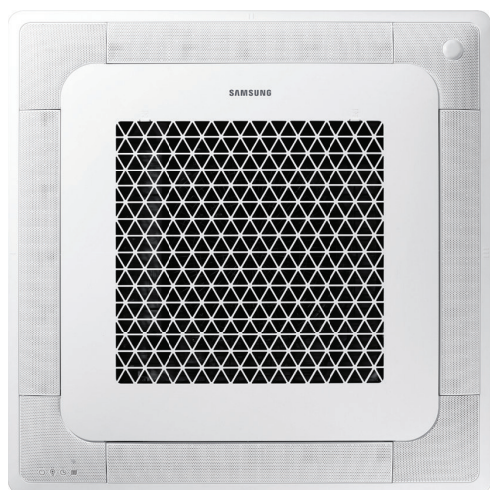


Product Features

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

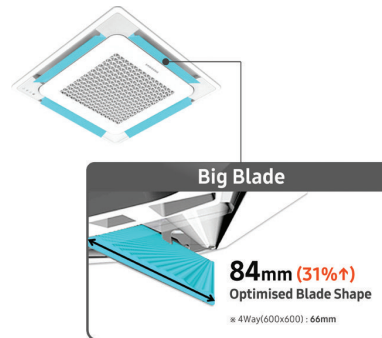
The Wind-Free™ 4-Way Cassette pushes air out through 15,700 micro holes in the panel and the Wind-Free™ Mini 4-Way Cassette pushes air out through 13,000 micro holes in the panel, producing a dispersed and gentle flow of air actually defined as "still air". The key here is that all of those holes create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

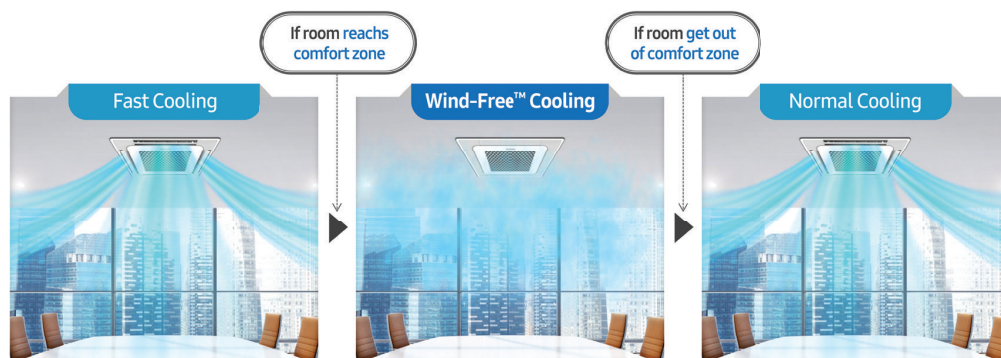
Big blade, long wind

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.



