

# Wind-Free 4Way Cassette

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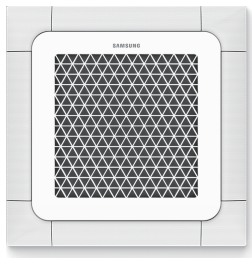
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# Features & Benefits

## Wind-Free 4Way Cassette

### Add chic flair to your interior design with a stylish yet powerful AC system

Samsung's advanced Wind-Free 4Way Cassette (600 x 600) builds on the aesthetic appeal and performance of the standard Wind-Free 4Way Cassette with an enhanced design. The Wind-Free 4Way Cassette (600 x 600) comes in a variety of patterns to complement any interior. The stylish cassette unit visually harmonizes with the indoor space, while efficient cooling and heating performance make it a dependable and practical air conditioning solution.



The Wind-Free 4Way Cassette (600 x 600) indoor air conditioning system provides high-performance heating and cooling in an elegant design with features such as:

- **Tasteful design and compact, lightweight build.** Create a polished ambiance with a discreetly sized design and a choice of attractive panel patterns.
- **Enhanced comfort control.** Optimize comfort and save energy with optional motion detection.
- **Low maintenance and powerful airflow.** Ease installation and maintenance and maximize airflow with an efficient design and robust performance.

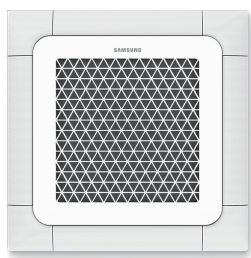
## Wind-Free 4Way Cassette (600 x 600) - Tasteful design, Compact, Lightweight build

### Refine the interior with an elegant, compact design

The enhanced Samsung Wind-Free 4Way Cassette (600 x 600) indoor air conditioner features a selection of simple panel patterns to blend seamlessly into any interior design. Its uniquely lightweight frame blends effortlessly and beautifully into any décor, while clever blade construction keeps the unit clean for a tidy appearance.

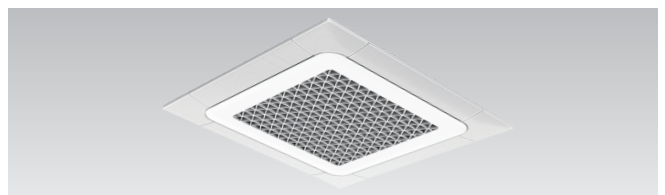
### Attractive panel and display

The Wind-Free 4Way Cassette (600 x 600) features a fashionable panel with a simple, beveled corner design. The rounded panel frame promotes a neat, tidy look for an aesthetic flair that blends perfectly with any ambience.



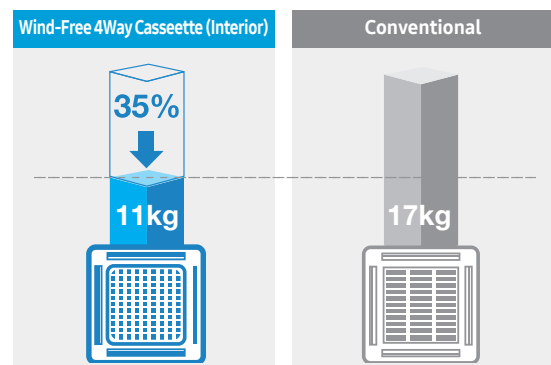
### Ultra-compact size

Samsung's Wind-Free 4Way Cassette (600 x 600) air conditioner can be installed on a single standard ceiling tile (600W x 600D) which helps minimize installation time and effort.



### Light, robust design

The Samsung Wind-Free 4Way Cassette (600 x 600) indoor unit is now lighter in weight at 11kg. It is the lightest indoor unit in the industry, about 35 percent lighter than our conventional products.



\*Based on 3.5kW

# 1. Specification

## Wind-Free 4Way Cassette

Model Name	Indoor Unit			AC052RN4DKG/EU	AC071RN4DKG/EU	AC100RN4DKG/EU	AC100RN4DKG/EU	
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.00 / 5.00 / 6.50	1.50 / 7.10 / 8.70	3.0 / 10.0 / 12.0	3.0 / 10.0 / 12.0	
			Btu/h	3,410 / 17,060 / 22,180	5,120 / 24,230 / 29,680	10,240 / 34,120 / 41,000	10,240 / 34,120 / 41,000	
		Heating	kW	1.00 / 6.00 / 7.00	1.90 / 8.00 / 9.00	2.2 / 11.2 / 15.5	2.2 / 11.2 / 15.5	
			Btu/h	3,410 / 20,470 / 23,880	6,480 / 27,300 / 30,710	7,500 / 38,210 / 52,900	7,500 / 38,210 / 52,900	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.33 / 1.43 / 2.30	0.35 / 2.38 / 3.60	0.60 / 3.42 / 4.70	0.60 / 3.32 / 4.70	
		Heating	kW	0.25 / 1.49 / 2.50	0.35 / 2.45 / 3.95	0.46 / 3.10 / 5.40	0.46 / 3.03 / 5.40	
	Current Input (Min/Std/Max)	Cooling	A	1.5 / 6.5 / 9.5	2.0 / 10.3 / 16.0	3.0 / 15.2 / 20.4	1.5 / 5.5 / 7.1	
		Heating	A	1.5 / 6.8 / 12.0	2.0 / 10.7 / 17.0	2.5 / 13.6 / 23.0	1.2 / 5.1 / 8.4	
	Current	MCA	A	17.5	17.5	25.0	17.1	
		MFA	A	20.6	20.6	30.0	17.1	
Efficiency	EER	Cooling	-	3.50	2.98	2.92	3.01	
	COP	Heating	-	4.03	3.27	3.61	3.69	
	SEER (Cooling Energy Grade)		-	7.6 (A++)	6.7 (A++)	7.0 (A++)	7.0 (A++)	
	SCOP (Heating Energy Grade)		-	4.3 (A+)	4.2 (A+)	4.3 (A+)	4.3 (A+)	
	Pdesignh		kW	2.6	4.5	5.3	5.3	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	5	
			Max.	30	50	50	50	
Elevation			20	30	30	30		
Chargeless			10	15	30	30		
Wiring connections	Communication	Min.	mm <sup>2</sup>	0.75	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	R32	
	Factory Charging	kg	1.2	1.7	2.7	2.7		
		tCO <sub>2</sub> e	0.81	1.15	1.82	1.82		
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	
Heat Exchanger	Type		-	F&T	F&T	F&T	F&T	
	Material	Fin	-	Al	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	Cu	
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	Green Hydrophile		
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo	Turbo	
	Quantity		EA	1	1	1	1	
	Air Flow Rate	Cooling (H/M/L)	m <sup>3</sup> /min	15.0 / 14.0 / 13.0	19.5 / 16.5 / 14.5	31.0 / 25.0 / 19.0	31.0 / 25.0 / 19.0	
			l/s	250 / 233.3 / 216.6	325 / 275 / 241.6	517 / 417 / 317	517 / 417 / 317	
		Heating (H/M/L)	m <sup>3</sup> /min	15.0 / 14.0 / 13.0	19.5 / 16.5 / 14.5	31.0 / 25.0 / 19.0	31.0 / 25.0 / 19.0	
l/s			250 / 233.3 / 216.6	325 / 275 / 241.6	517 / 417 / 317	517 / 417 / 317		
Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC	
	Output		W x n	65	65	97 x 1	97 x 1	

# 1. Specification

## Wind-Free 4Way Cassette

Model Name	Indoor Unit			AC052RN4DKG/EU	AC071RN4DKG/EU	AC100RN4DKG/EU	AC100RN4DKG/EU
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	33 / 31 / 29	36 / 33 / 29	44 / 39 / 33	44 / 39 / 33
	Sound Power Level		dB(A)	49	53	61	61
External Dimension	Net Weight		kg	14.5	14.5	18.0	18.0
	Shipping Weight		kg	18.5	18.5	22.0	22.0
	Net Dimensions (WxHxD)		mm	840 x 204 x 840	840 x 204 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping Dimensions (WxHxD)		mm	898 x 275 x 898	898 x 275 x 898	898 x 357 x 898	898 x 357 x 898
Casing	Material		-	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Panel (1)	Model Name		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	Type		-	Wind-Free Type	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	DA White	DA White	DA White	DA White
	Net Weight		kg	6.3	6.3	6.3	6.3
	Shipping Weight		kg	8.7	8.7	8.7	8.7
	Net Dimensions (WxHxD)		mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Shipping Dimensions (WxHxD)		mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Panel (2)	Model Name		-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (3)	Model Name		-	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	Black	Black	Black	Black
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (4)	Model Name		-	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN
	Type		-	Stripe Type	Stripe Type	Stripe Type	Stripe Type
	Material		-	ABS	ABS	ABS	ABS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	Included	Included	Included	Included
	Max. lifting Height / Displacement		mm / Liter / h	750/24	750/24	750/24	750/24
Additional Accessories	Drain Pump	External Model	-	-	-	-	-
		Internal Model	-	-	-	-	
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-	-
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	Removable / Washable
Virus Doctor		-	Option	Option	Option	Option	

