

Product Features

Wind-Free™ 4-Way Cassette

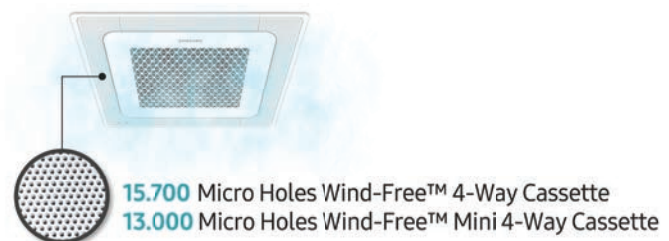
Wind-Free™ 4-Way Cassette & Mini 4-Way Cassette

Wind-Free™ Cooling is Samsung's advanced technology. The Wind-Free™ 4-Way Cassette pushes air out through thousands of micro air holes in the panel, producing a dispersed and gentle flow of air actually defined as "still air" and the key here is all of those holes create a still, cooled airflow that infiltrates the room gently and softly so that users do not experience cold draft.



Wind-Free™ Cooling with micro holes

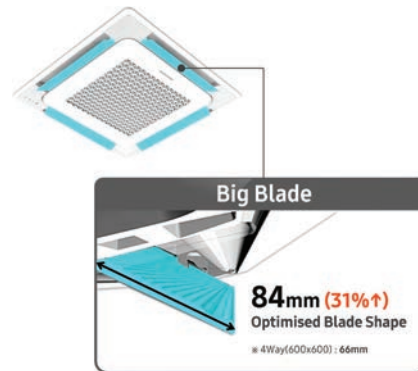
The Wind-Free™ 4-Way Cassette pushes air out through 15,700 micro holes in the panel and the Wind-Free™ Mini 4-Way Cassette pushes air out through 13,000 micro holes in the panel, producing a dispersed and gentle flow of air actually defined as "still air". The key here is that all of those holes create a still, cooled airflow that infiltrates the room gently and softly.



*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.

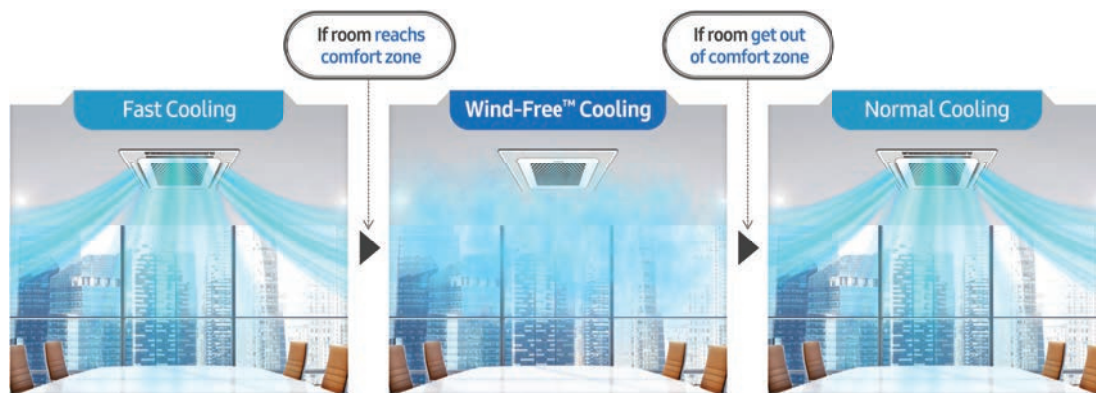
Big blade, long wind

The big and optimised blades enable a wider cooling range, which results in an improved air circulation within the room and it can cool the area much faster without leaving any dead zones.



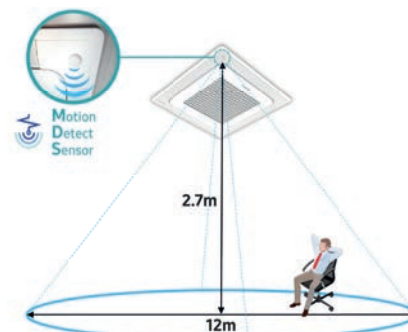
Smart Comfort Operation

The smart comfort operation is able to maintain an optimal room condition automatically, by detecting not only the temperature but also the relative humidity in the room.



New Motion Detect Sensor (MDS) Operation (Optional)

The newly designed Motion Detect Sensor (MDS) enables customised air direction and efficient operation by detecting the location of people in the room.








