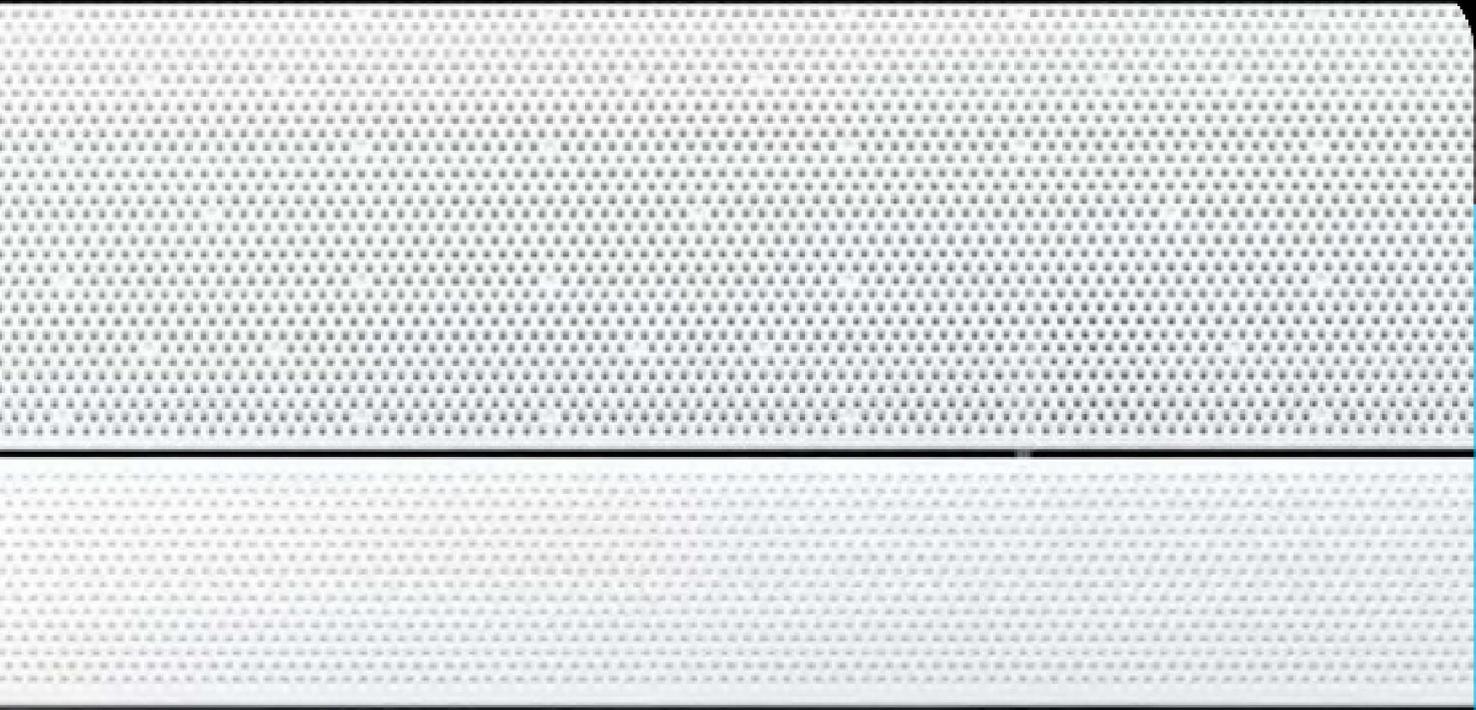


# WindFree™ 1-Way Cassette

## WindFree™ Technology

The WindFree™ 1-Way Cassette uses WindFree™ Cooling and 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.