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## Wind-Free 4Way Cassette

Model Name	Indoor Unit		AC052RN4DKG/EU	AC071RN4DKG/EU	AC100RN4DKG/EU	AC100RN4DKG/EU	
	Outdoor Unit		AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU	
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
Compressor	Model Name		-	UB9TK3150FE4	UB4TN8200FE4	UB8TN8300FJU	UB8TN8300FJU
	Type		-	Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC
	Output		kW	1.51	1.89	2.91	2.91
	Oil	Type	-	POE	POE	POE	POE
Initial charge		cc	500	650	1,200	1,200	
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front	Front
	Quantity		EA	1	1	1	1
	Air Flow Rate		m <sup>3</sup> /min	40	51	72	72
l/s			667	850	1,200	1,200	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	125 x 1	125 x 1	125 x 1	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	48	49	52	52
		Heating	dB(A)	48	51	54	54
	Sound Power Level		dB(A)	62	65	69	69
External Dimension	Net Weight		kg	43.0	51.0	75.0	74.0
	Shipping Weight		kg	46.5	55.0	80.0	79.0
	Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	1,023 x 742 x 413	1,023 x 896 x 413	995 x 1,096 x 426	995 x 1,096 x 426
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

### NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
  - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
  - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
  - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Select wire size based on the value of MCA
- 3) Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20uPa
- 4) Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level
  - Reference power : 1pW
  - Measured according to ISO 3741
- 5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.
- 6) 'MWR-WG00\*N' is new wired remote control type(Graphic).  
If you need the latest control system information, please refer to SAC control TDB.

# 1. Specification

## Wind-Free 4Way Cassette

	Model Name		Indoor Unit	AC120RN4DKG/EU	AC120RN4DKG/EU	AC140RN4DKG/EU	AC140RN4DKG/EU	
			Outdoor Unit	AC120RXADKG/EU	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity (Min/Std/Max)	Cooling	kW	3.5 / 12.0 / 13.5	3.5 / 12.0 / 13.5	3.5 / 13.4 / 15.5	3.5 / 13.4 / 15.5
				Btu/h	11,940 / 41,000 / 46,100	11,940 / 41,000 / 46,100	11,940 / 45,720 / 52,900	11,940 / 45,720 / 52,900
			Heating	kW	3.5 / 13.2 / 15.5	3.5 / 13.2 / 15.5	3.5 / 15.5 / 18.0	3.5 / 15.5 / 18.0
				Btu/h	11,940 / 45,040 / 52,900	11,940 / 45,040 / 52,900	11,940 / 52,900 / 61,420	11,940 / 52,900 / 61,420
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.90 / 4.60 / 5.30	0.90 / 4.45 / 5.50	0.80 / 4.62 / 6.45	0.80 / 4.62 / 6.60
			Heating	kW	0.75 / 4.15 / 5.60	0.75 / 4.05 / 6.40	0.70 / 4.90 / 7.36	0.70 / 4.76 / 7.50
		Current Input (Min/Std/Max)	Cooling	A	4.3 / 20.1 / 24.0	2.1 / 6.8 / 10.0	3.7 / 20.0 / 28.0	2.1 / 7.1 / 10.5
			Heating	A	3.7 / 18.2 / 26.0	2.1 / 6.3 / 12.0	3.5 / 21.3 / 32.0	1.9 / 7.3 / 12.0
		Current	MCA	A	25.0	17.1	33.0	17.1
	MFA		A	30.0	17.1	40.0	17.1	
	Efficiency	EER	Cooling	-	2.60	2.69	2.90	2.90
		COP	Heating	-	3.18	3.26	3.16	3.25
		SEER (Cooling Energy Grade)		-	6.0 (A+)	6.0 (A+)	6.6 (-)	6.6 (-)
		SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)	4.3 (-)	4.3 (-)
		Pdesignh		kW	6.5	6.5	8.4	8.4
	Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
Piping length (ODU-IDU)		Standard	m		5	5	5	5
			Max.	m	50	50	75	75
			Elevation	m	30	30	30	30
	Chargeless		m	30	30	30	30	
Wiring connections	Communication	Min.	mm <sup>2</sup>	0.75	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	R32	
	Factory Charging	kg		2.7	2.7	2.9	2.9	
		tCO <sub>2</sub> e		1.82	1.82	1.96	1.96	
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type		-	F&T	F&T	F&T	F&T
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment			-	Green Hydrophile	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Fan	Type		-	Turbo	Turbo	Turbo	Turbo
		Quantity		EA	1	1	1	1
		Air Flow Rate	Cooling (H/M/L)	m <sup>3</sup> /min	32.0 / 26.0 / 20.0	32.0 / 26.0 / 20.0	32.0 / 27.0 / 22.0	32.0 / 27.0 / 22.0
				l/s	533 / 433 / 333	533 / 433 / 333	533 / 450 / 367	533 / 450 / 367
			Heating (H/M/L)	m <sup>3</sup> /min	32.0 / 26.0 / 20.0	32.0 / 26.0 / 20.0	32.0 / 27.0 / 22.0	32.0 / 27.0 / 22.0
				l/s	533 / 433 / 333	533 / 433 / 333	533 / 450 / 367	533 / 450 / 367
	Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC
Output		W x n	97 x 1	97 x 1	97 x 1	97 x 1		

# 1. Specification

## Wind-Free 4Way Cassette

Model Name	Indoor Unit			AC120RN4DKG/EU	AC120RN4DKG/EU	AC140RN4DKG/EU	AC140RN4DKG/EU
	Outdoor Unit			AC120RXADKG/EU	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	45 / 40 / 35	45 / 40 / 35	45 / 41 / 37	45 / 41 / 37
	Sound Power Level		dB(A)	61	61	61	61
External Dimension	Net Weight		kg	18.0	18.0	20.0	20.0
	Shipping Weight		kg	22.0	22.0	24.0	24.0
	Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898
Casing	Material		-	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Panel (1)	Model Name		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	Type		-	Wind-Free Type	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	DA White	DA White	DA White	DA White
	Net Weight		kg	6.3	6.3	6.3	6.3
	Shipping Weight		kg	8.7	8.7	8.7	8.7
	Net Dimensions (WxHxD)		mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Shipping Dimensions (WxHxD)		mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Panel (2)	Model Name		-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (3)	Model Name		-	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	Black	Black	Black	Black
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (4)	Model Name		-	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN
	Type		-	Stripe Type	Stripe Type	Stripe Type	Stripe Type
	Material		-	ABS	ABS	ABS	ABS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	Included	Included	Included	Included
	Max. lifting Height / Displacement		mm / Liter / h	750/24	750/24	750/24	750/24
Additional Accessories	Drain Pump	External Model	-	-	-	-	-
		Internal Model	-	-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-	-
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	Removable / Washable
Virus Doctor		-	Option	Option	Option	Option	

# 1. Specification

## Wind-Free 4Way Cassette

	Model Name		Indoor Unit	AC120RN4DKG/EU	AC120RN4DKG/EU	AC140RN4DKG/EU	AC140RN4DKG/EU	
			Outdoor Unit	AC120RXADKG/EU	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
	Compressor	Model Name		-	UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX
		Type		-	Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC
		Output		kW	4.25	4.25	4.25	4.25
		Oil	Type	-	POE	POE	POE	POE
	Initial charge		cc	1,700	1,700	1,700	1,700	
	Fan	Type		-	Propeller	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front	Front
		Quantity		EA	1	1	2	2
		Air Flow Rate	m <sup>3</sup> /min		72	72	110	110
	l/s		1,200	1,200	1,833	1,833		
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	54	54	53	53
			Heating	dB(A)	56	56	54	54
		Sound Power Level		dB(A)	70	70	69	69
External Dimension	Net Weight		kg	81.0	80.0	91.5	90.5	
	Shipping Weight		kg	86.0	85.0	100.0	99.0	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,388 x 426	995 x 1,388 x 426	
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	

### NOTE

- Specification may be subject to change without prior notice.
  - 1) Performances are based on the following test conditions.
    - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
    - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
    - Equivalent refrigerant pipe length 5m, Level differences 0m
  - 2) Select wire size based on the value of MCA
  - 3) Sound pressure level is obtained in an anechoic room.
    - Sound pressure level is a relative value, depending on the distance and acoustic environment.
    - Sound pressure level may differ depending on operation condition.
    - dBA = A-weighted sound pressure level
    - Reference acoustic pressure 0 dB = 20uPa
  - 4) Sound power level is an absolute value that a sound source generates.
    - dBA = A-weighted sound power level
    - Reference power : 1pW
    - Measured according to ISO 3741
  - 5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.
  - 6) 'MWR-WG00\*N' is new wired remote control type(Graphic).  
If you need the latest control system information, please refer to SAC control TDB.