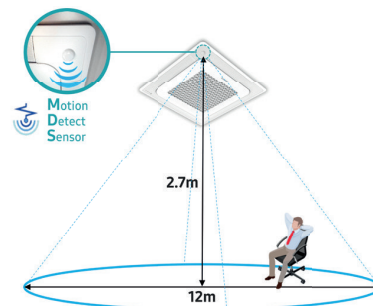
Smart Comfort Operation

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 Name				AM045NN4DEH/EU	AM056NN4DEH/EU	AM071NN4DEH/EU	AM090NN4DEH/EU
Power Supply	Φ, #, V, Hz			1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode	-			HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity	Cooling	kW	4,5	5,6	7,1	9
		Heating		5	6,3	8	10
Power	Power Input	Cooling	W	32	32	45	62
		Heating		32	32	45	62
	Current Input	Cooling	A	0,22	0,22	0,31	0,43
		Heating		0,22	0,22	0,31	0,43
	Current	MCA	A	0,3	0,3	0,4	0,6
		MFA		15	15	15	15
Fan	Type	-		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity	ea		1	1	1	1
	Airflow Rate H/M/L	m³/min l/s		14.5/13.5/12.5 242/225/208	15.0/14.0/13.0 250/233/217	17.0/15.5/14.5 283/258/242	19.5/18.0/16.5 325/300/275
Fan Motor	Model	-		BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
Piping Connections	Output x n	W		65 x 1	65 x 1	65 x 1	65 x 1
	Liquid Pipe	Φ,mm		6,35	6,35	9,52	9,52
		Φ, inch		1/4"	1/4"	3/8"	3/8"
	Gas Pipe	Φ,mm		12,7	12,7	15,88	15,88
		Φ, inch		1/2"	1/2"	5/8"	5/8"
Drain Pipe	Φ,mm			VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring Connections	Communication	Minimum	mm2	0,75	0,75	0,75	0,75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type	-		R410A	R410A	R410A	R410A
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	33.0/32.0/30.0	33.0/32.0/30.0	35.0/34.0/33.0	39.0/36.0/33.0
	Sound Power	Cooling		49	50	54	57
Dimensions	Net Weight	kg		15,5	15,5	15,5	15,5
	Net Dimensions (W×H×D)		mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
Panel	Model Name	-		PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
Drain Pump	Drain Pump	-		INCLUDED	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement		mm / Litre/h	750 / 24	750 / 24	750 / 24	750 / 24

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

AM112NN4DEH/EU	AM128NN4DEH/EU	AM140NN4DEH/EU
1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
HP/HR	HP/HR	HP/HR
11,2	12,8	14
12,5	13,8	16
78	73	89
78	73	89
0,55	0,51	0,62
0,55	0,51	0,62
0,9	0,8	0,9
15	15	15
Turbo Fan	Turbo Fan	Turbo Fan
1	1	1
26.0/24.0/22.0	28.0/26.0/23.0	30.0/28.0/26.0
433/400/367	467/433/383	500/467/433
BLDC Motor	BLDC Motor	BLDC Motor
65 x 1	97 x 1	97 x 1
9,52	9,52	9,52
3/8"	3/8"	3/8"
15,88	15,88	15,88
5/8"	5/8"	5/8"
VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
0,75	0,75	0,75
F1, F2	F1, F2	F1, F2
R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
40.0/38.0/35.0	42.0/40.0/35.0	44.0/41.0/35.0
57	58	60
17	19	19
840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
INCLUDED	INCLUDED	INCLUDED
750 / 24	750 / 24	750 / 24