Specifications

Wind-Free™ 4-Way Cassette



Model	Indoor Unit Outdoor Unit		AC052NN4DKH/EU AC052MXADKH/EU	AC071NN4DKH/EU AC071MXADKH/EU	AC090NN4DKH/EU AC090MXADKH/EU
Cooling	Std Capacity (Min~Max) Std.	kW	5.00 ~ 6.00	2.20 ~ 7.10	9.00 ~ 11.30
	Std Absorption (Min~Max) Std.	kW	1.44 ~ 2.10	2.53 ~ 3.95	2.75 ~ 4.46
	SEER: Seasonal Energy Efficiency Ratio	-	6,9	6,2	6,8
	Seasonal Energy Efficiency Class	-	A++	A++	A++
	Design Heat Load (Pdesignc)	kW	-	-	-
	Indicative Annual Energy Consumption (QCE)	kWh/a	-	-	-
Heating	Std Capacity (Min~Max) Std.	kW	6.00 / 7.00	8.00 / 9.00	10.00 / 13.90
	Std Absorption (Min~Max) Std.	kW	1.49 ~ 2.10	2.40 ~ 3.95	2.70 ~ 5.20
	SCOP: Seasonal Coefficient of Performance	-	4,3	4,1	4,3
	Seasonal Energy Efficiency Class	-	A+	A+	A+
	Design Heat Load (Pdesignh)	kW	2.6	4.5	6.3
	Electric back-up heater capacity elbu (Tj)	kW	-	-	-
	Declared capacity	kW	-	-	-
	Indicative annual energy consumption (QHE)	kWh/a	-	-	-
Indoor Unit	Dimensions (WxHxD)	mm	840 x 204 x 840	840 x 204 x 840	840 x 288 x 840
	Panel Dimensions (WxHxD)	mm	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950
	Weight	Kg	15	15	18
	Panel Weight	Kg	6,5	6,5	6,5
	Treated Air (Max)	m3/min	15	19,5	30
	Static Pressure Min-Std-Max	mmH2O	-	-	-
	Sound Power Level	dB(A)	49	53	60
Outdoor Unit	Dimensions (WxHxD)	mm	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330
	Weight	Kg	43,8	53	72
	Sound Power Level	dB(A)	62	65	68
	Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
	Operating Range (Cooling)	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Operating Range (Heating)	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24
Installation Data	Liquid Piping	Ømm (inch)	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
	Gas Piping	Ømm (inch)	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")
	Piping Length Max	m	30	50	50
	Maximum Elevation Gap (Indoor/Outdoor Unit)	m	20	30	30
	Maximum Piping Length without Adding Refrigerant	m	5	5	30
	Additional Refrigerant Charging	g/m	-	-	-
Refrigerant	Refrigerant Type	-	R410A	R410A	R410A
	GWP: Global warming potential of the used refrigerant	-	2088	2088	2088
	Factory Charging	Kg	1,3	1,5	3
	Ton equivalent Co2	tCo2Eq	2,71	3,13	6,26

Accessories				
Individual Controllers (Optional)			Panel (Required)	
				
AR-EH03E	MWR-SH00N	MWR-SH10N	MWR-WE13N	PC4NUFMAN

AC100NN4DKH/EU AC100MXADKH/EU	AC100NN4DKH/EU AC100MXADNH/EU	AC120NN4DKH/EU AC120MXADKH/EU	AC120NN4DKH/EU AC120MXADNH/EU	AC140NN4DKH/EU AC140MXADKH/EU	AC140NN4DKH/EU AC140MXADNH/EU
10.00 ~ 12.00	10.00 ~ 12.00	12.00 ~ 13.50	12.00 ~ 13.50	13.40 ~ 15.50	13.40 ~ 15.50
3.12 ~ 4.70	3.12 ~ 4.70	4.70 ~ 5.30	4.70 ~ 7.90	4.45 ~ 6.44	4.45 ~ 7.90
6,8	6,8	5,7	5,7	5,8	5,8
A++	A++	A+	A+	A+	A+
-	-	-	-	-	-
-	-	-	-	-	-
11.20 / 15.50	11.20 / 15.50	13.00 / 15.50	13.00 / 15.50	15.50 / 18.00	15.50 / 18.00
3.10 ~ 5.40	3.10 ~ 5.40	3.80 ~ 5.50	3.80 ~ 7.90	4.54 ~ 7.36	4.54 ~ 7.90
4,3	4,3	4,1	4,1	4	4
A+	A+	A+	A+	A+	A+
6.3	6.3	7.4	7.4	8.4	8.4
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950
18	18	18	18	20	20
6,5	6,5	6,5	6,5	6,5	6,5
31	31	32	32	32	32
-	-	-	-	-	-
61	61	61	61	61	61
940 x 998 x 330	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330	940 x 1210 x 330	940 x 1210 x 330
72	72	77	77	87	87
69	69	70	70	69	69
1, 220-240, 50	3, 380-415, 50	1, 2, 220-240, 50	3, 380-415, 50	1, 220-240, 50	3, 380-415, 50
-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24
9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
50	50	50	50	75	75
30	30	30	30	30	30
30	30	30	30	30	30
-	-	-	-	-	-
R410A	R410A	R410A	R410A	R410A	R410A
2088	2088	2088	2088	2088	2088
3	3	3	3	3,4	3,4
6,26	6,26	6,26	6,26	7,1	7,1