## 2. Summary Table

### Wind-Free 4Way Cassette

#### Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC052RN4DKG/EU	15.0	Max.	6.50	7.00	High	15.0	36	53
		Std.	5.00	6.00	Mid	14.0	33	
		Min.	1.00	1.00	Low	13.0	29	
AC071RN4DKG/EU	15.0	Max.	8.70	9.00	High	19.5	36	53
		Std.	7.10	8.00	Mid	16.5	33	
		Min.	1.50	1.90	Low	14.5	29	
AC100RN4DKG/EU	18.0	Max.	12.00	15.50	High	31.0	44	61
		Std.	10.00	11.20	Mid	25.0	39	
		Min.	3.00	2.20	Low	19.0	33	
AC120RN4DKG/EU	18.0	Max.	13.50	15.50	High	32.0	45	61
		Std.	12.00	13.20	Mid	26.0	40	
		Min.	3.50	3.50	Low	20.0	35	
AC140RN4DKG/EU	20.0	Max.	15.50	18.00	High	32.0	45	61
		Std.	13.40	15.50	Mid	27.0	41	
		Min.	3.50	3.50	Low	22.0	37	

#### NOTE

- Sound data is based on cooling operation.

#### Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range		Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)	
			Volts	Min.	Max.	Cooling					Heating
AC052RN4DKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
AC071RN4DKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
AC100RN4DKG/EU	AC100RXADKG/EU	50	220 to 240	198	264	24.0	24.0	1.0	25.0	25.0	30.0
AC100RN4DKG/EU	AC100RXADNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.0	17.1	17.1	17.1
AC120RN4DKG/EU	AC120RXADKG/EU	50	220 to 240	198	264	24.0	24.0	1.0	25.0	25.0	30.0
AC120RN4DKG/EU	AC120RXADNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.0	17.1	17.1	17.1
AC140RN4DKG/EU	AC140RXADKG/EU	50	220 to 240	198	264	32.0	32.0	1.0	33.0	33.0	40.0
AC140RN4DKG/EU	AC140RXADNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.0	17.1	17.1	17.1

#### NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (1) AC052RN4DKG/EU+AC052RXADKG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
kW																					
-15	4.9	4.0	1.02	5.1	4.1	1.04	5.3	4.3	1.07	5.5	4.4	1.09	5.6	4.4	1.10	5.9	4.3	1.11	6.2	4.2	1.13
21	4.6	3.8	1.08	4.9	4.0	1.10	5.1	4.1	1.12	5.3	4.2	1.14	5.4	4.2	1.16	5.6	4.1	1.17	5.9	4.0	1.19
35	4.4	3.7	1.35	4.7	3.8	1.37	4.9	3.9	1.40	5.0	4.0	1.43	5.1	4.0	1.44	5.4	3.9	1.46	5.6	3.8	1.49
46	3.8	3.4	1.21	4.0	3.5	1.24	4.1	3.6	1.26	4.3	3.7	1.29	4.3	3.7	1.30	4.6	3.6	1.31	4.8	3.6	1.34
50	2.9	2.7	1.08	3.0	2.8	1.10	3.2	2.8	1.12	3.3	2.9	1.14	3.3	2.9	1.16	3.5	2.9	1.17	3.7	2.8	1.19

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
kW												
-20	4.2	1.98	4.2	1.96	4.1	1.94	4.1	1.92	4.1	1.90	4.0	1.88
-15	5.3	2.28	5.3	2.26	5.2	2.24	5.2	2.21	5.1	2.19	5.1	2.17
-5	6.0	2.13	5.9	2.11	5.9	2.09	5.8	2.07	5.8	2.04	5.7	2.02
0	6.2	1.82	6.2	1.81	6.1	1.79	6.1	1.77	6.0	1.75	5.9	1.73
7	6.1	1.52	6.1	1.50	6.0	1.49	5.9	1.48	5.9	1.46	5.8	1.45
24	8.0	1.75	7.9	1.73	7.8	1.71	7.7	1.70	7.6	1.68	7.6	1.66

#### NOTE

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (2) AC071RN4DKG/EU+AC071RXADKG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.9	5.1	1.70	7.3	5.3	1.74	7.6	5.5	1.77	7.8	5.6	1.81	8.0	5.6	1.83	8.4	5.5	1.84	8.8	5.4	1.88
21	6.6	4.9	1.79	6.9	5.0	1.83	7.2	5.2	1.87	7.5	5.4	1.90	7.6	5.3	1.92	8.0	5.2	1.94	8.4	5.1	1.98
35	6.3	4.7	2.24	6.6	4.8	2.29	6.9	4.9	2.33	7.1	5.1	2.38	7.2	5.0	2.40	7.6	5.0	2.43	8.0	4.9	2.48
46	5.3	4.4	2.02	5.6	4.5	2.06	5.9	4.6	2.10	6.0	4.8	2.14	6.2	4.7	2.16	6.5	4.7	2.18	6.8	4.6	2.23
50	4.1	3.4	1.79	4.3	3.6	1.83	4.5	3.7	1.87	4.6	3.8	1.90	4.7	3.7	1.92	4.9	3.7	1.94	5.2	3.6	1.98

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	3.25	5.6	3.22	5.5	3.19	5.5	3.15	5.4	3.12	5.4	3.09
-15	7.1	3.75	7.0	3.71	7.0	3.68	6.9	3.64	6.8	3.60	6.8	3.57
-5	8.0	3.50	7.9	3.46	7.8	3.43	7.8	3.40	7.7	3.36	7.6	3.33
0	8.3	3.00	8.2	2.97	8.2	2.94	8.1	2.91	8.0	2.88	7.9	2.85
7	8.2	2.50	8.1	2.47	8.0	2.45	7.9	2.43	7.8	2.40	7.8	2.38
24	10.6	2.87	10.5	2.85	10.4	2.82	10.3	2.79	10.2	2.76	10.1	2.73

#### NOTE

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (3) AC100RN4DKG/EU+AC100RXADKG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.8	2.45	10.3	8.1	2.50	10.7	8.3	2.55	11.0	8.6	2.60	11.2	8.5	2.63	11.8	8.4	2.65	12.4	8.3	2.70
21	9.3	7.5	2.58	9.8	7.7	2.63	10.2	7.9	2.68	10.5	8.2	2.74	10.7	8.1	2.76	11.2	8.0	2.79	11.8	7.9	2.85
35	8.8	7.1	3.22	9.3	7.3	3.28	9.7	7.6	3.35	10.0	7.8	3.42	10.2	7.7	3.45	10.7	7.6	3.49	11.2	7.5	3.56
46	7.5	6.6	3.38	7.9	6.8	3.45	8.2	7.0	3.52	8.5	7.3	3.59	8.7	7.2	3.63	9.1	7.1	3.66	9.6	7.0	3.74
50	5.8	5.2	2.80	6.1	5.4	2.86	6.3	5.5	2.92	6.5	5.7	2.98	6.6	5.7	3.01	7.0	5.6	3.03	7.3	5.5	3.10

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.11	7.8	4.07	7.7	4.03	7.7	3.99	7.6	3.95	7.5	3.91
-15	9.9	4.43	9.8	4.38	9.7	4.34	9.6	4.30	9.6	4.25	9.5	4.21
-5	11.2	4.74	11.1	4.70	11.0	4.65	10.9	4.60	10.8	4.56	10.7	4.51
0	11.7	3.79	11.5	3.76	11.4	3.72	11.3	3.68	11.2	3.65	11.1	3.61
7	11.4	3.16	11.3	3.13	11.2	3.10	11.1	3.07	11.0	3.04	10.9	3.01
24	14.9	3.64	14.7	3.60	14.6	3.57	14.4	3.53	14.3	3.49	14.1	3.46

#### NOTE

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (4) AC100RN4DKG/EU+AC100RXADNG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.8	2.37	10.3	8.1	2.42	10.7	8.3	2.47	11.0	8.6	2.52	11.2	8.5	2.55	11.8	8.4	2.57	12.4	8.3	2.63
21	9.3	7.5	2.50	9.8	7.7	2.55	10.2	7.9	2.60	10.5	8.2	2.66	10.7	8.1	2.68	11.2	8.0	2.71	11.8	7.9	2.76
35	8.8	7.1	3.12	9.3	7.3	3.19	9.7	7.6	3.25	10.0	7.8	3.32	10.2	7.7	3.35	10.7	7.6	3.39	11.2	7.5	3.45
46	7.8	7.0	3.44	8.2	7.2	3.51	8.5	7.4	3.58	8.8	7.6	3.65	9.0	7.6	3.69	9.4	7.5	3.73	9.9	7.3	3.80
50	6.4	5.9	3.06	6.7	6.1	3.12	7.0	6.3	3.19	7.2	6.5	3.25	7.3	6.4	3.29	7.7	6.4	3.32	8.1	6.2	3.39

