

360 Cassette

1. Specification	87
2. Summary Table	96
3. Capacity Table	97
4. Dimensional Drawing	105
5. Center of Gravity	113
6. Electrical Wiring Diagram	114
7. Sound Data	115
8. Temperature and air flow distribution	118

Features & Benefits

360 Cassette

All round cooling and comfort

The Samsung 360 Cassette air conditioner offers a brand new way of staying comfortably cool in every corner of the room. Its innovative circular design not only means it perfectly fits in everywhere, adding a sophisticated look to many different sites, but it also blows cool air in all directions, so that the whole room is the same temperature*. And its bladeless outlet ensures that cool air is gently dispersed, without creating a cold draft**, and doesn't block the air flow, even at low angles, so it expels 25% more air* and spreads it farther.

EVENLY CIRCULATES & COOLS EVERY CORNER

Unlike 4-way, cassette type air conditioners that create areas of uneven airflow where cool air can't reach*, a circular outlet blows cool air in all directions, so every corner of a room is the same temperature**.

* Samsung testing compared to a general 4 way cassette type air conditioner.

** Within an 9.3m radius the temperature difference is less than 0.6°C.

Comfortably cool, not cold

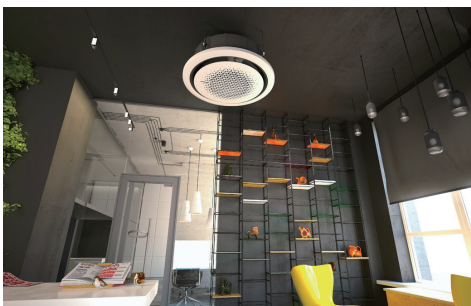
A bladeless design softly disperses cool air across the room, making you comfortably cool without feeling a cold draft**. With no blades to block the air flow, it also expels 25% more air* and spreads it farther.



* Within a 5m radius, no cold draft between 0-1.5m in height (with 14.0kw).

Circular to perfectly fit in everywhere

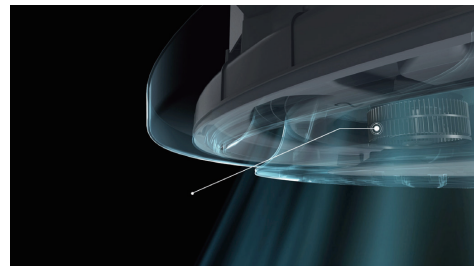
Its innovative circular design can match a multitude of interior designs, so it perfectly fits in everywhere. Its minimalist modern styling creates a sophisticated look and its circular shape stands out beautifully.



* Within an 9.3m radius the temperature difference is less than 0.6°C.

Spreads more air in more ways

An innovative Booster Fan enables cool air to be expelled at much lower angles. It creates a low pressure area around the outlet, so that cool air comes out parallel to the ceiling and disperses across a wider area.



All round simpler & intuitive control

Intuitively control its performance and see where the air is going. The Wireless Remote Controller's* Jog shuttle and button offer a fun way to adjust the air flow and a Circular LED Display shows its direction.



*Optional

1. Specification

360 Cassette

Model Name	Indoor Unit			AC071MN4PKH/EU	AC090MN4PKH/EU	AC100MN4PKH/EU
	Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC100MXADKH/EU
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling (Min/Std/Max)	kW	2.20 / 7.10 / 8.00	3.00 / 9.00 / 11.30	3.00 / 10.00 / 12.00
			Btu/h	7,500 / 24,200 / 27,300	10,200 / 30,700 / 38,600	10,200 / 34,100 / 40,900
		Heating (Min/Std/Max)	kW	1.90 / 8.00 / 9.00	2.20 / 10.00 / 13.90	2.20 / 11.20 / 15.50
			Btu/h	6,500 / 27,300 / 30,700	7,500 / 34,100 / 47,400	7,500 / 38,200 / 52,900
Power	Power Input	Cooling (Min/Std/Max)	kW	0.35 / 2.49 / 3.95	0.60 / 2.82 / 4.46	0.60 / 3.40 / 4.70
		Heating (Min/Std/Max)	kW	0.35 / 2.40 / 3.95	0.46 / 2.65 / 5.20	0.46 / 3.15 / 5.40
	Current Input	Cooling (Min/Std/Max)	A	2.00 / 11.10 / 17.00	3.00 / 12.70 / 19.40	3.00 / 15.10 / 20.40
		Heating (Min/Std/Max)	A	2.00 / 10.70 / 17.00	2.50 / 12.50 / 22.70	2.50 / 14.60 / 23.00
	Current	MCA	A	21.5	25.5	25.5
		MFA	A	25	30	30
Efficiency	EER	Cooling	W/W	2.85	3.19	2.94
	COP	Heating	W/W	3.33	3.77	3.56
	SEER (Cooling Energy Grade)		W/W	6.2 (A++)	6.8 (A++)	6.8 (A++)
	SCOP (Heating Energy Grade)		W/W	4.1 (A+)	4.3 (A+)	4.3 (A+)
	Pdesignh		kW	4.5	5.3	5.3
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection
		Φ, mm		6.35	9.52	9.52
		Φ, inch		1/4	3/8	3/8
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection
		Φ, mm		15.88	15.88	15.88
		Φ, inch		5/8	5/8	5/8
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	50	50	50
			Elevation	30	30	30
Chargeless			5	30	30	
Wiring connections	Power Source Wire		mm ²	-	-	-
	Transmission Cable		mm ²	Min. 0.75	Min. 0.75	Min. 0.75
	Remark		-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg / tCO ₂ e	1.5 / 3.13	3.0 / 6.26	3.0 / 6.26

1. Specification

360 Cassette

Indoor Unit	Model Name	Indoor Unit		AC071MN4PKH/EU	AC090MN4PKH/EU	AC100MN4PKH/EU	
		Outdoor Unit		AC071MXADKH/EU	AC090MXADKH/EU	AC100MXADKH/EU	
	Power Supply	Ø, #, V, Hz		1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	17.5 / 15.9 / 14.3	30.1 / 24.4 / 19.8	31.2 / 25.5 / 19.8
				l/s	291.7 / 265.0 / 238.3	501.7 / 406.7 / 330.0	520.0 / 425.0 / 330.0
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
	Pa			-	-	-	
	Fan Motor	Output		W x n	65 x 1	97 x 1	97 x 1
	Drain	Drain Pipe		Ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 33 / 29	43 / 38 / 33	44 / 39 / 33
		Sound Power Level		dB(A)	53	60	61
	External Dimension	Net Weight		kg	20.2	23.5	23.5
		Shipping Weight		kg	24.8	28.3	28.3
		Net Dimensions (WxHxD)		mm	947 x 281 x 947	947 x 365 x 947	947 x 365 x 947
		Shipping Dimensions (WxHxD)		mm	990 x 330 x 990	990 x 414 x 990	990 x 414 x 990
	Casing	Material		-	HIPS	HIPS	HIPS
	Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
		Type		-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN
		Type		-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS
Color		-	White	White	White		
Net Weight		kg	2.7	2.7	2.7		
Shipping Weight		kg	5.3	5.3	5.3		
Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050		
Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083		
Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN	
	Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)	
	Material		-	HIPS	HIPS	HIPS	
	Color		-	Black	Black	Black	
	Net Weight		kg	2.7	2.7	2.7	
	Shipping Weight		kg	5.3	5.3	5.3	
	Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050	
	Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083	

