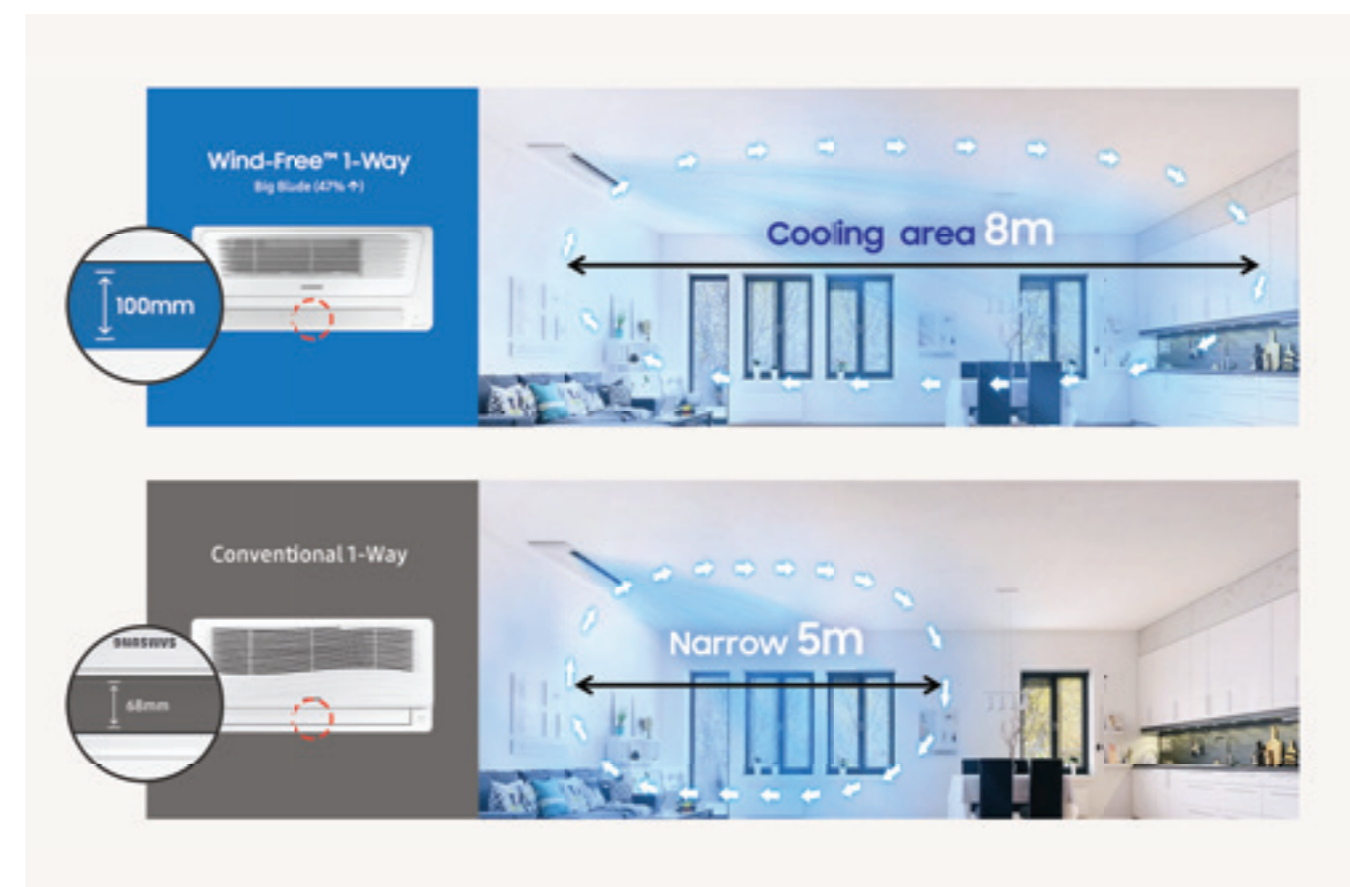


### Slim installation/small footprint

At a height of only 152 mm<sup>1</sup>, the Wind-Free™ 1-Way Cassette is a compact and lightweight device (8–13.5 kg<sup>2</sup>). This slim design makes it not only visually pleasing, but also easier to install and maintain, and it can be fitted into small gaps or ceilings.

<sup>1</sup>Up to 3.6 kW, larger models measure 155 mm.

<sup>2</sup>1.7 kW and 2.2 kW models weigh 8 kg. The 5.6 kW and 7.1 kW models weigh 13.5 kg.



### Wider cooling range

The larger, optimised blade<sup>1</sup> works to cool a larger area much faster. Its sleek design can deliver cool air efficiently, rapidly and evenly over an area of up to 8 m<sup>2</sup>, leaving no zone untouched.