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.02	7.8	3.98	7.7	3.94	7.7	3.90	7.6	3.86	7.5	3.82
-15	9.9	4.33	9.8	4.28	9.7	4.24	9.6	4.20	9.6	4.16	9.5	4.12
-5	11.2	4.64	11.1	4.59	11.0	4.55	10.9	4.50	10.8	4.45	10.7	4.41
0	11.7	3.71	11.5	3.67	11.4	3.64	11.3	3.60	11.2	3.56	11.1	3.53
7	11.4	3.09	11.3	3.06	11.2	3.03	11.1	3.00	11.0	2.97	10.9	2.94
24	14.9	3.55	14.7	3.52	14.6	3.48	14.4	3.45	14.3	3.42	14.1	3.38

#### NOTE

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (5) AC120RN4DKG/EU+AC120RXADKG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	8.8	3.29	12.3	9.1	3.36	12.8	9.4	3.43	13.2	9.7	3.50	13.5	9.6	3.53	14.2	9.5	3.57	14.9	9.3	3.64
21	11.1	8.4	3.46	11.7	8.7	3.53	12.2	8.9	3.61	12.6	9.2	3.68	12.9	9.1	3.72	13.5	9.0	3.75	14.2	8.8	3.83
35	10.6	8.0	4.33	11.2	8.2	4.42	11.6	8.5	4.51	12.0	8.8	4.60	12.2	8.7	4.65	12.9	8.6	4.69	13.5	8.4	4.79
46	9.0	7.5	3.90	9.5	7.7	3.98	9.9	7.9	4.06	10.2	8.2	4.14	10.4	8.1	4.18	10.9	8.0	4.22	11.5	7.9	4.31
50	6.9	5.9	3.46	7.3	6.1	3.53	7.6	6.3	3.61	7.8	6.5	3.68	8.0	6.4	3.72	8.4	6.3	3.75	8.8	6.2	3.83

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.50	9.2	5.45	9.1	5.40	9.0	5.34	8.9	5.29	8.8	5.23
-15	11.7	5.93	11.6	5.87	11.5	5.81	11.4	5.75	11.3	5.69	11.1	5.64
-5	13.2	6.14	13.1	6.08	12.9	6.02	12.8	5.96	12.7	5.90	12.6	5.84
0	13.7	5.08	13.6	5.03	13.5	4.98	13.3	4.93	13.2	4.88	13.1	4.83
7	13.5	4.23	13.3	4.19	13.2	4.15	13.1	4.11	12.9	4.07	12.8	4.03
24	17.5	4.87	17.3	4.82	17.2	4.77	17.0	4.72	16.8	4.68	16.7	4.63

#### NOTE

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (6) AC120RN4DKG/EU+AC120RXADNG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	8.8	3.18	12.3	9.1	3.25	12.8	9.4	3.31	13.2	9.7	3.38	13.5	9.6	3.42	14.2	9.5	3.45	14.9	9.3	3.52
21	11.1	8.4	3.35	11.7	8.7	3.42	12.2	8.9	3.49	12.6	9.2	3.56	12.9	9.1	3.60	13.5	9.0	3.63	14.2	8.8	3.70
35	10.6	8.0	4.19	11.2	8.2	4.27	11.6	8.5	4.36	12.0	8.8	4.45	12.2	8.7	4.49	12.9	8.6	4.54	13.5	8.4	4.63
46	9.0	7.5	3.77	9.5	7.7	3.85	9.9	7.9	3.92	10.2	8.2	4.01	10.4	8.1	4.05	10.9	8.0	4.09	11.5	7.9	4.17
50	6.9	5.9	3.35	7.3	6.1	3.42	7.6	6.3	3.49	7.8	6.5	3.56	8.0	6.4	3.60	8.4	6.3	3.63	8.8	6.2	3.70

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.37	9.2	5.32	9.1	5.27	9.0	5.21	8.9	5.16	8.8	5.11
-15	11.7	5.78	11.6	5.73	11.5	5.67	11.4	5.61	11.3	5.56	11.1	5.50
-5	13.2	5.99	13.1	5.93	12.9	5.87	12.8	5.81	12.7	5.76	12.6	5.70
0	13.7	4.96	13.6	4.91	13.5	4.86	13.3	4.81	13.2	4.76	13.1	4.72
7	13.5	4.13	13.3	4.09	13.2	4.05	13.1	4.01	12.9	3.97	12.8	3.93
24	17.5	4.75	17.3	4.70	17.2	4.66	17.0	4.61	16.8	4.56	16.7	4.52

#### NOTE

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (7) AC140RN4DKG/EU+AC140RXADKG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.5	3.30	13.8	9.8	3.37	14.3	10.1	3.44	14.8	10.4	3.51	15.1	10.3	3.55	15.8	10.2	3.58	16.6	10.0	3.65
21	12.4	9.0	3.48	13.1	9.3	3.55	13.6	9.6	3.62	14.1	9.9	3.70	14.4	9.8	3.73	15.1	9.7	3.77	15.8	9.5	3.85
35	11.9	8.6	4.35	12.5	8.8	4.44	13.0	9.1	4.53	13.4	9.4	4.62	13.7	9.3	4.67	14.4	9.2	4.71	15.1	9.0	4.81
46	10.1	8.1	3.91	10.6	8.3	3.99	11.0	8.6	4.07	11.4	8.8	4.16	11.6	8.7	4.20	12.2	8.6	4.24	12.8	8.5	4.33
50	7.7	6.4	3.48	8.1	6.6	3.55	8.4	6.8	3.62	8.7	7.0	3.70	8.9	6.9	3.73	9.3	6.8	3.77	9.8	6.7	3.85

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.50	10.2	5.44	10.1	5.39	10.0	5.34	9.9	5.28	9.8	5.23
-15	13.8	6.50	13.6	6.43	13.5	6.37	13.4	6.31	13.2	6.24	13.1	6.18
-5	15.5	7.00	15.3	6.93	15.2	6.86	15.0	6.79	14.9	6.72	14.7	6.66
0	16.1	6.00	16.0	5.94	15.8	5.88	15.7	5.82	15.5	5.76	15.3	5.71
7	15.8	5.00	15.7	4.95	15.5	4.90	15.3	4.85	15.2	4.80	15.0	4.75
24	20.6	5.75	20.4	5.69	20.2	5.64	19.9	5.58	19.7	5.52	19.6	5.47

#### NOTE

- The performance table shows the average value of each conditions.



# 3. Capacity Table

## Wind-Free 4Way Cassette

### (8) AC140RN4DKG/EU+AC140RXADNG/EU

#### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.5	3.30	13.8	9.8	3.37	14.3	10.1	3.44	14.8	10.4	3.51	15.1	10.3	3.55	15.8	10.2	3.58	16.6	10.0	3.65
21	12.4	9.0	3.48	13.1	9.3	3.55	13.6	9.6	3.62	14.1	9.9	3.70	14.4	9.8	3.73	15.1	9.7	3.77	15.8	9.5	3.85
35	11.9	8.6	4.35	12.5	8.8	4.44	13.0	9.1	4.53	13.4	9.4	4.62	13.7	9.3	4.67	14.4	9.2	4.71	15.1	9.0	4.81
46	10.1	8.3	3.91	10.6	8.5	3.99	11.0	8.8	4.07	11.4	9.1	4.16	11.6	9.0	4.20	12.2	8.9	4.24	12.8	8.7	4.33
50	7.7	6.6	3.48	8.1	6.8	3.55	8.4	7.0	3.62	8.7	7.2	3.70	8.9	7.2	3.73	9.3	7.1	3.77	9.8	6.9	3.85

#### Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.34	10.2	5.29	10.1	5.24	10.0	5.18	9.9	5.13	9.8	5.08
-15	13.8	6.31	13.6	6.25	13.5	6.19	13.4	6.13	13.2	6.06	13.1	6.00
-5	15.5	6.80	15.3	6.73	15.2	6.66	15.0	6.60	14.9	6.53	14.7	6.47
0	16.1	5.83	16.0	5.77	15.8	5.71	15.7	5.65	15.5	5.60	15.3	5.54
7	15.8	4.86	15.7	4.81	15.5	4.76	15.3	4.71	15.2	4.67	15.0	4.62
24	20.6	5.58	20.4	5.53	20.2	5.47	19.9	5.42	19.7	5.37	19.6	5.31