1. Specification

360 Cassette

Indoor Unit	Model Name		Indoor Unit	AC071MN4PKH/EU	AC090MN4PKH/EU	AC100MN4PKH/EU		
			Outdoor Unit	AC071MXADKH/EU	AC090MXADKH/EU	AC100MXADKH/EU		
	Control System	Infrared remote control		-	MR-KH00E	MR-KH00E	MR-KH00E	
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	
	Drain Pump		Drain Pump	-	Included	Included	Included	
			Max. lifting Height / Displacement		mm / Liter/h	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
Virus Doctor		-	Option	Option	Option			
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Heat Exchanger		Type	-	FMC	Fin & Tube	Fin & Tube	
			Material	Fin	-	Al	Al	Al
				Tube	-	Al	Cu	Cu
	Fin Treatment		-	Hybrid Coating	Green Hydrophile	Green Hydrophile		
	Compressor		Model Name		UG4T200FUA E4	UG8T300FUBJU	UG8T300FUBJU	
			Output		kW	1.79	2.82	2.82
			Oil	Type	-	POE	PVE	PVE
	Initial charge	cc		650	1200	1200		
	Fan		Type	-	Propeller	Propeller	Propeller	
			Discharge direction		-	Front	Front	Front
			Quantity		EA	1	1	1
			Air Flow Rate		CMM	51	78	78
	l/s	850			1300	1300		
	Fan Motor		Type	-	BLDC Motor	BLDC Motor	BLDC Motor	
			Output		W x n	125 x 1	125 x 1	125 x 1
	Sound		Sound Pressure Level	Cooling	dB(A)	49	52	52
				Heating	dB(A)	51	53	54
			Sound Power Level		dB(A)	65	68	69
	External Dimension		Net Weight		kg	53	72	72
Shipping Weight			kg	57.2	77	77		
Net Dimensions (WxHxD)			mm	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330		
Shipping Dimensions (WxHxD)			mm	1023 x 911 x 413	995 x 1096 x 426	995 x 1096 x 426		
Casing		Material	Body	-	EGL Steel Plate	EGL Steel Plate	EGL Steel Plate	
		Operating Temp. Range		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	
Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24			

NOTE

- Specification may be subject to change without prior notice. Specification comply with EN14511.
 - 1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
 - 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
 - 2) Sound power level is an absolute value that a sound source generates.
 - Sound power level is based on cooling operation.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - 3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

360 Cassette

Model Name	Indoor Unit			AC100MN4PKH/EU	AC120MN4PKH/EU	AC120MN4PKH/EU	
	Outdoor Unit			AC100MXADNH/EU	AC120MXADKH/EU	AC120MXADNH/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 10.00 / 12.00	3.50 / 12.00 / 13.50	3.50 / 12.00 / 13.50	
			Btu/h	10,200 / 34,100 / 40,900	11,900 / 40,900 / 46,100	11,900 / 40,900 / 46,100	
		Heating (Min/Std/Max)	kW	2.20 / 11.20 / 15.50	3.50 / 13.00 / 15.50	3.50 / 13.00 / 15.50	
			Btu/h	7,500 / 38,200 / 52,900	11,900 / 44,400 / 52,900	11,900 / 44,400 / 52,900	
Power	Power Input	Cooling (Min/Std/Max)	kW	0.60 / 3.40 / 4.70	0.90 / 4.70 / 5.30	0.90 / 4.70 / 7.90	
		Heating (Min/Std/Max)	kW	0.46 / 3.15 / 5.40	0.75 / 4.00 / 5.50	0.75 / 4.00 / 7.90	
	Current Input	Cooling (Min/Std/Max)	A	1.50 / 5.30 / 7.10	4.30 / 20.50 / 23.00	2.10 / 7.10 / 12.00	
		Heating (Min/Std/Max)	A	1.20 / 4.90 / 8.40	3.70 / 17.50 / 24.00	2.10 / 6.30 / 12.00	
	Current	MCA	A	17.6	25.5	17.6	
		MFA	A	17.6	30	17.6	
Efficiency	EER	Cooling	W/W	2.94	2.55	2.55	
	COP	Heating	W/W	3.56	3.25	3.25	
	SEER (Cooling Energy Grade)		W/W	6.8 (A++)	5.7 (A+)	5.7 (A+)	
	SCOP (Heating Energy Grade)		W/W	4.3 (A+)	4.1 (A+)	4.1 (A+)	
	Pdesignh		kW	5.3	7.4	7.4	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm		9.52	9.52	9.52	
		Φ, inch		3/8	3/8	3/8	
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm		15.88	15.88	15.88	
		Φ, inch		5/8	5/8	5/8	
	Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Standard	Max.	m	5	5	5
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
			m	30	30	30	
Wiring connections	Power Source Wire		mm ²	-	-	-	
	Transmission Cable		mm ²	Min. 0.75	Min. 0.75	Min. 0.75	
	Remark		-	F1, F2	F1, F2	F1, F2	
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit	
Refrigerant	Type		-	R410A	R410A	R410A	
	Factory Charging		kg / tCO ₂ e	3.0 / 6.26	3.0 / 6.26	3.0 / 6.26	

1. Specification

360 Cassette

Indoor Unit	Model Name		Indoor Unit		AC100MN4PKH/EU	AC120MN4PKH/EU	AC120MN4PKH/EU
			Outdoor Unit		AC100MXADNH/EU	AC120MXADKH/EU	AC120MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	31.2 / 25.5 / 19.8	32.5 / 25.5 / 19.8	32.5 / 25.5 / 19.8
				l/s	520.0 / 425.0 / 330.0	541.7 / 425.0 / 330.0	541.7 / 425.0 / 330.0
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
	Pa			-	-	-	
	Fan Motor	Output		W x n	97 x 1	97 x 1	97 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	44 / 39 / 33	45 / 40 / 35	45 / 40 / 35
		Sound Power Level		dB(A)	61	61	61
	External Dimension	Net Weight		kg	23.5	23.5	23.5
		Shipping Weight		kg	28.3	28.3	28.3
		Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
		Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990
	Casing	Material		-	HIPS	HIPS	HIPS
	Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
		Type		-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
	Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN
		Type		-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
	Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	2.7	2.7	2.7
		Shipping Weight		kg	5.3	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050
	Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
Net Weight		kg	2.7	2.7	2.7		
Shipping Weight		kg	5.3	5.3	5.3		
Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050		
Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083		

1. Specification

360 Cassette

Indoor Unit	Model Name	Indoor Unit		AC100MN4PKH/EU	AC120MN4PKH/EU	AC120MN4PKH/EU		
		Outdoor Unit		AC100MXADNH/EU	AC120MXADKH/EU	AC120MXADNH/EU		
	Control System	Infrared remote control		-	MR-KH00E	MR-KH00E		
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N		
	Drain Pump	Drain Pump		-	Included	Included	Included	
		Max. lifting Height / Displacement		mm / Liter/h	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			
Virus Doctor		-	Option	Option	Option			
Outdoor Unit	Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
		Material	Fin		-	Al	Al	Al
			Tube		-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
	Compressor	Model Name			UG8T300FUCJU	UG5TK1450FJX	UG5TK1450FJX	
		Output		kW	2.82	4.19	4.19	
		Oil	Type		-	PVE	PVE	PVE
	Initial charge		cc	1200	1700	1700		
	Fan	Type		-	Propeller	Propeller	Propeller	
		Discharge direction		-	Front	Front	Front	
		Quantity		EA	1	1	1	
		Air Flow Rate			CMM	78	78	78
			l/s	1300	1300	1300		
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	
		Output		W x n	125 x 1	125 x 1	125 x 1	
	Sound	Sound Pressure Level	Cooling	dB(A)	52	54	54	
			Heating	dB(A)	54	56	56	
		Sound Power Level		dB(A)	69	70	70	
External Dimension	Net Weight		kg	72	77	77		
	Shipping Weight		kg	77	82	82		
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330		
	Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426		
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate		
	Operating Temp. Range		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50		
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24		

NOTE

- Specification may be subject to change without prior notice. Specification comply with EN14511.
 - 1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
 - 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
 - 2) Sound power level is an absolute value that a sound source generates.
 - Sound power level is based on cooling operation.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - 3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

