

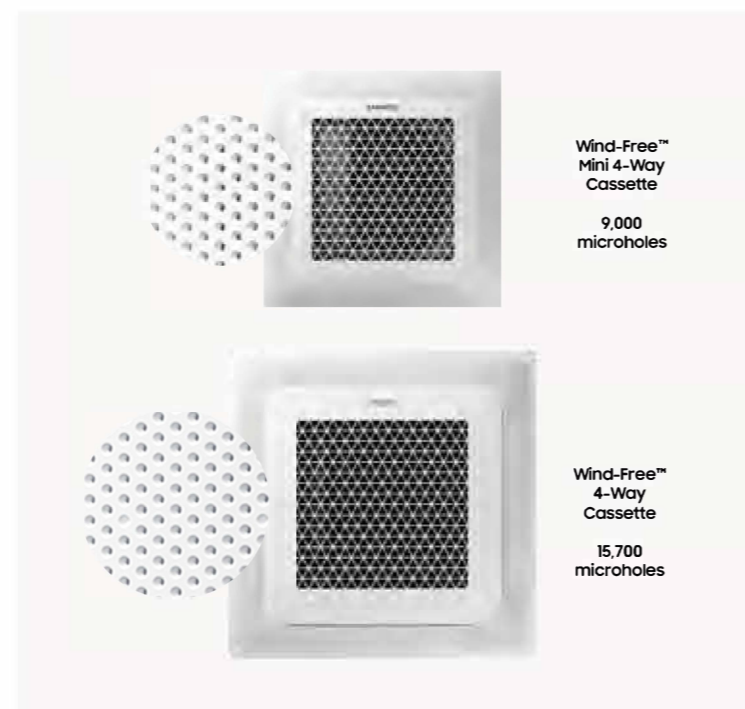
Featured Products



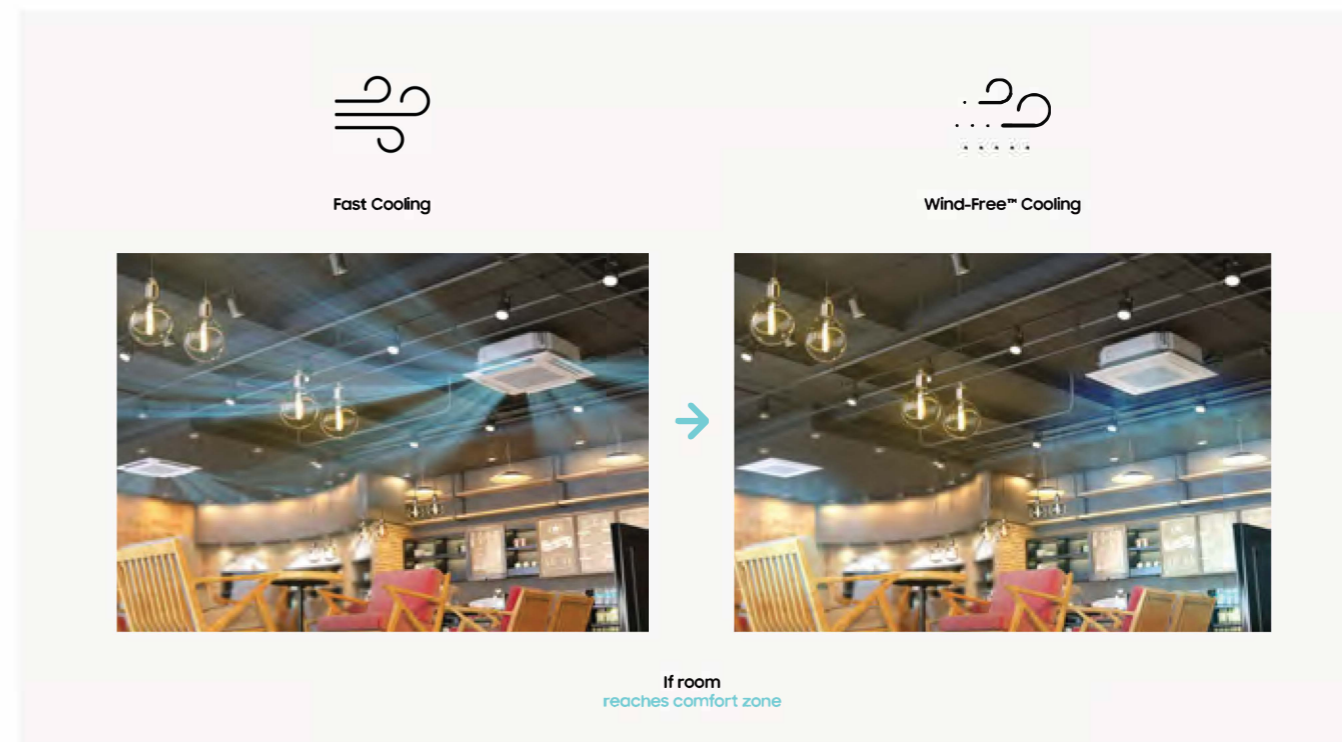
Wind-Free™ 4-Way & Mini 4-Way Cassette

Wind-Free Technology

Wind-Free™ Cooling is some of Samsung's most advanced technology. The Wind-Free™ 4-Way Cassette pushes air out through 15,700 micro holes in the panel, while the Wind-Free™ Mini 4-Way