#### NOTE

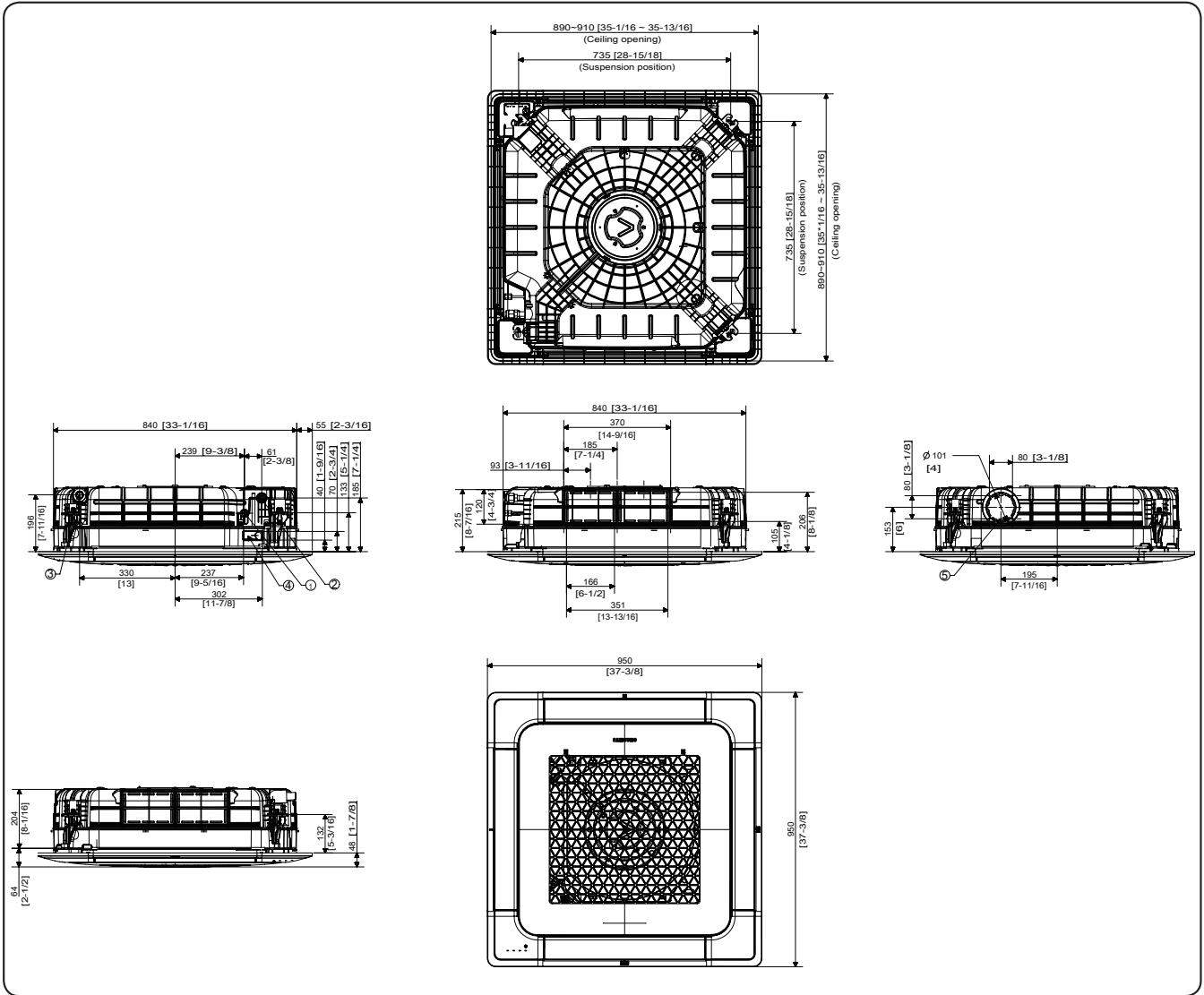
- The performance table shows the average value of each conditions.

# 4. Dimensional Drawing

## Wind-Free 4Way Cassette

AC052/071RN4DKG/EU

Units : mm [inches]



No.	Name	Description	
		AC052RN4DKG/EU	AC071RN4DKG/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit		
5	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw	

### NOTE

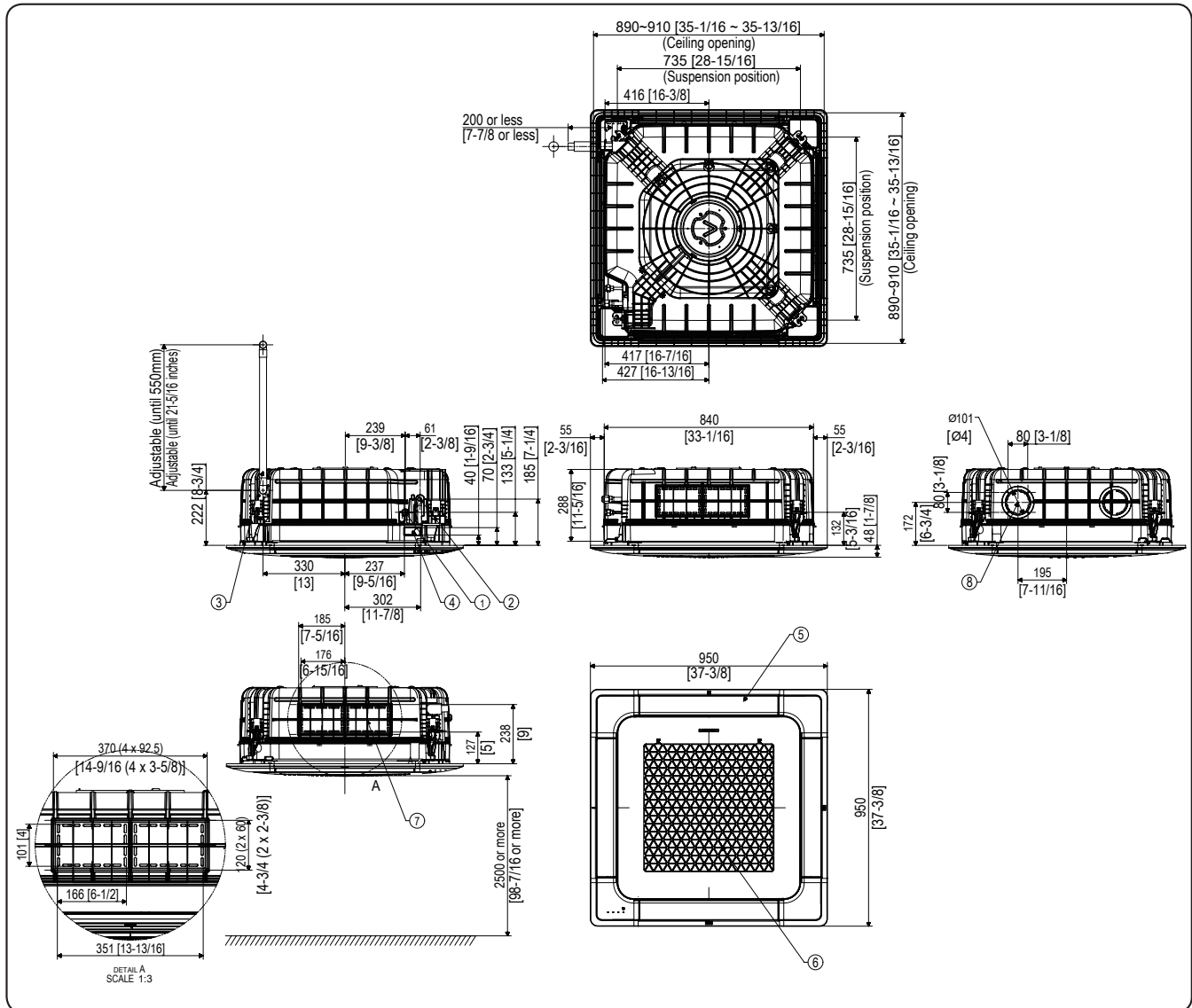
- As for suspension bolt, please use M8 ~ M10.  
(Procured at local site)

# 4. Dimensional Drawing

## Wind-Free 4Way Cassette

AC100/120/140RN4DKG/EU

Units : mm [inches]



No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Drain pipe connection	VP25(OD32, ID25)
4	Conduit for power supply & communication wiring	
5	Air inlet grille	
6	Air outlet louver	
7	Sub-duct	* The sub duct is not applicable to the Wind-Free Panel.
8	Fresh air intake	