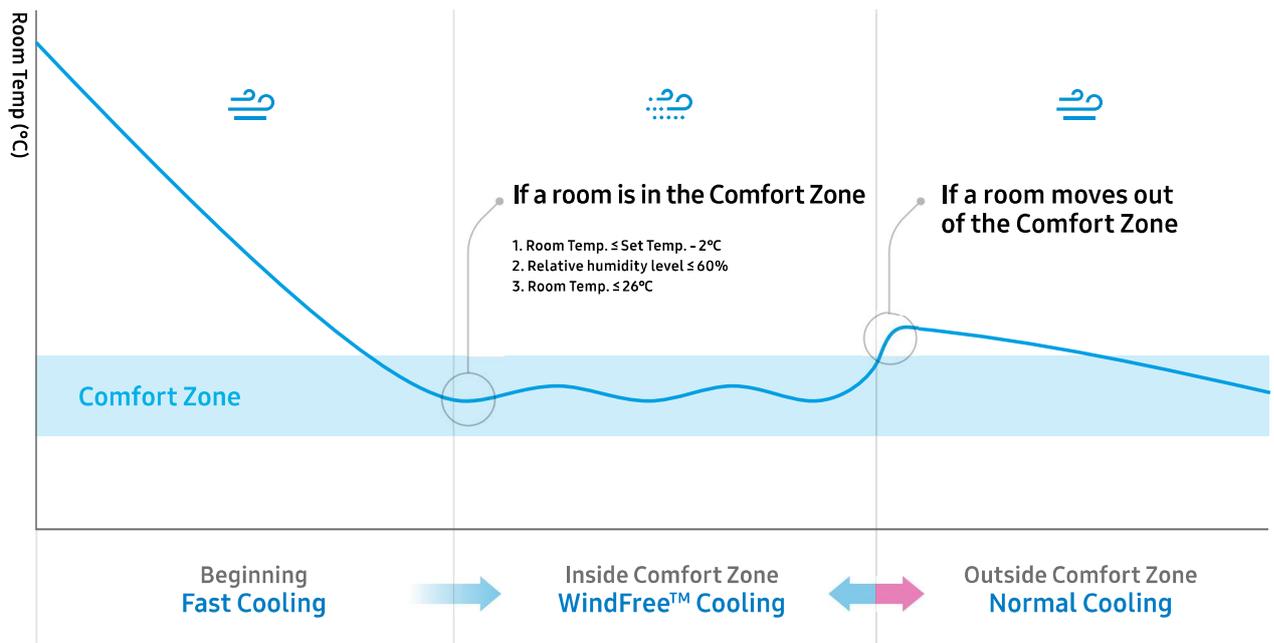


**SAMSUNG**

# Slim installation

At a height of only 135 mm<sup>1</sup>, the WindFree™ 1-Way Cassette is a compact and lightweight device (8–13.5 kg). 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> 135 mm is the height of the unit until the ceiling tile. 145 mm is the height including the ceiling tile. Up to 3.6 kW (DVM) models measures 135 mm (180 mm including panel).



# Smart Comfort Operation

The WindFree™ 1-Way Cassette has a humidity sensor as well as a temperature sensor. It continually monitors both the temperature and relative humidity<sup>1</sup> and analyzes the room conditions. It then automatically switches between operating modes to keep everyone feeling really comfortable without the need for any manual control.

<sup>1</sup> The humidity level will only be shown during WindFree™ operation and Dry Mode via the SmartThings app display.

# Specifications

## WindFree™ 1-Way Cassette

R32



- 2-Step Cooling: Fast Cooling & WindFree™ Cooling.
- Blade angle between 37° and 87°, blade width 100 mm.
- Built-in humidity sensor.
- Height of only 135 mm.
- Built-in condensation drain pump (750 mmH<sub>2</sub>O).
- Optional PM1.0 panel available.