Cassette pushes air through 9,000 micro holes in the panel. These micro holes are paramount in creating a kind of airflow called "still air", which cools the room gradually and noticeably with no draughts.

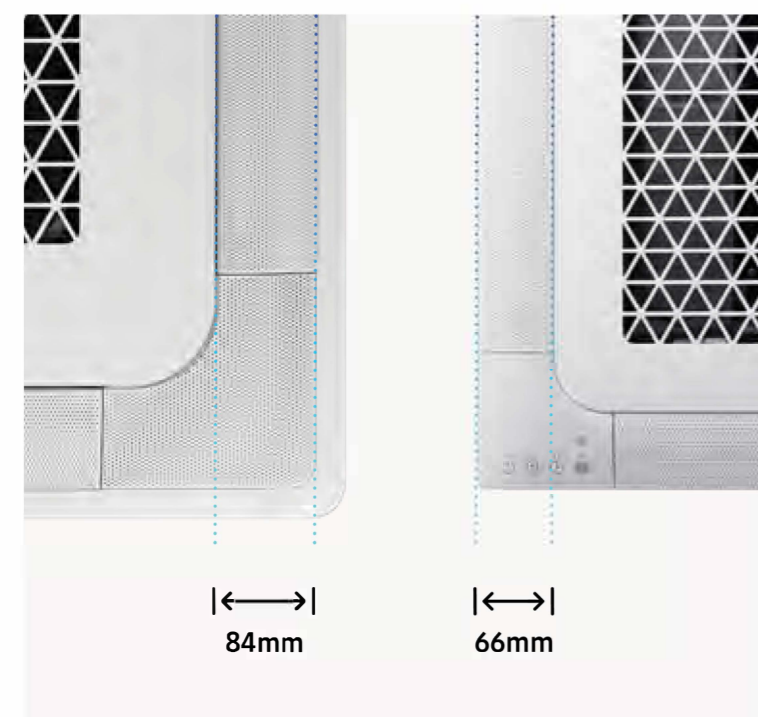


* ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15m/s which lacks the presence of cold drafts.