### NOTE

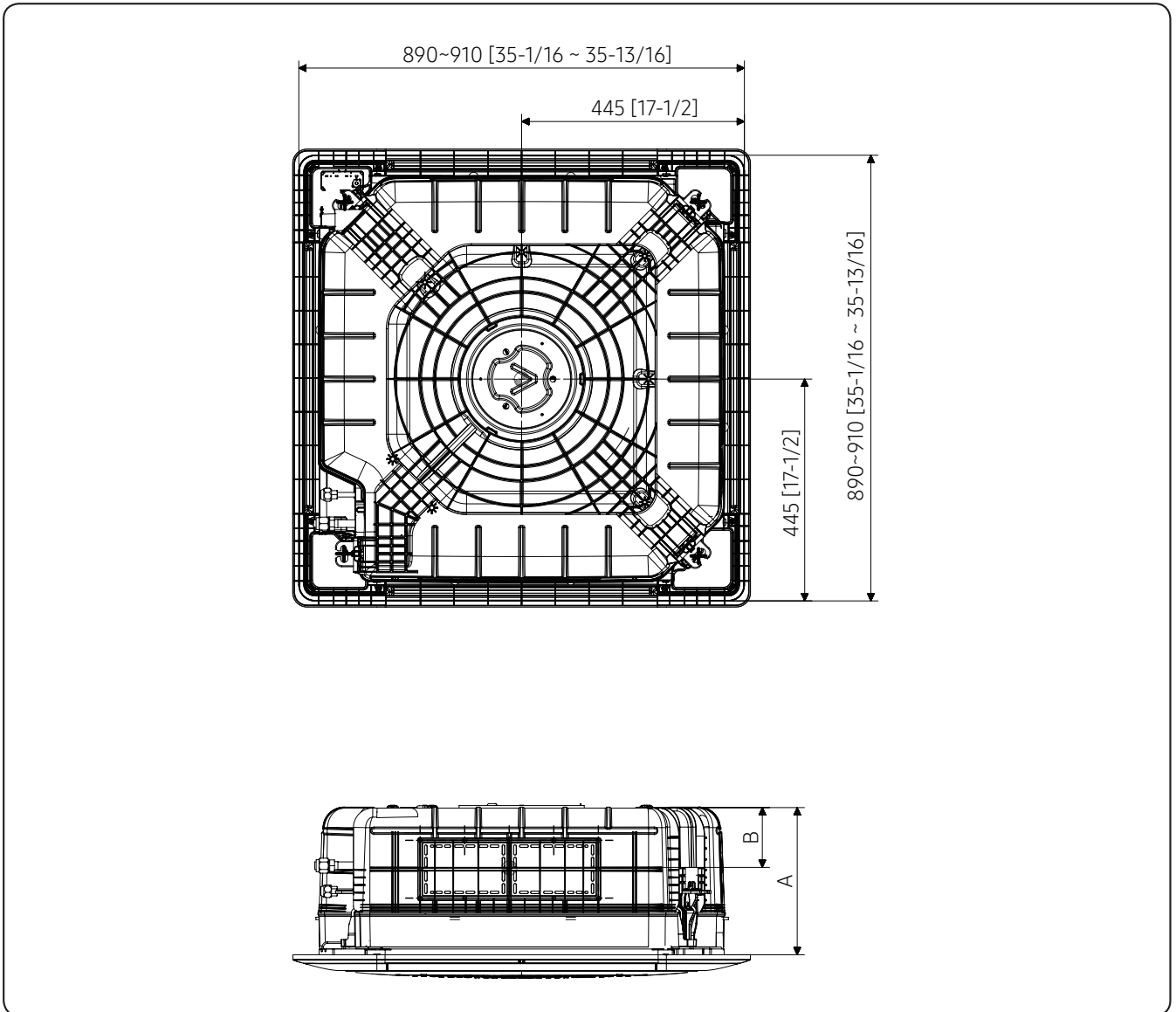
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)

# 5. Center of Gravity

## Wind-Free 4Way Cassette

AC052/071/100/120/140RN4DKG/EU

Units : mm [inches]

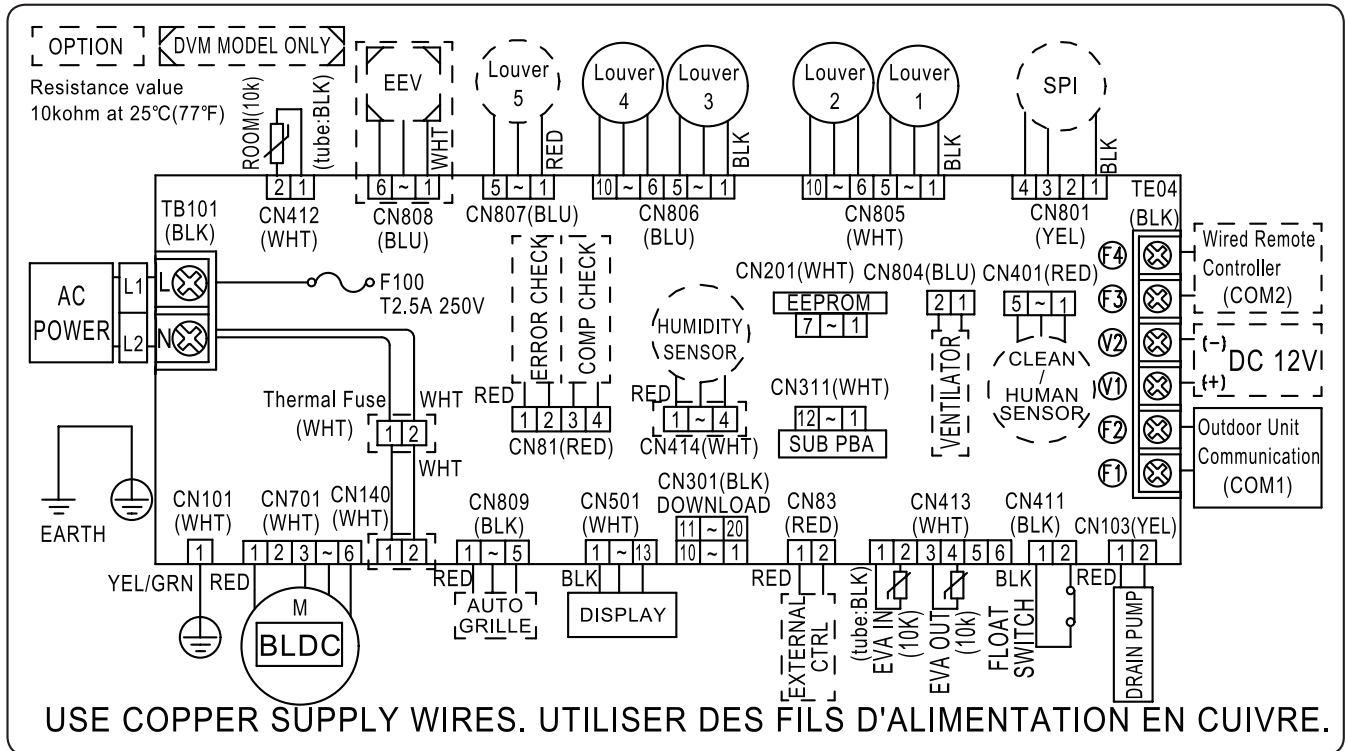


	A	B
~ 7.1kW	221 [8-11/16]	70 [2-3/4]
9kW ~ 14kW	305 [12]	130 [5-1/8]

# 6. Electrical Wiring Diagram

## Wind-Free 4Way Cassette

AC052/071/100/120/140RN4DKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
FLOAT SWITCH	Switch of the float of Drain	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

### NOTE

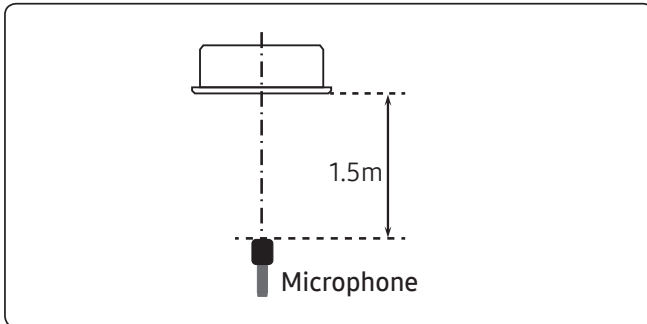
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :  
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw)

# 7. Sound Data

## Wind-Free 4Way Cassette

### Sound Pressure level

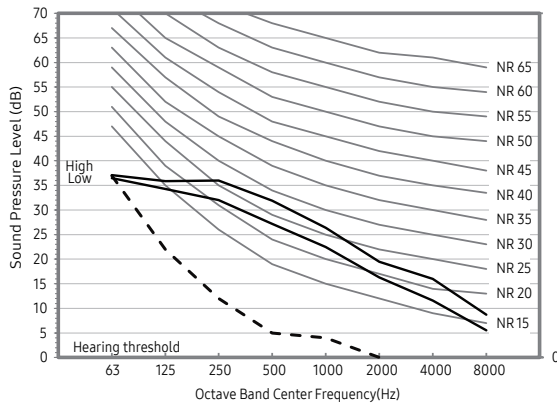
Unit: dB(A)



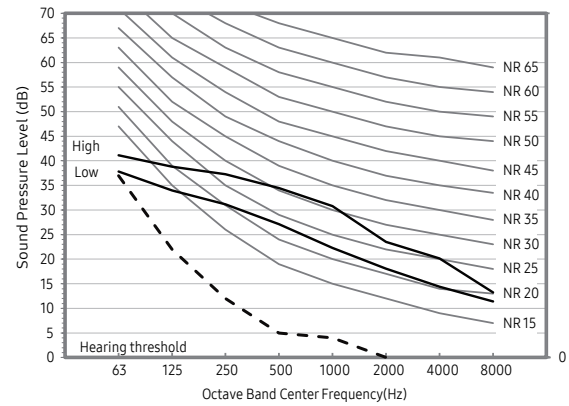
Model	HIGH	MID	LOW
AC052RN4DKG/EU	33	31	29
AC071RN4DKG/EU	36	33	29
AC100RN4DKG/EU	44	39	33
AC120RN4DKG/EU	45	40	35