360 Cassette

Model Name	Indoor Unit			AC140MN4PKH/EU	AC140MN4PKH/EU	
	Outdoor Unit			AC140MXADKH/EU	AC140MXADNH/EU	
Mode				-	HEAT PUMP	
Performance	Capacity	Cooling (Min/Std/Max)	kW	3.50 / 13.40 / 15.50	3.50 / 13.40 / 15.50	
			Btu/h	11,900 / 45,700 / 52,900	11,900 / 45,700 / 52,900	
		Heating (Min/Std/Max)	kW	3.50 / 15.50 / 18.00	3.50 / 15.50 / 18.00	
			Btu/h	11,900 / 52,900 / 61,400	11,900 / 52,900 / 61,400	
Power	Power Input	Cooling (Min/Std/Max)	kW	0.80 / 4.45 / 6.44	0.80 / 4.45 / 7.90	
		Heating (Min/Std/Max)	kW	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.90	
	Current Input	Cooling (Min/Std/Max)	A	3.70 / 20.00 / 28.00	2.10 / 7.00 / 12.00	
		Heating (Min/Std/Max)	A	3.50 / 19.50 / 32.00	1.90 / 7.00 / 12.00	
	Current	MCA	A	33.5	17.6	
		MFA	A	40	17.6	
Efficiency	EER	Cooling	W/W	3.01	3.01	
	COP	Heating	W/W	3.41	3.41	
	SEER (Cooling Energy Grade)		W/W	3.0	3.0	
	SCOP (Heating Energy Grade)		W/W	3.4	3.4	
	Pdesignh		kW	-	-	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	
		Φ, mm		9.52	9.52	
		Φ, inch		3/8	3/8	
	Gas Pipe	Type		Flare connection	Flare connection	
		Φ, mm		15.88	15.88	
		Φ, inch		5/8	5/8	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m		5	5
			m		75	75
			m		30	30
m			30	30		
Wiring connections	Power Source Wire		mm ²	-	-	
	Transmission Cable		mm ²	Min. 0.75	Min. 0.75	
	Remark		-	F1, F2	F1, F2	
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	
Refrigerant	Type		-	R410A	R410A	
	Factory Charging		kg / tCO ₂ e	3.4 / 7.10	3.4 / 7.10	

1. Specification

360 Cassette

Model Name	Indoor Unit			AC140MN4PKH/EU	AC140MN4PKH/EU
	Outdoor Unit			AC140MXADKH/EU	AC140MXADNH/EU
Power Supply	Ø, #, V, Hz			1, 2, 220-240, 50	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
Fan	Type		-	Turbo Fan	Turbo Fan
	Quantity		EA	1	1
	Air Flow Rate	High/Mid/Low	CMM	32.4 / 27.1 / 22.8	32.4 / 27.1 / 22.8
			l/s	540.0 / 451.7 / 380.0	540.0 / 451.7 / 380.0
	External Static Pressure	Min/Std/Max	mmAq	-	-
Pa			-	-	
Fan Motor	Output		W x n	97 x 1	97 x 1
Drain	Drain Pipe		Ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	45 / 41 / 37	45 / 41 / 37
	Sound Power Level		dB(A)	61	61
External Dimension	Net Weight		kg	25.5	25.5
	Shipping Weight		kg	30.3	30.3
	Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947
	Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990
Casing	Material		-	HIPS	HIPS
Indoor Unit Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN
	Type		-	Ceiling Type(Square)	Ceiling Type(Square)
	Material		-	HIPS	HIPS
	Color		-	White	White
	Net Weight		kg	3.6	3.6
	Shipping Weight		kg	6.3	6.3
	Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000
	Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083
Indoor Unit Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN
	Type		-	Ceiling Type(Square)	Ceiling Type(Square)
	Material		-	HIPS	HIPS
	Color		-	Black	Black
	Net Weight		kg	3.6	3.6
	Shipping Weight		kg	6.3	6.3
	Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000
	Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083
Indoor Unit Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN
	Type		-	Open Type(Circle)	Open Type(Circle)
	Material		-	HIPS	HIPS
	Color		-	White	White
	Net Weight		kg	2.7	2.7
	Shipping Weight		kg	5.3	5.3
	Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050
	Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083
Indoor Unit Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN
	Type		-	Open Type(Circle)	Open Type(Circle)
	Material		-	HIPS	HIPS
	Color		-	Black	Black
	Net Weight		kg	2.7	2.7
	Shipping Weight		kg	5.3	5.3
	Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050
	Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083

1. Specification

360 Cassette

	Model Name	Indoor Unit		AC140MN4PKH/EU	AC140MN4PKH/EU		
		Outdoor Unit		AC140MXADKH/EU	AC140MXADNH/EU		
Indoor Unit	Control System	Infrared remote control		-	MR-KH00E		
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N		
	Drain Pump	Drain Pump		-	Included	Included	
		Max. lifting Height / Displacement		mm / Liter/h	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	
		Virus Doctor		-	Option	Option	
	Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	
Heat Exchanger		Type		-	Fin & Tube	Fin & Tube	
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	
Compressor		Model Name			UG5TK1450FJX	UG5TK1450FJX	
		Output		kW	4.19	4.19	
		Oil	Type		-	PVE	PVE
Initial charge			cc	1700	1700		
Fan		Type		-	Propeller	Propeller	
		Discharge direction		-	Front	Front	
		Quantity		EA	2	2	
		Air Flow Rate			CMM	111	111
			l/s	1850	1850		
Fan Motor		Type		-	BLDC Motor	BLDC Motor	
		Output		W x n	125 x 2	125 x 2	
Sound		Sound Pressure Level	Cooling	dB(A)	53	53	
			Heating	dB(A)	54	54	
		Sound Power Level		dB(A)	69	69	
External Dimension		Net Weight		kg	87	87	
	Shipping Weight		kg	97	97		
	Net Dimensions (WxHxD)		mm	940 x 1210 x 330	940 x 1210 x 330		
	Shipping Dimensions (WxHxD)		mm	995 x 1388 x 426	995 x 1388 x 426		
Casing	Material	Body	-	EGL Steel Plate	EGL Steel Plate		
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50		
	Heating		°C	-20 ~ 24	-20 ~ 24		

NOTE

- Specification may be subject to change without prior notice. Specification comply with EN14511.
 - 1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
 - 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
 - 2) Sound power level is an absolute value that a sound source generates.
 - Sound power level is based on cooling operation.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - 3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

360 Cassette

Performance Characteristics

Model Code	Net Weight (kg)	Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)	
		Cooling (kW)	Heating (kW)					
AC071MN4PKH/EU	20.2	Max.	8.0	9.0	High	19.5 / 19.5	36	53
		Std.	7.1	8.0	Mid	16.5 / 16.5	33	-
		Min.	2.2	1.9	Low	14.5 / 14.5	29	-
AC090MN4PKH/EU	23.5	Max.	11.3	13.9	High	30.0 / 30.0	43	60
		Std.	9.0	10.0	Mid	24.0 / 24.0	38	-
		Min.	3.0	2.2	Low	18.0 / 18.0	33	-
AC100MN4PKH/EU	23.5	Max.	12.0	15.5	High	31.0 / 31.0	44	61
		Std.	10.0	11.2	Mid	25.0 / 25.0	39	-
		Min.	3.0	2.2	Low	19.0 / 19.0	33	-
AC120MN4PKH/EU	23.5	Max.	13.5	15.5	High	32.0 / 32.0	45	61
		Std.	12.0	13.0	Mid	26.0 / 26.0	40	-
		Min.	3.5	3.5	Low	22.0 / 22.0	35	-
AC140MN4PKH/EU	23.5	Max.	15.5	18.0	High	34.0 / 34.0	45	61
		Std.	13.4	15.5	Mid	27.0 / 27.0	41	-
		Min.	3.5	3.5	Low	23.0 / 23.0	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
AC071MN4PKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	1.5	21.5	21.5	25
AC090MN4PKH/EU	AC090MXADKH/EU	50	220 to 240	198	264	24	24	1.5	25.5	25.5	30
AC100MN4PKH/EU	AC100MXADKH/EU	50	220 to 240	198	264	24	24	1.5	25.5	25.5	30
AC100MN4PKH/EU	AC100MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC120MN4PKH/EU	AC120MXADKH/EU	50	220 to 240	198	264	24	24	1.5	25.5	25.5	30
AC120MN4PKH/EU	AC120MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC140MN4PKH/EU	AC140MXADKH/EU	50	220 to 240	198	264	32	32	1.5	33.5	33.5	40
AC140MN4PKH/EU	AC140MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6