		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>	W/W	6.4/ <b>A++</b>	6.2/ <b>A++</b>
	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>	W/W	4.0/ <b>A+</b>	4.0/ <b>A+</b>
	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	9.0/8.2/7.2
Sound Power	Indoor Unit	dB(A)	52	55
	Outdoor Unit	dB(A)	59	61
Sound Pressure	Indoor Unit (H/M/L/Silent)	dB(A)	32/29/26/25	35/32/29/28
	Outdoor Unit (H/L)	dB(A)	47/46	48/48
Fan/Outdoor Unit	Type		Crossflow Fan	Crossflow Fan
	Power	W	27	27
	Number of Fans	-	1	1
Operating Temperature Range	Cooling	°C	-15~46	-15~46
	Heating	°C	-20.0~24.0	-20.0~24.0
<b>Electrical Data</b>				
Power Source	Indoor Unit	Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Outdoor Unit Mono-Phase	Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Outdoor Unit Tri-Phase	Φ, #, V, Hz		
Compressor Type	Outdoor Unit	Type	Single BLDC	Single BLDC
Power (Min/Nominal/Max)	Cooling	kW	0.17/0.72/1.16	0.18/1.09/1.40
	Heating	kW	0.20/1.01/1.45	0.19/1.28/1.80
Current Input	Cooling (Min/Std/Max)	A	1.2/3.8/5.4	1.6/5.3/7.5
	Heating (Min/Std/Max)	A	1.4/5.0/7.0	1.3/6.2/10.5
	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	970 x 135 x 410
	Outdoor Unit	mm	790 x 548 x 285	790 x 548 x 285
Net Weight	Indoor Unit	kg	9.2	9.2
	Outdoor Unit	kg	32.5	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	0.9/20 m
	Charging Ton equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	0.61	0.61
	Additional Refrigerant Charging	g/m	-	-
Piping Connections	Liquid Pipe	ø, inch	1/4	1/4
	Gas Pipe	ø, inch	3/8	3/8
Piping Length	Min/Max	m	3/20	3/20
Piping Height	Max	m	15	15
Piping Connections	Drain Pipe	ø, mm	ID 18	ID 18
<b>Others</b>				
Panel	Model Code		PC1NWFMAN	PC1NWFMAN
	Net Dimensions (W x H x D)	mm	1,198 x 35 x 500	1,198 x 35 x 500
	Net Weight	kg	4.3	4.3
Accessories	Drain Pump		Included	Included
	Max. Lifting Height/Displacement	mm / Litres/h	750/24	750/24

## Controls and Accessories



Wireless Remote Controller	Wireless Remote Controller	Simple Type Controller	Touch Controller	Advanced Wired Controller	Touch Centralised Controller
AR-CH01E	AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG01JN/MWR-WG01KN	MCM-A300BN
DMS 2.5	BACnet/Lonworks/PIM	ON/OFF Controller	Wi-Fi Kit	External Thermostat	Panel (Mandatory)
MIM-D01AN	MIM-B17BN/B18BN/B16N	MCM-A202DN	MIM-H04EN	MRW-TA	PC1NWFMAN



Air Purification Panel
PC1NWCMAN

<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+++.

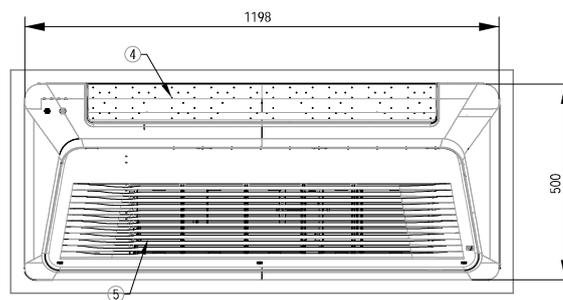
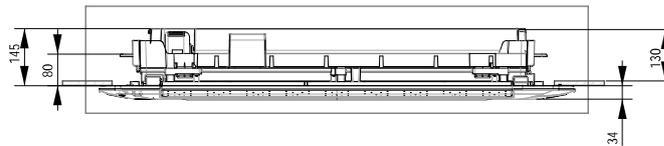
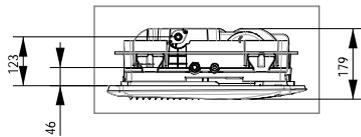
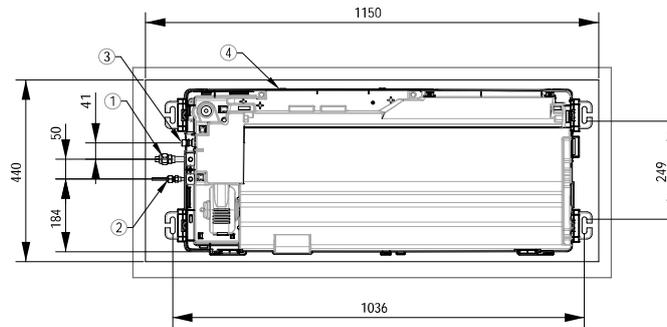
# Dimensional drawings

## WindFree™ 1-Way Cassette

R32

AC026/035MN1DKH/EU

Units: mm [inches]



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	