- NR Curve

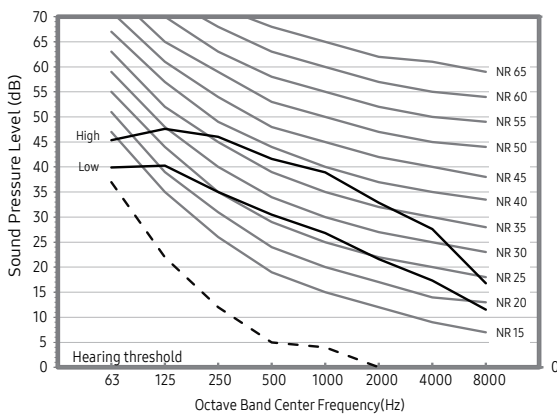
1) AC052RN4DKG/EU



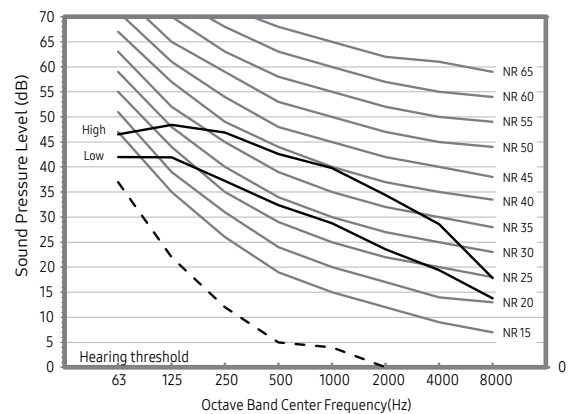
2) AC071RN4DKG/EU



3) AC100RN4DKG/EU



4) AC120RN4DKG/EU



**NOTE**

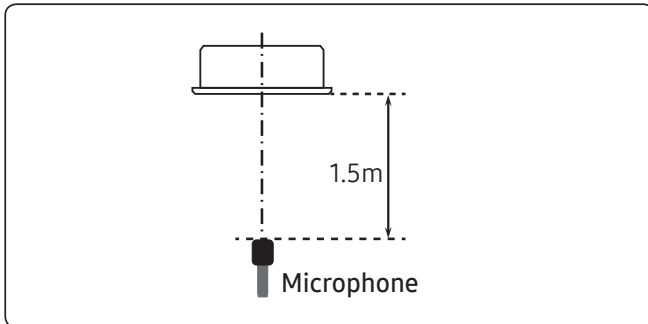
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 7. Sound Data

## Wind-Free 4Way Cassette

### Sound Pressure level

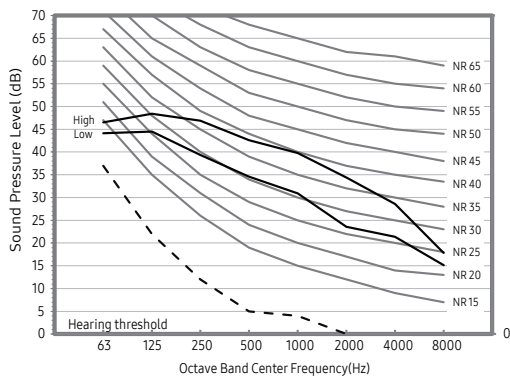
Unit: dB(A)



Model	HIGH	MID	LOW
AC140RN4DKG/EU	45	41	37

- NR Curve

5) AC140RN4DKG/EU



### NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 7. Sound Data

## Wind-Free 4Way Cassette

### Sound Power level

**NOTE**

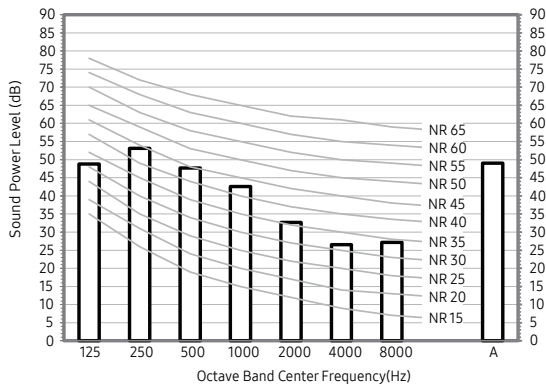
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dB(A) = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

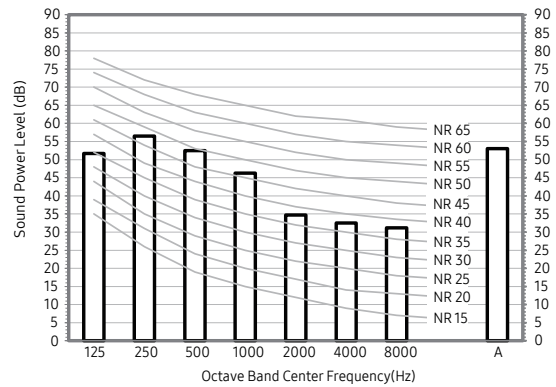
Model	Power
AC052RN4DKG/EU	49
AC071RN4DKG/EU	53
AC100RN4DKG/EU	61
AC120RN4DKG/EU	61

• NR Curve

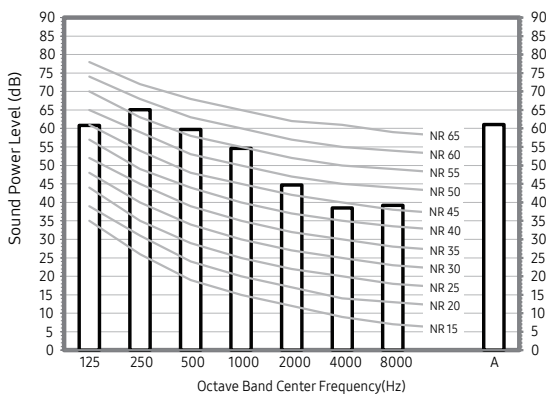
1) AC052RN4DKG/EU



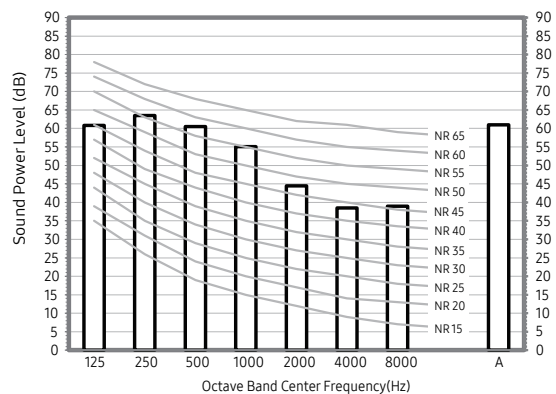
2) AC071RN4DKG/EU



3) AC100RN4DKG/EU



4) AC120RN4DKG/EU





# 7. Sound Data

## Wind-Free 4Way Cassette

### Sound Power level

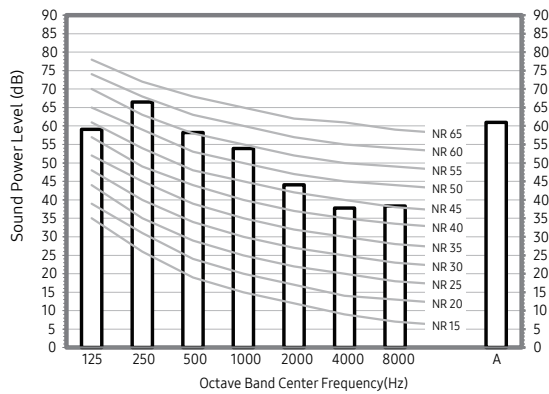
**NOTE**

- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AC140RN4DKG/EU	61

- NR Curve  
5) AC140RN4DKG/EU



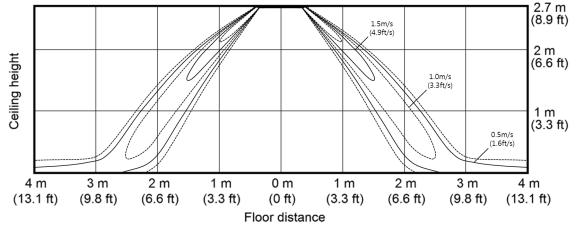
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC052RN4DKG/EU

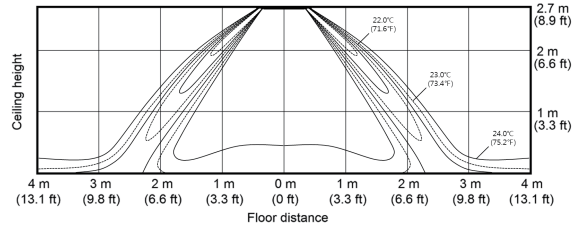
- Cooling Air Velocity distribution

(Discharge angle : 45 degree)



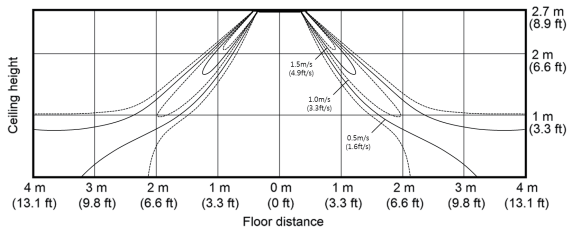
- Cooling temperature distribution

(Discharge angle : 45 degree)