NOTE

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

3. Capacity Table

360 Cassette

(1) AC071MN4PKH/EU + AC071MXADKH/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	6.92	5.14	1.78	7.29	5.30	1.82	7.59	5.47	1.85	7.83	5.64	1.89	7.98	5.58	1.91	8.38	5.52	1.93	8.80	5.41	1.97
21	6.59	4.90	1.87	6.94	5.05	1.91	7.23	5.21	1.95	7.46	5.37	1.99	7.60	5.31	2.01	7.98	5.26	2.03	8.38	5.16	2.07
35	6.28	4.67	2.34	6.61	4.81	2.39	6.89	4.96	2.44	7.10	5.11	2.49	7.24	5.06	2.51	7.60	5.01	2.54	7.98	4.91	2.59
46	5.34	4.41	2.11	5.62	4.55	2.15	5.85	4.69	2.20	6.04	4.83	2.24	6.16	4.78	2.26	6.46	4.74	2.29	6.79	4.64	2.33
50	4.08	3.50	1.87	4.30	3.60	1.91	4.48	3.72	1.95	4.62	3.83	1.99	4.71	3.79	2.01	4.94	3.75	2.03	5.19	3.68	2.07

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	5.63	3.18	5.58	3.15	5.52	3.12	5.46	3.09	5.41	3.06	5.36	3.03
-15	7.10	3.67	7.03	3.64	6.96	3.60	6.89	3.56	6.82	3.53	6.75	3.49
-5	8.00	3.43	7.92	3.39	7.84	3.36	7.76	3.33	7.68	3.29	7.61	3.26
0	8.32	2.94	8.24	2.91	8.16	2.88	8.08	2.85	8.00	2.82	7.92	2.79
7	8.16	2.45	8.08	2.42	8.00	2.40	7.92	2.38	7.84	2.35	7.76	2.33
24	10.61	2.82	10.50	2.79	10.40	2.76	10.30	2.73	10.19	2.71	10.09	2.68

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(2) AC090MN4PKH/EU + AC090MXADKH/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	8.78	7.70	2.02	9.24	7.94	2.06	9.62	8.18	2.10	9.92	8.43	2.14	10.12	8.35	2.16	10.63	8.27	2.19	11.16	8.10	2.23
21	8.36	7.33	2.12	8.80	7.56	2.17	9.17	7.79	2.21	9.45	8.03	2.26	9.64	7.95	2.28	10.12	7.87	2.30	10.63	7.72	2.35
35	7.96	6.98	2.65	8.38	7.20	2.71	8.73	7.42	2.76	9.00	7.65	2.82	9.18	7.57	2.85	9.64	7.50	2.88	10.12	7.35	2.93
46	6.77	6.40	2.39	7.12	6.59	2.44	7.42	6.80	2.49	7.65	7.01	2.54	7.80	6.94	2.56	8.19	6.87	2.59	8.60	6.73	2.64
50	5.18	5.02	2.12	5.45	5.17	2.17	5.67	5.33	2.21	5.85	5.50	2.26	5.97	5.44	2.28	6.27	5.39	2.30	6.58	5.28	2.35

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	7.04	3.51	6.97	3.48	6.90	3.45	6.83	3.41	6.76	3.38	6.70	3.34
-15	8.87	4.05	8.79	4.01	8.70	3.98	8.61	3.94	8.53	3.90	8.44	3.86
-5	10.00	3.78	9.90	3.75	9.80	3.71	9.70	3.67	9.60	3.64	9.51	3.60
0	10.41	3.24	10.30	3.21	10.20	3.18	10.10	3.15	10.00	3.12	9.90	3.09
7	10.20	2.70	10.10	2.68	10.00	2.65	9.90	2.62	9.80	2.60	9.70	2.57
24	13.26	3.11	13.13	3.08	13.00	3.05	12.87	3.02	12.74	2.99	12.61	2.96

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(3) AC100MN4PKH/EU + AC100MXADKH/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	9.75	8.15	2.43	10.27	8.40	2.48	10.69	8.66	2.53	11.03	8.93	2.58	11.25	8.84	2.61	11.81	8.75	2.64	12.40	8.58	2.69
21	9.29	7.76	2.56	9.78	8.00	2.61	10.19	8.25	2.67	10.50	8.51	2.72	10.71	8.42	2.75	11.25	8.34	2.77	11.81	8.17	2.83
35	8.85	7.39	3.20	9.31	7.62	3.27	9.70	7.86	3.33	10.00	8.10	3.40	10.20	8.02	3.43	10.71	7.94	3.47	11.25	7.78	3.54
46	7.52	7.14	2.88	7.92	7.36	2.94	8.25	7.59	3.00	8.50	7.82	3.06	8.67	7.74	3.09	9.10	7.66	3.12	9.56	7.51	3.18
50	5.75	5.70	2.56	6.05	5.87	2.61	6.31	6.05	2.67	6.50	6.24	2.72	6.63	6.18	2.75	6.96	6.12	2.77	7.31	5.99	2.83

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	7.88	4.18	7.81	4.14	7.73	4.10	7.65	4.05	7.57	4.01	7.50	3.97
-15	9.94	4.82	9.84	4.77	9.74	4.73	9.65	4.68	9.55	4.63	9.45	4.58
-5	11.20	4.50	11.09	4.45	10.98	4.41	10.87	4.37	10.76	4.32	10.65	4.28
0	11.65	3.86	11.54	3.82	11.42	3.78	11.31	3.74	11.20	3.70	11.08	3.67
7	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24	14.85	3.70	14.71	3.66	14.56	3.62	14.41	3.59	14.27	3.55	14.13	3.51

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(4) AC100MN4PKH/EU + AC100MXADNH/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	9.75	8.15	2.43	10.27	8.40	2.48	10.69	8.66	2.53	11.03	8.93	2.58	11.25	8.84	2.61	11.81	8.75	2.64	12.40	8.58	2.69
21	9.29	7.76	2.56	9.78	8.00	2.61	10.19	8.25	2.67	10.50	8.51	2.72	10.71	8.42	2.75	11.25	8.34	2.77	11.81	8.17	2.83
35	8.85	7.39	3.20	9.31	7.62	3.27	9.70	7.86	3.33	10.00	8.10	3.40	10.20	8.02	3.43	10.71	7.94	3.47	11.25	7.78	3.54
46	7.52	7.14	2.88	7.92	7.36	2.94	8.25	7.59	3.00	8.50	7.82	3.06	8.67	7.74	3.09	9.10	7.66	3.12	9.56	7.51	3.18
50	5.75	5.70	2.56	6.05	5.87	2.61	6.31	6.05	2.67	6.50	6.24	2.72	6.63	6.18	2.75	6.96	6.12	2.77	7.31	5.99	2.83

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	7.88	4.18	7.81	4.14	7.73	4.10	7.65	4.05	7.57	4.01	7.50	3.97
-15	9.94	4.82	9.84	4.77	9.74	4.73	9.65	4.68	9.55	4.63	9.45	4.58
-5	11.20	4.50	11.09	4.45	10.98	4.41	10.87	4.37	10.76	4.32	10.65	4.28
0	11.65	3.86	11.54	3.82	11.42	3.78	11.31	3.74	11.20	3.70	11.08	3.67
7	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24	14.85	3.70	14.71	3.66	14.56	3.62	14.41	3.59	14.27	3.55	14.13	3.51