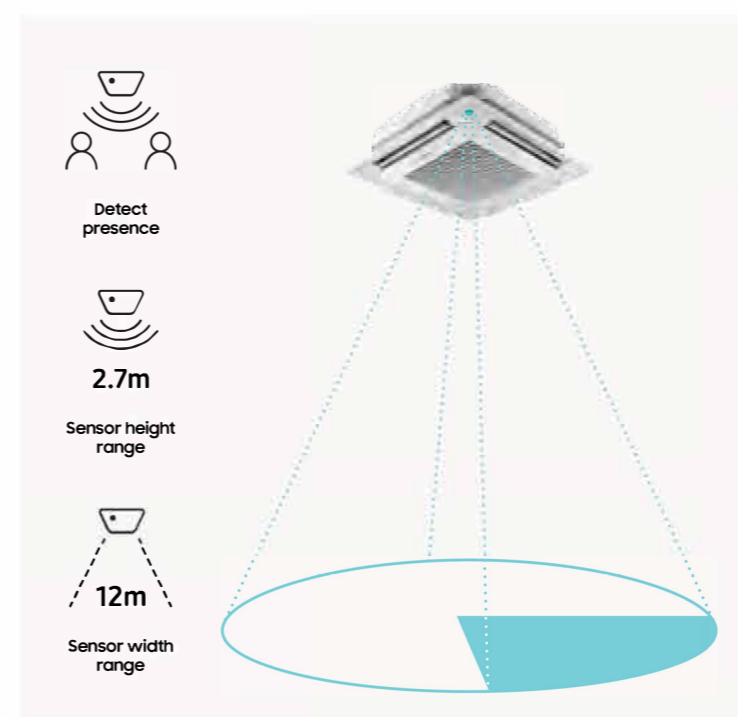
Smart Comfort Operation

The Wind-Free™ 4-Way Cassette and the Wind-Free™ Mini 4-Way Cassette boast Smart Comfort Operation. An innovative 'Fast Cooling' process helps a room to reach a desired temperature quickly. By simultaneously detecting a room's humidity levels, the Smart Comfort Operation feature maintains the room's temperature automatically.



Optimised Blades

The larger and optimised blades (84mm Wind-Free™ 4-Way Cassette, 66mm Wind-Free™ Mini 4-Way Cassette) enable a wider cooling range and improved air circulation within the room. This advanced technology also cools the space much faster, with no zone left untouched.



Motion Detect Sensor

By detecting the presence and location of people in the room, the improved Motion Detect Sensor (MDS) means air cooling is efficient and airflow direction can be managed automatically.

→ For Multi Split (FJM) please see: Page 3.24
→ For Commercial (CAC) please see: Page 4.16