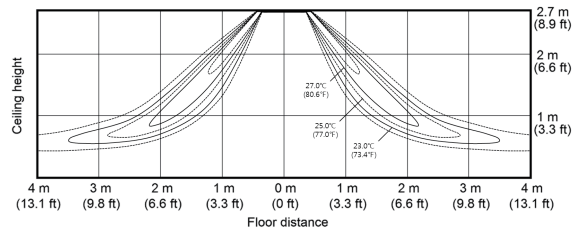
- Heating Air Velocity distribution

(Discharge angle : 52 degree)



- Heating temperature distribution

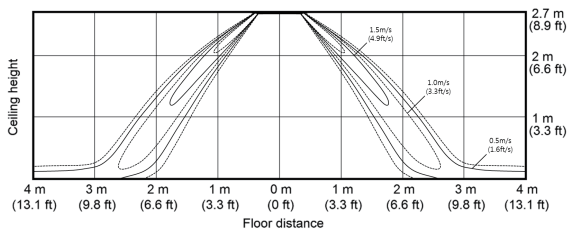
(Discharge angle : 52 degree)



### AC071RN4DKG/EU

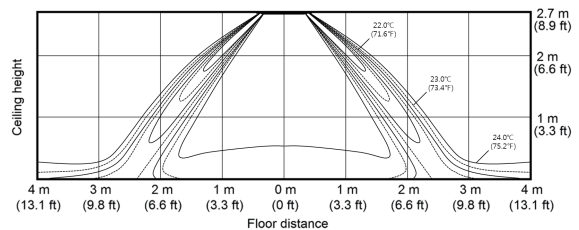
- Cooling Air Velocity distribution

(Discharge angle : 45 degree)



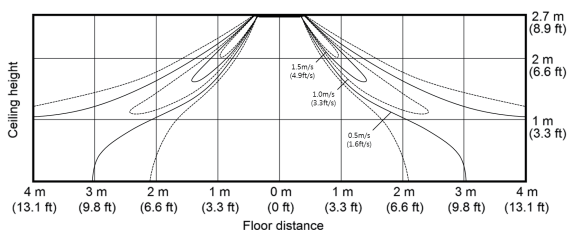
- Cooling temperature distribution

(Discharge angle : 45 degree)



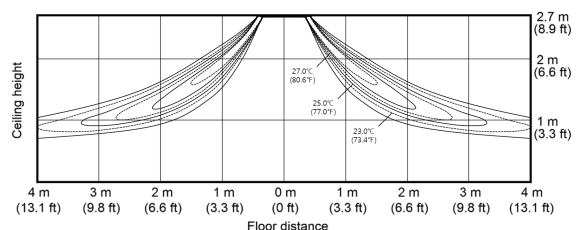
- Heating Air Velocity distribution

(Discharge angle : 52 degree)



- Heating temperature distribution

(Discharge angle : 52 degree)



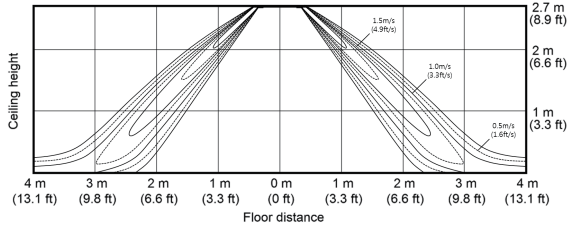
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC100RN4DKG/EU

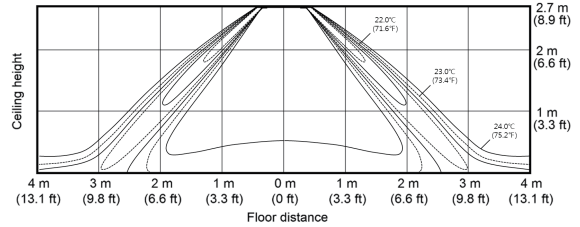
- Cooling Air Velocity distribution

(Discharge angle : 45 degree)



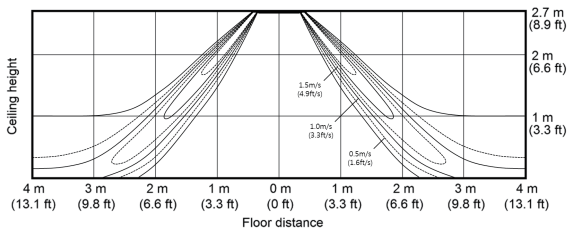
- Cooling temperature distribution

(Discharge angle : 45 degree)



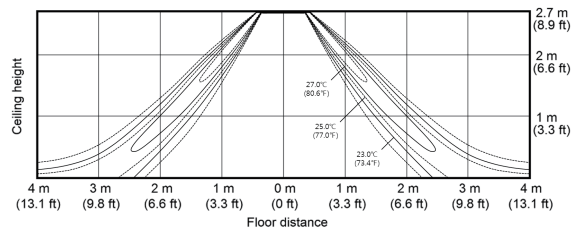
- Heating Air Velocity distribution

(Discharge angle : 52 degree)



- Heating temperature distribution

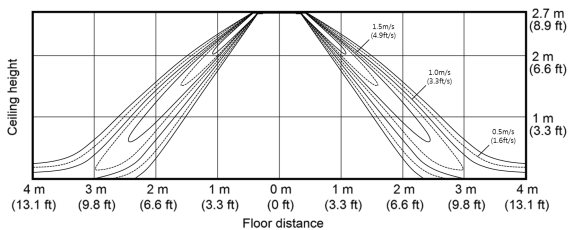
(Discharge angle : 52 degree)



### AC120RN4DKG/EU

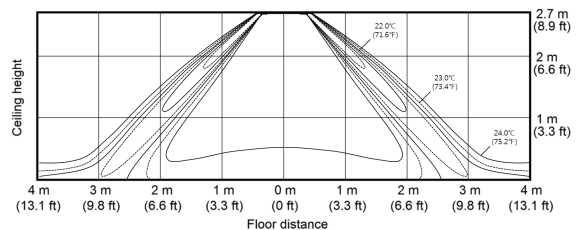
- Cooling Air Velocity distribution

(Discharge angle : 45 degree)



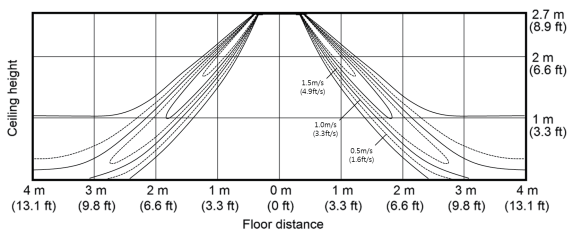
- Cooling temperature distribution

(Discharge angle : 45 degree)



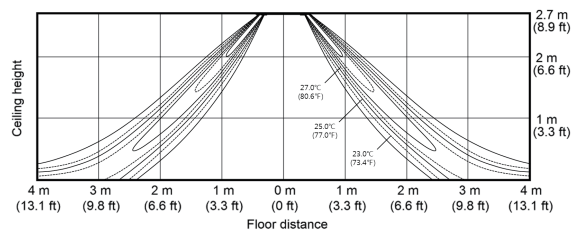
- Heating Air Velocity distribution

(Discharge angle : 52 degree)



- Heating temperature distribution

(Discharge angle : 52 degree)



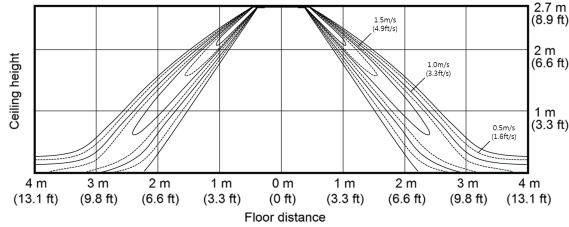
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC140RN4DKG/EU

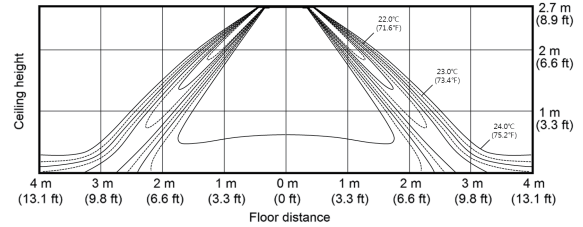
- Cooling Air Velocity distribution

(Discharge angle : 45 degree)



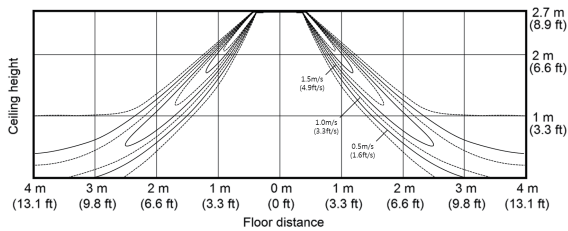
- Cooling temperature distribution

(Discharge angle : 45 degree)



- Heating Air Velocity distribution

(Discharge angle : 52 degree)



- Heating temperature distribution

(Discharge angle : 52 degree)