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(5) AC120MN4PKH/EU + AC120MXADKH/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	11.70	8.94	3.36	12.32	9.21	3.43	12.83	9.50	3.50	13.23	9.79	3.57	13.49	9.69	3.61	14.17	9.60	3.64	14.88	9.40	3.72
21	11.15	8.51	3.54	11.73	8.77	3.61	12.22	9.04	3.68	12.60	9.32	3.76	12.85	9.23	3.80	13.49	9.14	3.84	14.17	8.96	3.91
35	10.62	8.10	4.42	11.17	8.36	4.51	11.64	8.61	4.61	12.00	8.88	4.70	12.24	8.79	4.75	12.85	8.70	4.79	13.49	8.53	4.89
46	9.02	8.12	3.98	9.50	8.37	4.06	9.89	8.63	4.15	10.20	8.89	4.23	10.40	8.81	4.27	10.92	8.72	4.31	11.47	8.54	4.40
50	6.90	6.55	3.54	7.26	6.75	3.61	7.57	6.96	3.68	7.80	7.18	3.76	7.96	7.10	3.80	8.35	7.03	3.84	8.77	6.89	3.91

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	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(6) AC120MN4PKH/EU + AC120MXADNH/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	11.70	8.81	3.36	12.32	9.09	3.43	12.83	9.37	3.50	13.23	9.66	3.57	13.49	9.56	3.61	14.17	9.47	3.64	14.88	9.28	3.72
21	11.15	8.39	3.54	11.73	8.65	3.61	12.22	8.92	3.68	12.60	9.20	3.76	12.85	9.11	3.80	13.49	9.01	3.84	14.17	8.83	3.91
35	10.62	8.00	4.42	11.17	8.24	4.51	11.64	8.50	4.61	12.00	8.76	4.70	12.24	8.67	4.75	12.85	8.59	4.79	13.49	8.41	4.89
46	9.02	7.82	3.98	9.50	8.06	4.06	9.89	8.31	4.15	10.20	8.57	4.23	10.40	8.48	4.27	10.92	8.40	4.31	11.47	8.23	4.40
50	6.90	6.26	3.54	7.26	6.46	3.61	7.57	6.66	3.68	7.80	6.86	3.76	7.96	6.80	3.80	8.35	6.73	3.84	8.77	6.59	3.91

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	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(7) AC140MN4PKH/EU + AC140MXADKH/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	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	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	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(8) AC140MN4PKH/EU + AC140MXADNH/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	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	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	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

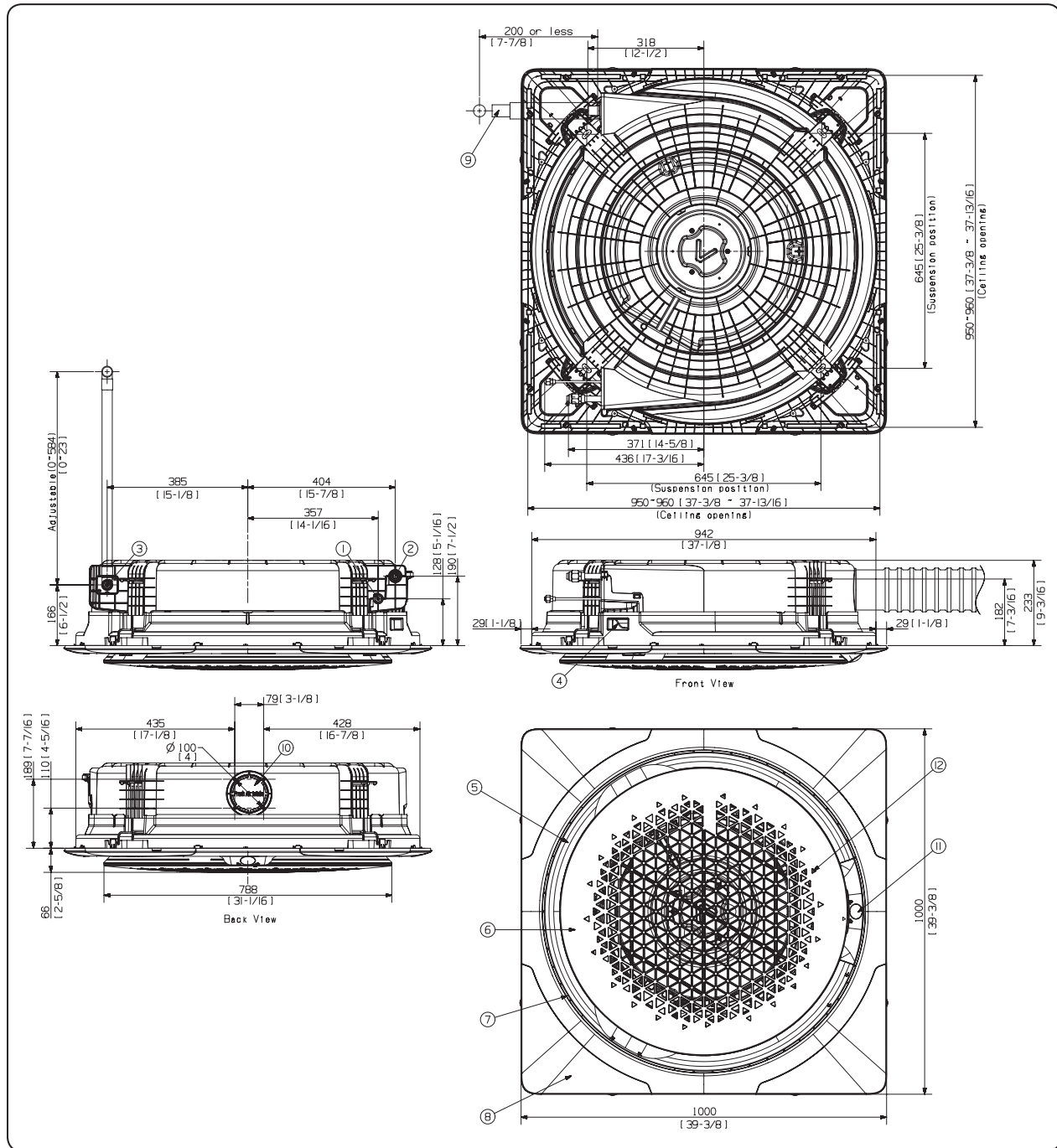
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

360 Cassette (Square)

AC071MN4PKH/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)