Product Features

Wind-Free™ 1-Way Cassette

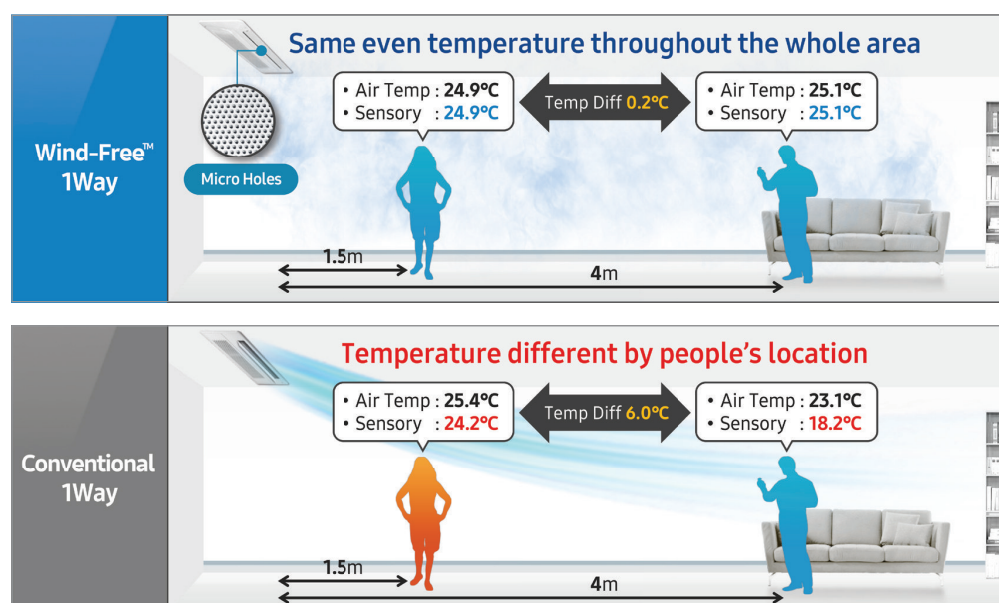
Wind-Free™ 1-Way Cassette

Wind-Free™ Cooling is Samsung's advanced technology. The Wind-Free™ 1-Way Cassette pushes air out through 10,000 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.

*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.

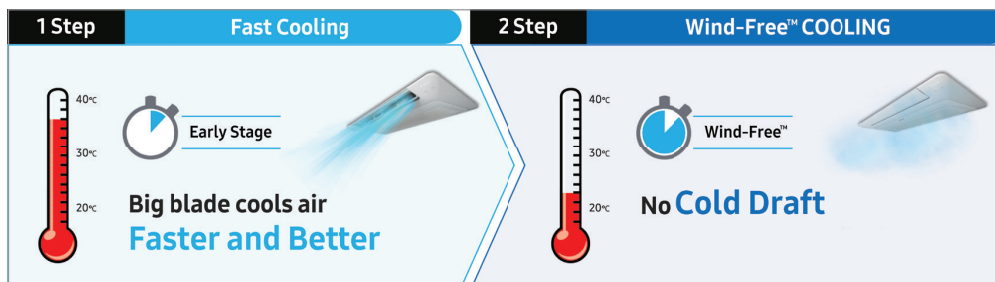


Even cooling



Smart Cooling mode

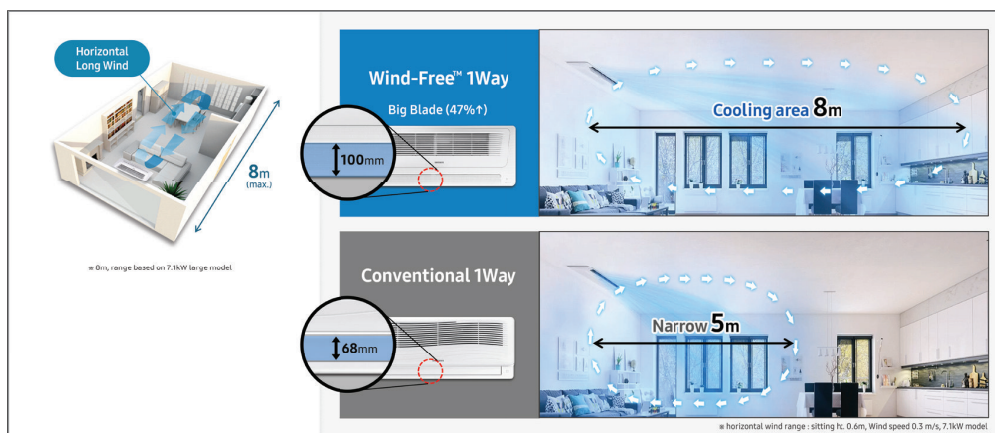
During the early stage of cooling, the Fast Cooling mode is used to quickly and efficiently cool the air by opening the blades and releasing powerful airflow. When the room reaches the target temperature, it automatically switches to Wind-Free™ Cooling mode to maintain the desired conditions by gently dispersing cool air.



Big blade, long air throw

The wider and bigger blade cools a large area much faster, without leaving any dead zones. It can deliver cool air up to 8m* with a wider operating angle, along with rapid and even cooling.

*Based on the 7.1kW indoor unit.