Specifications



Wind-Free™ 4-Way Cassette R32 NEW

Indoor Unit		AC052RN4DKG/EU	AC071RN4DKG/EU	AC100RN4DKG/EU	AC120RN4DKG/EU	AC140RN4DKG/EU	
Outdoor Unit- Mono-Phase		AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC120RXADKG/EU	AC140RXADKG/EU	
Outdoor Unit- Tri-Phase		-	-	AC100RXADNG/EU	AC120RXADNG/EU	AC140RXADNG/EU	
Capacity							
Cooling (Min/Nominal/Max)	kW	1.00 / 5.00 / 6.50	1.50 / 7.10 / 8.70	3.0 / 10.0 / 12.0	3.5 / 12.0 / 13.5	3.5 / 13.4 / 15.0	
	Heating up to +7°C (Min/Nominal/Max)	1.00 / 6.00 / 7.00	1.90 / 8.00 / 9.00	2.2 / 11.2 / 15.5	3.5 / 13.2 / 15.5	3.5 / 15.5 / 18.0	
	Heating @ -5°C	5.9	7.8	11.00	12.9	15.2	
	Heating @ -15°C	5.2	7.00	9.7	11.5	13.5	
Performance							
Energy Efficiency Cooling	SEER	7.6 / A++	6.7 / A++	7.0 / A++	6 / A+	6.6	
	Consumption	kWh/a	230	371	500	TBD	-
	Pdesignc	kW	5.0	7.1	10.0	TBD	-
	EER	W/W	3.5	2.98	2.92	2.6	3.16
Energy Efficiency Heating	SCOP	W/W	4.3 / A+	4.2 / A+	4.3 / A+	4.0 / A+	4.3
	Consumption	kWh/a	847	1500	1726	TBD	-
	Pdesignh (average)	kW	2.6	4.5	5.3	TBD	-
	COP	W/W	4.03	3.27	3.61	3.18	3.16
AirFlow Rate	Indoor Unit (High/Mid/Low)	m ³ /min	40.0 / 30.0 / 20.0	51.0 / 38.0 / 25.0	72.0 / 54.0 / 36.0	72.0 / 54.0 / 36.0	110.0 / 82.5 / 55.0
Sound Power	Indoor Unit	dB(A)	49	55	61	61	61
	Outdoor Unit	dB(A)	62	65	69	70	69
Sound Pressure	Indoor Unit (Silent/Low/Mid/High)	dB(A)	29 / 31 / 33 / 35	29 / 33 / 36	33 / 39 / 44	35 / 40 / 45	37 / 41 / 45
	Outdoor Unit	dB(A)	48 / 48	49 / 51	52 / 54	54 / 56	53 / 54
Fan/ Outdoor unit	Type		BLDC	BLDC	BLDC	BLDC	BLDC
	Power	W	65	65	97	97	97
	Number	EA	1	1	1	1	1
External Static Pressure	Min / Std / Max	Pa					
Operating Temp. Range	Cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24
Electrical Data							
Power Source	Indoor Unit	V / Hz / Φ / #	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 1P	V / Hz / Φ / #	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 3P	V / Hz / Φ / #	-	-	380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4
Compressor Type	Outdoor Unit	Type	Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC
Power (Min/Nominal/Max)	Cooling	kW	0.33 / 1.43 / 2.30	0.35 / 2.38 / 3.60	0.60 / 3.42 / 4.70	0.90 / 4.60 / 5.30	0.80 / 4.62 / 6.45
	Heating	kW	0.25 / 1.49 / 2.50	0.35 / 2.45 / 3.95	0.46 / 3.10 / 5.40	0.75 / 4.15 / 5.60	0.70 / 4.90 / 7.36
Current Input	Cooling (Min/Std/Max)	A	1.5 / 6.5 / 9.5	2.0 / 10.3 / 16.0	3.0 / 15.2 / 20.4	4.3 / 20.1 / 24.0	3.7 / 20.0 / 28.0
	Heating (Min/Std/Max)	A	1.5 / 6.8 / 12.0	2.0 / 10.7 / 17.0	2.5 / 13.6 / 23.0	3.7 / 18.2 / 26.0	3.5 / 21.3 / 32.0
	Cooling- Tri-Phase (Min/Std/Max)	A	-	-	1.5 / 5.5 / 7.1	2.1 / 6.8 / 10.0	2.1 / 7.1 / 10.5
	Heating- Tri-Phase (Min/Std/Max)	A	-	-	1.2 / 5.1 / 8.4	2.1 / 6.3 / 12.0	1.9 / 7.3 / 12.0
Dimensions							
Net Dimensions (W x H x D)	Indoor Unit	mm	840 x 204 x 840	840 x 204 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Outdoor Unit	mm	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330	940 x 1210 x 330
Net Weight	Indoor Unit	kg	14.5	14.5	14.5	18.0	18.0
	Outdoor Unit	kg	43.0	51.0	75.0	81.0	91.5
Refrigerant							
Refrigerant	Type	R32(Contains fluorinated greenhouse gases. GWP=675)					
Factory charging	kg	1.2 / 10m	1.7 / 15m	2.7 / 30m	2.7 / 30m	2.9 / 30m	
	Charging Ton equivalent CO2	tCO2e	0.81 tCO2e	1.15 tCO2e	1.82 tCO2e	1.82 tCO2e	1.96 tCO2e
	Additional refrigerant charging	g / m	15	25	50	50	50
Piping Connections	Liquid Pipe	Φ.inch	1 / 4	1 / 4	3 / 8	3 / 8	3 / 8
	Gas Pipe	Φ.inch	1 / 2	5 / 8	5 / 8	5 / 8	5 / 8
Piping Length	Min/ Max	m	3 / 30	3 / 50	50	50	75
Piping Height	Max	m	20	30	30	30	30
Piping Connections	Drain pipe	Φ.mm	VP25 (OD32.ID25)	VP25 (OD32.ID25)	VP25 (OD32.ID25)	VP25 (OD32.ID25)	VP25 (OD32.ID25)
Others							
Panel	Model code		PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	Net Dimensions (W x H x D)	mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Net Weight	kg	6.3	6.3	6.3	6.3	6.3
Accessories	Drain pump		included	included	included	included	included
	Max lifting height/ displacement	mm / l/h	750/24	750/24	750/24	750/24	750/24

- 2-StepCooling – FastCooling & Wind-Free™ Cooling.
- Four-way air supply via independently adjustable blades.
- Blade angle between 34° and 68°; Blade width 84mm.
- Built-in humidity sensor.
- High ceiling mode for heights up to 4.6m (12-14 kW), 3.9m (9-10 kW), 3.5m(5.2-7.1kW).
- Built-in condensation drain pump (750 mmH2O).
- SPI Ionizer device (optional).