4. Dimensional Drawing

360 Cassette (Circle)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

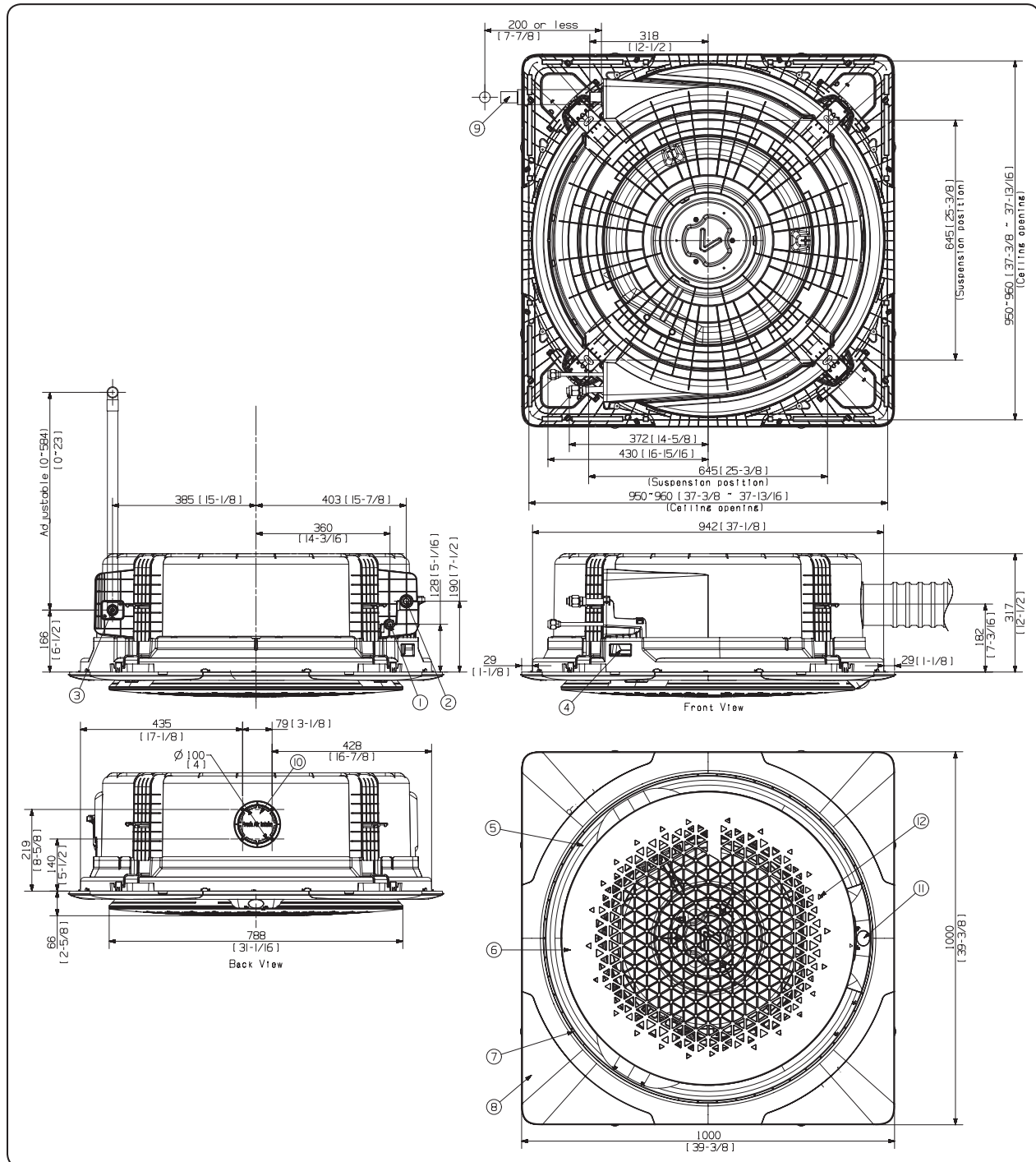
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)
- The circular panel is by default available in exposed installation.
Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
(The size of an inspection hole must be at least 450 mm x 450 mm.)
- A suspended ceiling structure can substitute for the inspection holes.

4. Dimensional Drawing

360 Cassette (Square)

AC090/100/120/140MN4PKH/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

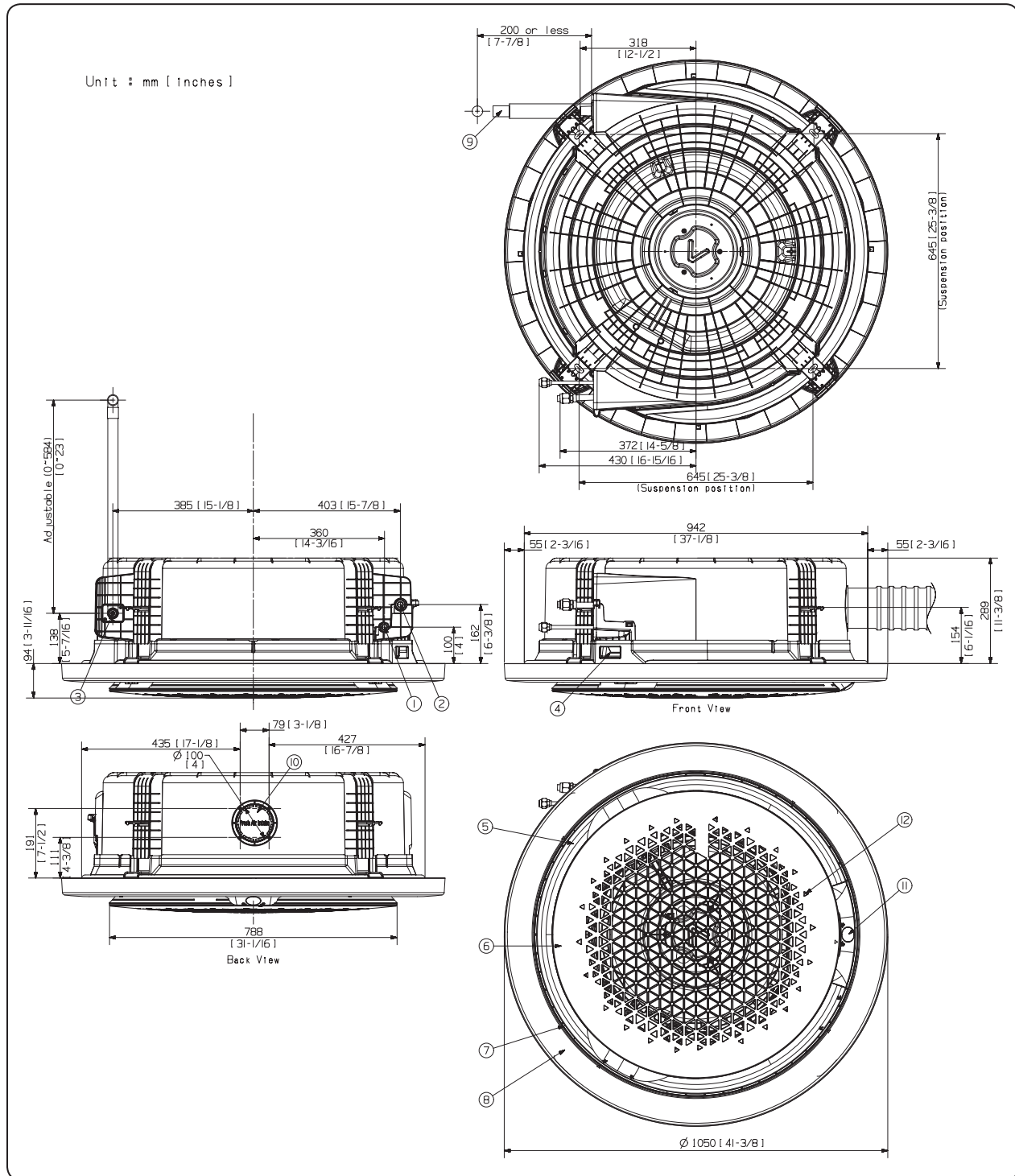
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)

4. Dimensional Drawing

360 Cassette (Circle)

AC090/100/120/140MN4PKH/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Circle)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