Specifications

Wind-Free™ 1-Way Cassette



Model				AM017NN1PEH/EU	AM022NN1PEH/EU	AM022NN1DEH/EU	AM028NN1DEH/EU
Power Supply	Φ, #, V, Hz			1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Performance	Capacity	Cooling	kW	1,7	2,2	2,2	2,8
		Heating		1,9	2,5	2,5	3,2
Power	Power Input	Cooling	W	24	25	40	45
		Heating		24	25	40	45
	Current Input	Cooling	A	0,14	0,15	0,2	0,23
		Heating		0,14	0,15	0,2	0,23
	Current	MCA	A	0,18	0,19	0,25	0,29
		MFA		15	15	15	15
Fan	Type	-		Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity	ea		1	1	1	1
	Airflow Rate	H/M/L	m³/min	4.80/4.30/4.10	5.10/4.60/4.30	6.00/5.00/4.00	7.00/6.00/5.00
Fan Motor	Model	-		80.00/71.67/68.33	85.00/76.67/71.67	100.00/83.33/66.67	116.67/100.00/83.33
	Output x n	W		BLDC Motor	BLDC Motor	AC Motor	AC Motor
				27 x 1	27 x 1	17 x 1	17 x 1
Piping Connections	Liquid Pipe	Φ, mm		6,35	6,35	6,35	6,35
		Φ, inch		1/4"	1/4"	1/4"	1/4"
	Gas Pipe	Φ, mm		12,7	12,7	12,7	12,7
		Φ, inch		1/2"	1/2"	1/2"	1/2"
	Drain Pipe	Φ, mm		VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)
Wiring Connections	Connection with Indoor	Minimum	mm²	0,75	0,75	0,75	0,75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type	-		R410A	R410A	R410A	R410A
	Electronic Expansion Valve	-		EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low	dB(A)	28 / 26 / 24	29 / 26 / 24	29 / 26 / 24	32 / 28 / 24
	Sound Power	Cooling		46	47	47	50
Dimension	Net Weight	kg		8	8	10	10
	Net Dimensions (WxHxD)	mm		740 x 135 x 360	740 x 135 x 360	970 x 135 x 410	970 x 135 x 410
Panel	Model Name	-		PC1MWFMAN	PC1MWFMAN	PC1NWFMAN	PC1NWFMAN
Drain pump			-	INCLUDED	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Litre/h		750 / 24	750 / 24	750 / 24	750 / 24

Accessories					
Individual Controllers (Optional)			Others (Optional)		
					
AR-EH03E	MWR-SH00N	MWR-SH10N	MWR-WE13N	PC1*WFMAN	MRW-TA

AM036NN1DEH/EU	AM056NN1DEH/EU	AM071NN1DEH/EU
1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
3,6	5,6	7,1
4	6,3	8
50	55	80
50	55	80
0,25	0,28	0,4
0,25	0,28	0,4
0,31	0,35	0,5
15	15	15
Crossflow Fan	Crossflow Fan	Crossflow Fan
1	1	1
8.00/7.00/6.00	16.00/14.00/12.50	17.00/15.50/14.00
133.33/116.67/100.00	266.67/233.33/208.33	283.33/258.33/233.33
AC Motor	BLDC Motor	BLDC Motor
17 x 1	54 x 1	54 x 1
6,35	6,35	9,52
1/4"	1/4"	3/8"
12,7	12,7	15,88
1/2"	1/2"	5/8"
VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)
0,75	0,75	0,75
F1, F2	F1, F2	F1, F2
R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
37 / 33 / 30	41 / 38 / 35	42 / 39 / 36
55	59	60
10	13,5	13,5
970 x 135 x 410	1200 x 138 x 450	1200 x 138 x 450
PC1NWFMAN	PC1BWFMAN	PC1BWFMAN
INCLUDED	INCLUDED	INCLUDED
750 / 24	750 / 24	750 / 24