<sup>1</sup>Samsung testing compares the Wind-Free™ 1-Way Cassette to a conventional 1-Way Cassette-type air conditioner.  
<sup>2</sup>Based on the 7.1 kW indoor unit.

# Specifications








## Wind-Free™ 1-Way Cassette R32

- 2-Step Cooling: Fast Cooling & Wind-Free™ Cooling.
- Blade angle between 37° and 87°, blade width 100 mm.
- Built-in humidity sensor.
- Height of only 152 mm.
- Built-in condensation drain pump (750 mmH2O).



Indoor Unit		AC026RN1DKG/EU	AC035RN1DKG/EU
Outdoor Unit - Mono-Phase		AC026RXADKG/EU	AC035RXADKG/EU
Outdoor Unit - Tri-Phase			
<b>Capacity</b>			
Cooling (Min/Nominal/Max)	kW	0.82/2.60/3.80	0.85/3.50/4.20
Heating @ +7 °C (Min/Nominal/Max)	kW	0.98/3.30/4.40	1.00/4.00/5.00
Heating @ -5 °C	kW	3.2	3.9
Heating @ -15 °C	kW	2.9	2.8
<b>Performance</b>			
Energy Efficiency Cooling	SEER <sup>1</sup>	6.4/ <span style="color: green;">A++</span>	6.2/ <span style="color: green;">A++</span>
Power Consumption	kWh/a	142	198
Pdesignc	kW	2.60	3.50
EER	W/W	3.61	3.21
Energy Efficiency Heating	SCOP <sup>1</sup>	4.0/ <span style="color: green;">A+</span>	4.0/ <span style="color: green;">A+</span>
Power Consumption	kWh/a	700	700
Pdesignh (average)	kW	2.0	2.0
COP <sup>1</sup>	W/W	3.26	3.12
Airflow Rate	Indoor Unit (H/M/L)	m <sup>3</sup> /min	7.3/6.5/5.8
Sound Power	Indoor Unit	dB(A)	52
	Outdoor Unit	dB(A)	59
Sound Pressure	Indoor Unit (H/M/L/Silent)	dB(A)	32/29/26/25
	Outdoor Unit (H/L)	dB(A)	47/46
Fan/Outdoor Unit	Type		Crossflow Fan
	Power	W	27
	Number of Fans	-	1
External Static Pressure	Min/Std/Max	Pa	
Operating Temperature Range	Cooling	°C	-15-46
	Heating	°C	-20.0-24.0
<b>Electrical Data</b>			
Power Source	Indoor Unit	Φ, #, V, Hz	1Φ, 2, 220-240 V, 50 Hz
	Outdoor Unit Mono-Phase	Φ, #, V, Hz	1Φ, 2, 220-240 V, 50 Hz
	Outdoor Unit Tri-Phase	Φ, #, V, Hz	
Compressor Type	Outdoor Unit	Type	Single BLDC
Power (Min/Nominal/Max)	Cooling	kW	0.17/0.72/1.16
	Heating	kW	0.20/1.01/1.45
Current Input	Cooling (Min/Std/Max)	A	1.2/3.8/5.4
	Heating (Min/Std/Max)	A	1.4/5.0/7.0
	Cooling - Tri-Phase (Min/Std/Max)	A	
	Heating - Tri-Phase (Min/Std/Max)	A	
<b>Dimensions</b>			
Net Dimensions (W x H x D)	Indoor Unit	mm	970 x 135 x 410
	Outdoor Unit	mm	790 x 548 x 285
Net Weight	Indoor Unit	kg	9.2
	Outdoor Unit	kg	32.5

Indoor Unit		AC026RN1DKG/EU	AC035RN1DKG/EU
Outdoor Unit - Mono-Phase		AC026RXADKG/EU	AC035RXADKG/EU
Outdoor Unit - Tri-Phase			
<b>Refrigerant</b>			
Refrigerant	Type	R32 (contains fluorinated greenhouse gases. GWP = 675)	
	Factory Charging	kg	0.9/20 m
	Charging Ton equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	0.61
	Additional Refrigerant Charging	g/m	-
Piping Connections	Liquid Pipe	ø, inch	1/4
	Gas Pipe	ø, inch	3/8
Piping Length	Min/Max	m	3/20
Piping Height	Max	m	15
Piping Connections	Drain Pipe	ø, mm	ID 18
<b>Others</b>			
Panel	Model Code		PC1NWFMAN
	Net Dimensions (W x H x D)	mm	1,198 x 35 x 500
	Net Weight	kg	4.3
Accessories	Drain Pump		Included
	Max. Lifting Height/Displacement	mm / litres/h	750/24