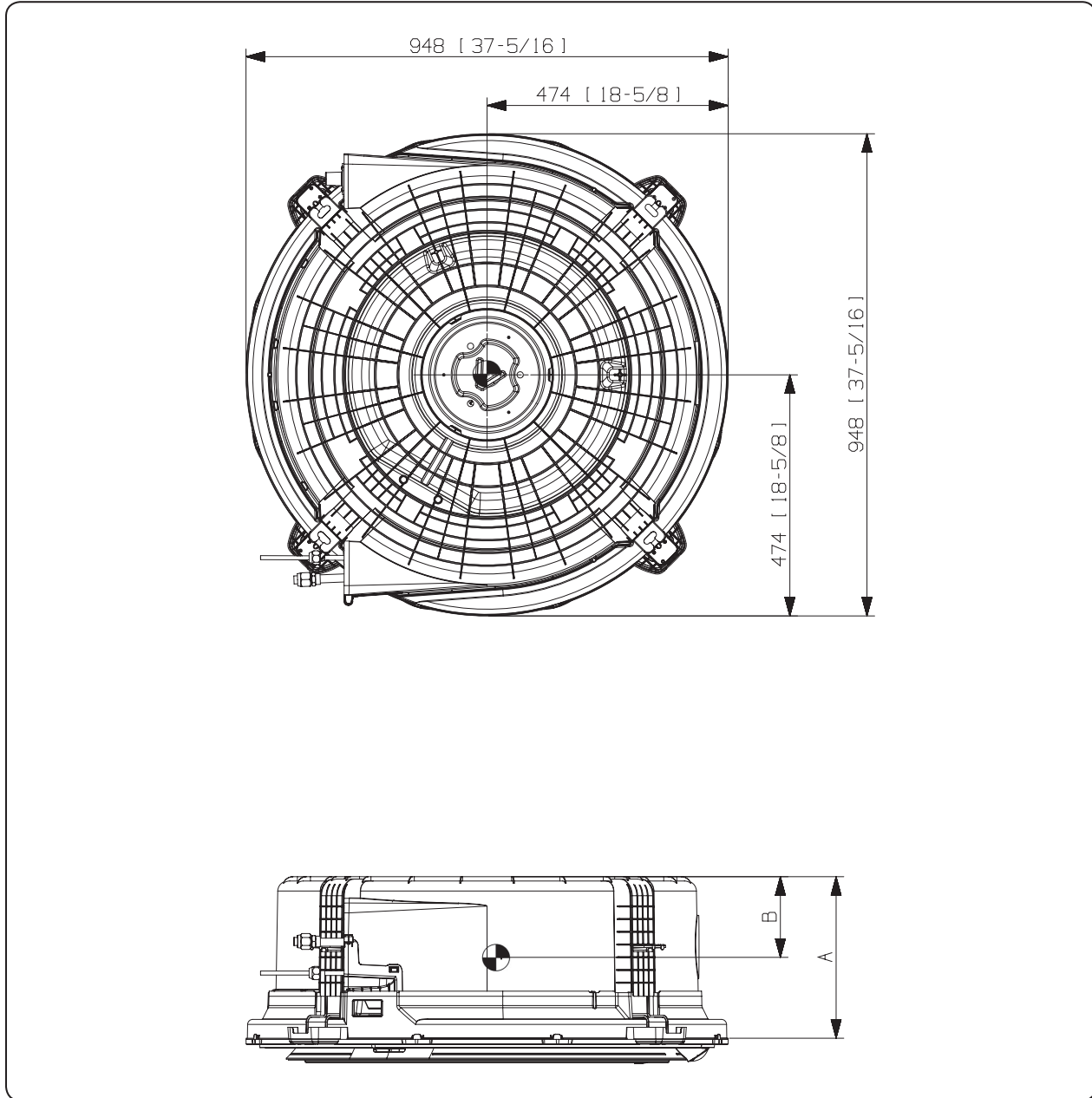
NOTE

- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)
- The circular panel is by default available in exposed installation.
Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
(The size of an inspection hole must be at least 450 mm x 450 mm.)
- A suspended ceiling structure can substitute for the inspection holes.

5. Center of Gravity

360 Cassette

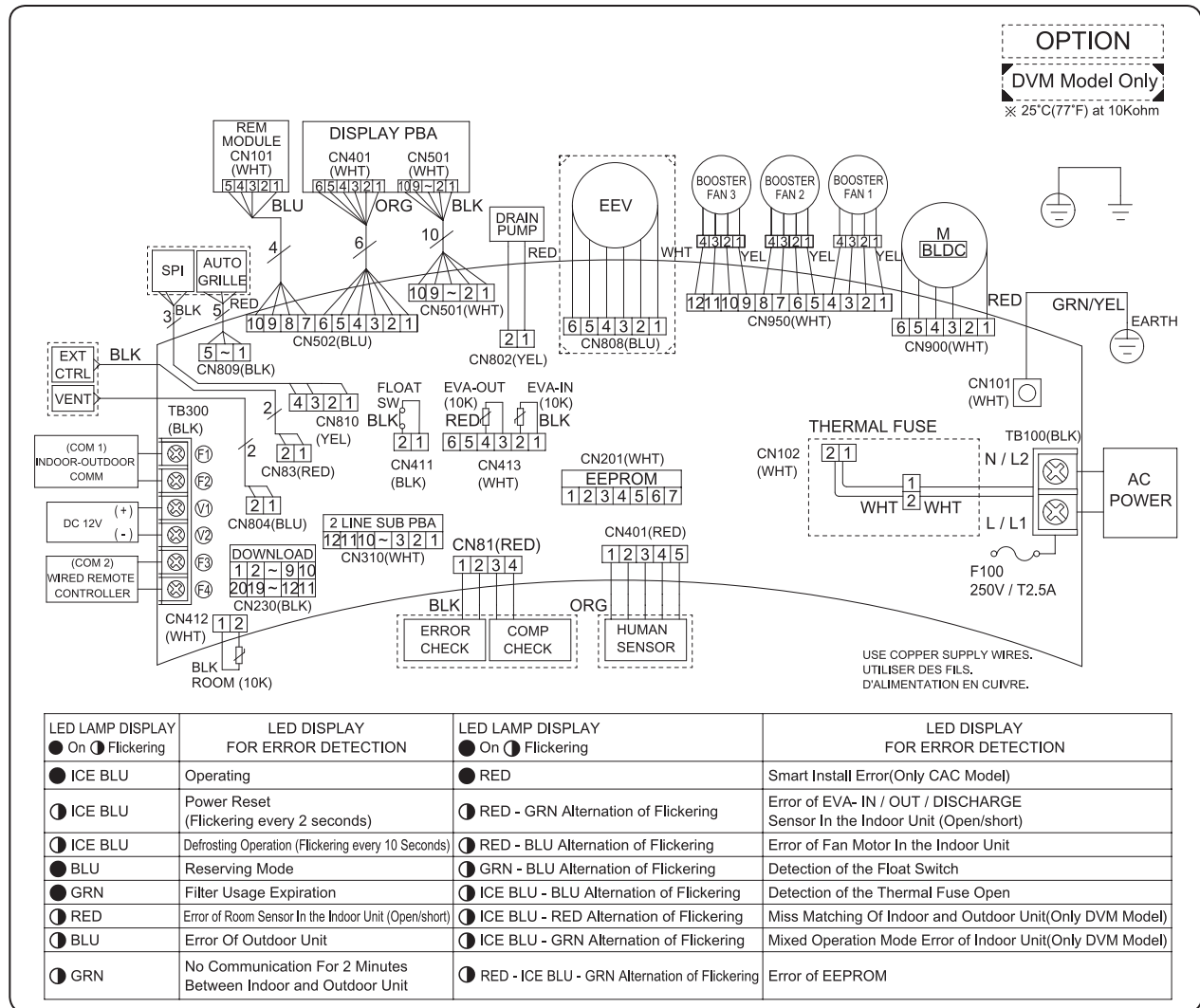
Units : mm [inches]



	A	B
7.1kW	233 [9-3/16]	165 [6-1/2]
9.0kW~	317 [12-1/2]	220 [8-5/8]

6. Electrical Wiring Diagram

360 Cassette



2-LINE SUB PBA	Printed Circuit Board(2-LINE SUB)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
		EXT CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)
		VENT	Ventilator		

NOTE

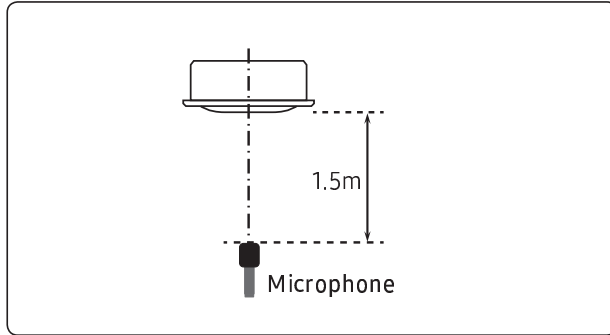
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw),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