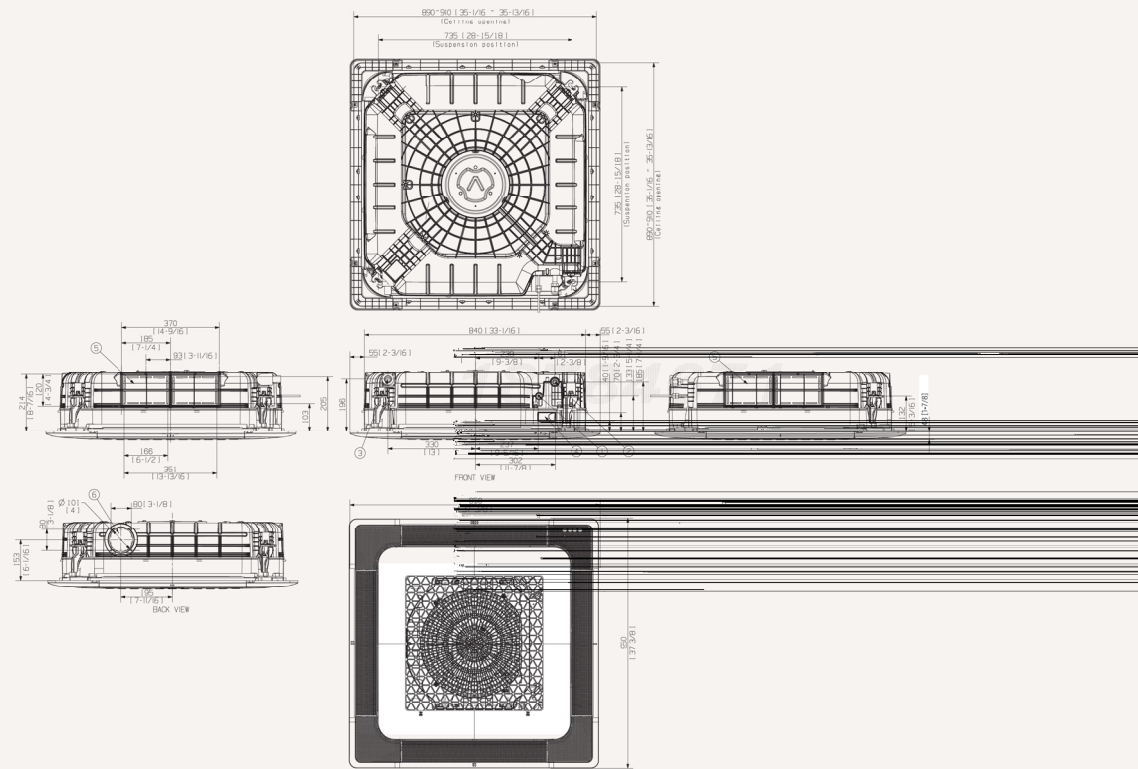


AR-EH03E MWR-SH00N MWR-SH11N MWR-WE13N FC4NUFMAN

Dimensional Drawings

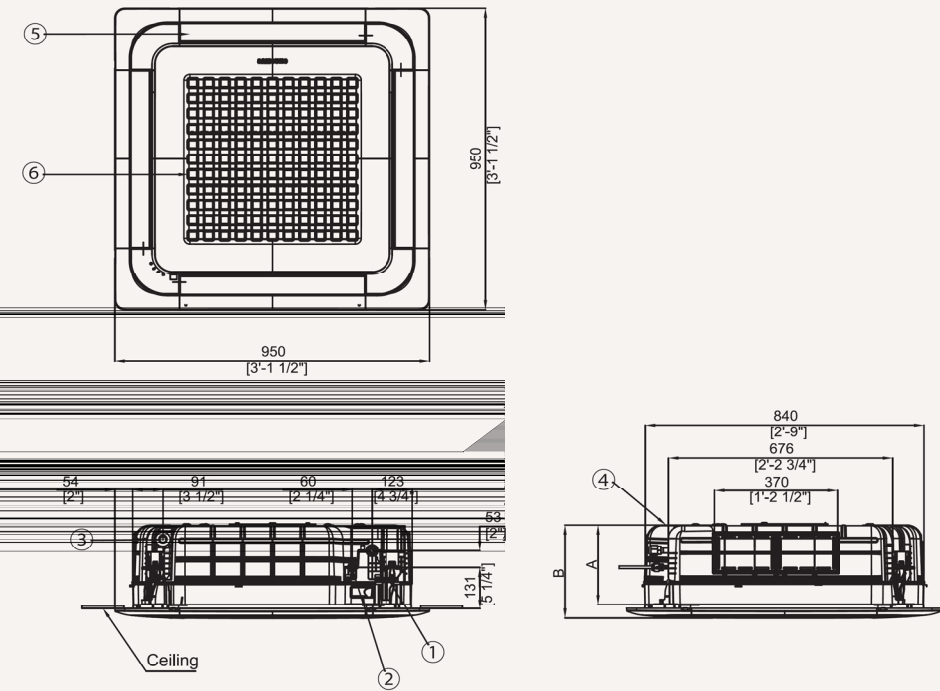
Wind-Free™ 4-Way Cassette

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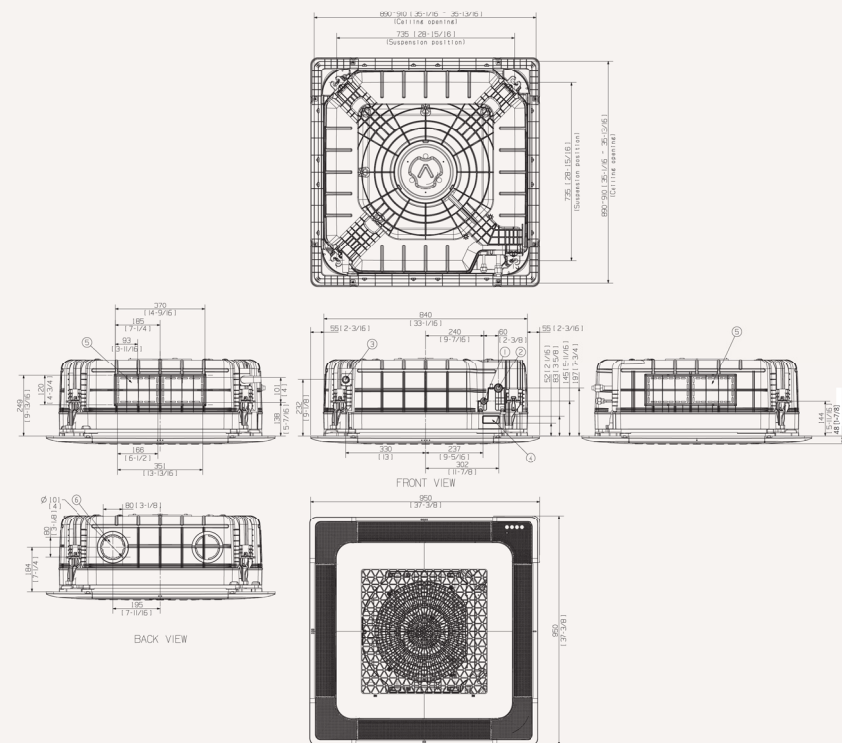


Wind-Free™ 4-Way Cassette

AC071JN4CEH/EU, AC100JN4CEH/EU, AC125JN4CEH/EU



AC090/100/120/140*N4DK*/EU



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Learn more about Samsung Climate Solutions at: www.samsung.com/climate

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