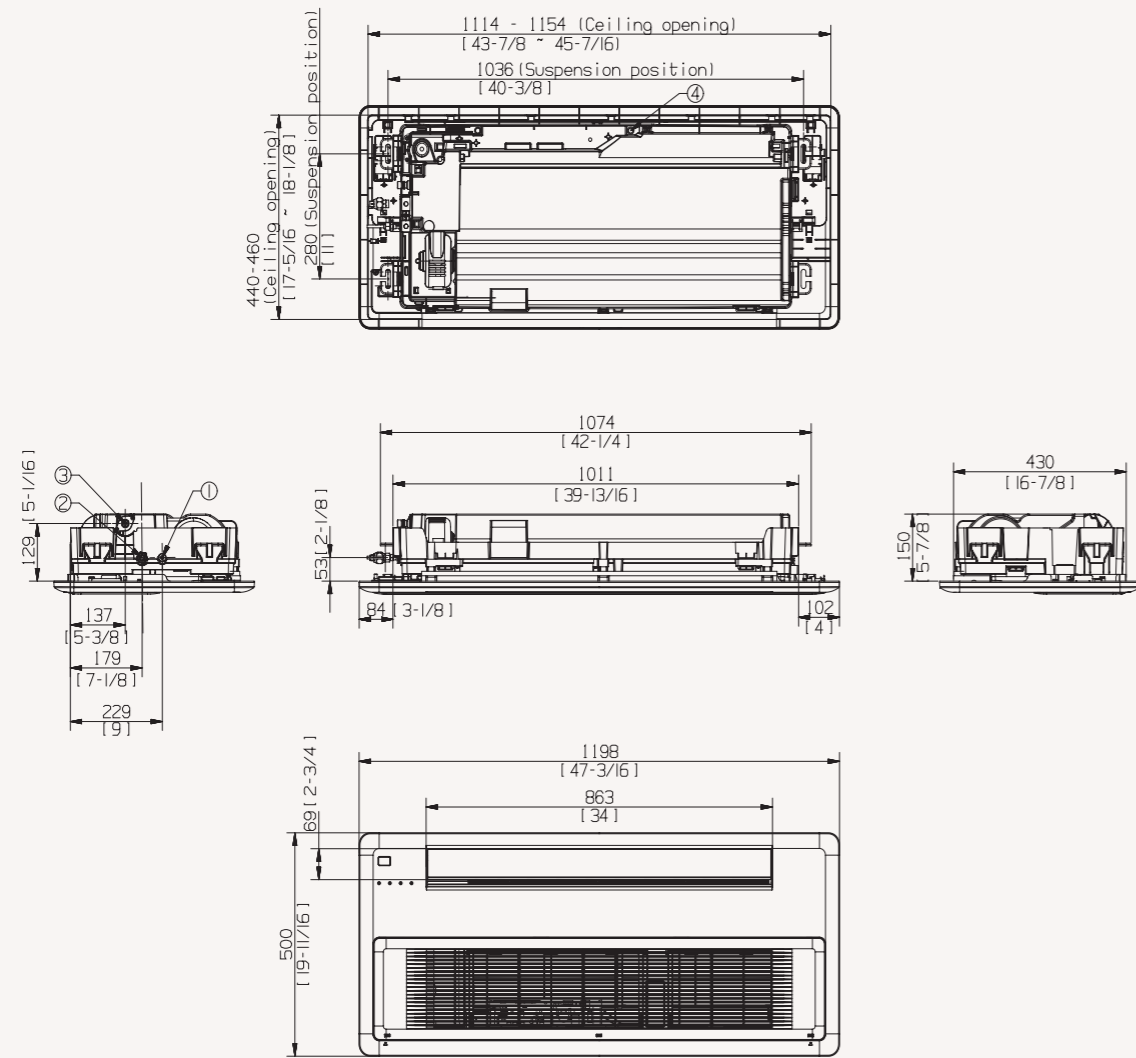
Accessories						
						
Wireless Remote Controller	Simple Type Controller	Touch Controller	Advanced Wired Controller	Wi-Fi Kit	Panel (Mandatory)	External Thermostat
AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00JN/ MWR-WG00KN	MIM-H04EN	PC4NUNMAN	MRW-TA

<sup>1</sup>Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++.

# Dimensional drawings

## Wind-Free™ 1-Way Cassette

AC026/035MN1DKH/EU



NO	Name	Description
1	Liquid pipe connection	ø6.35 (1/4)
2	Gas pipe connection	ø9.52 (3/8)
3	Drain pipe connection	VP20 (OD 26, ID 20)
4	Power supply/communication wiring conduits	