7. Sound Data

360 Cassette

Sound Pressure level

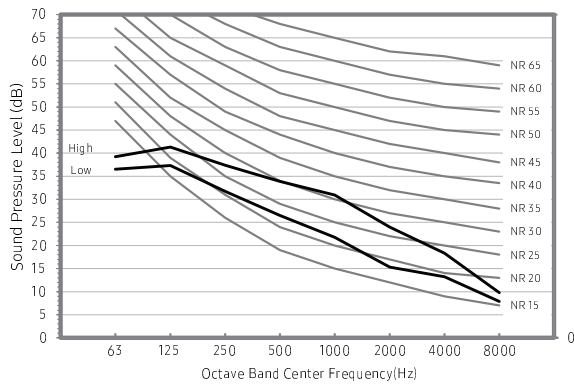
Unit: dB(A)



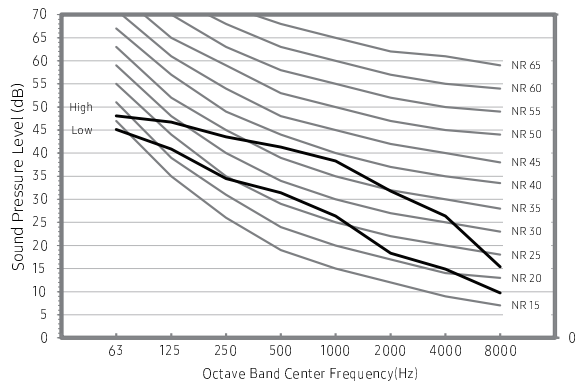
Model	Hi	MID	LOW
AC071MN4PKH/EU	36	33	29
AC090MN4PKH/EU	43	38	33
AC100MN4PKH/EU	44	39	33
AC120MN4PKH/EU	45	40	35

- NR Curve

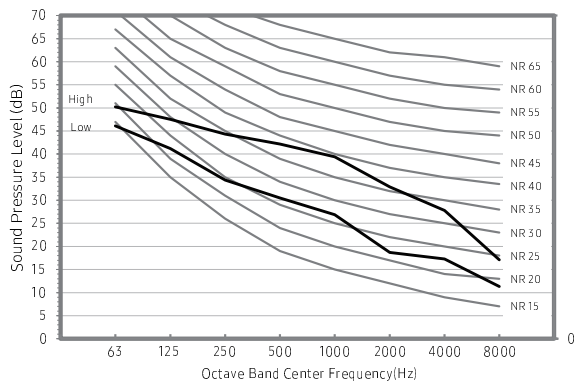
1) AC071MN4PKH/EU



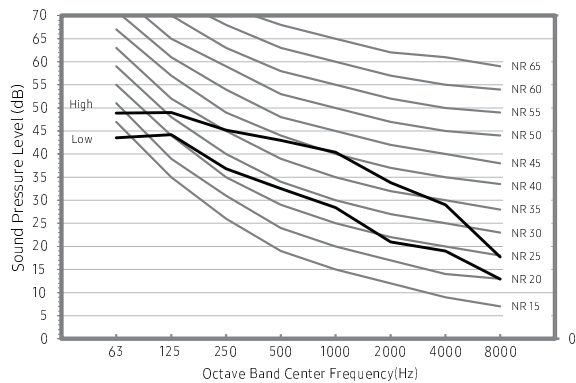
2) AC090MN4PKH/EU



3) AC100MN4PKH/EU



4) AC120MN4PKH/EU



NOTE

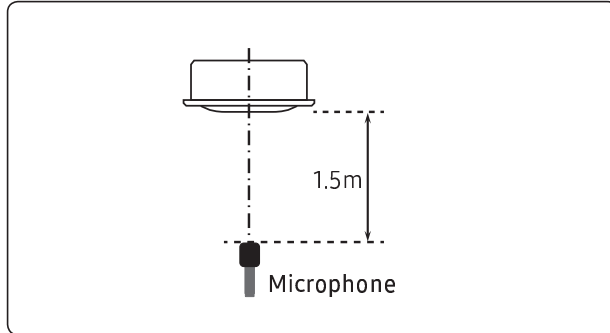
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted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

7. Sound Data

360 Cassette

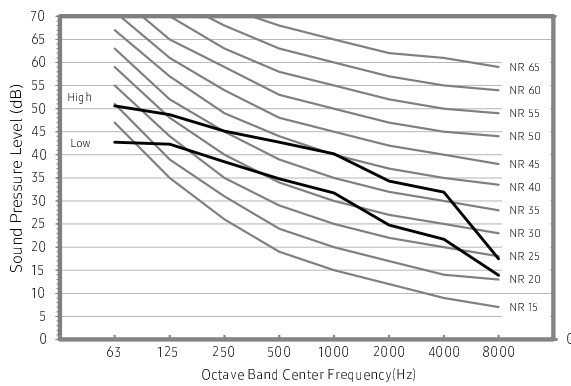
Sound Pressure level

Unit: dB(A)



Model	Hi	MID	LOW
AC140MN4PKH/EU	45	41	37

- NR Curve
- 5) AC140MN4PKH/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

360 Cassette

Sound Power level



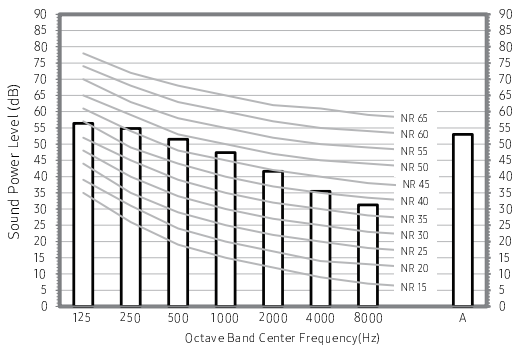
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

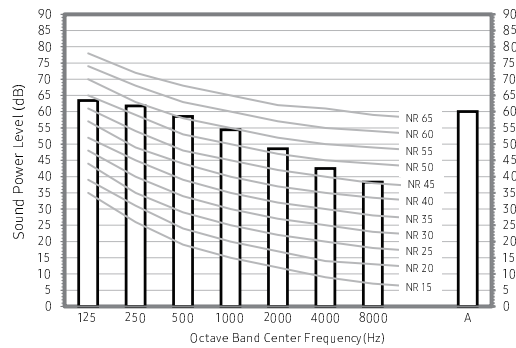
Model	Power
AC071MN4PKH/EU	53
AC090MN4PKH/EU	60
AC100MN4PKH/EU	61
AC120MN4PKH/EU	61
AC140MN4PKH/EU	61

- NR Curve

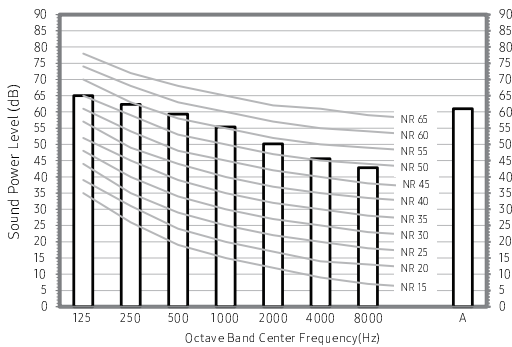
1) AC071MN4PKH/EU



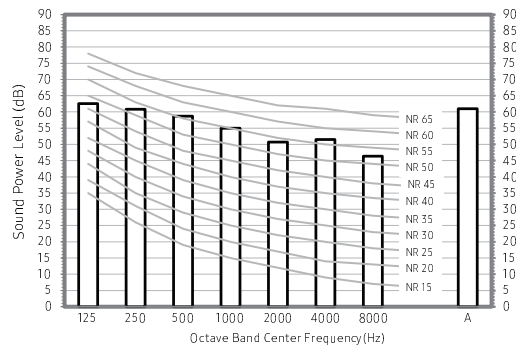
2) AC090MN4PKH/EU



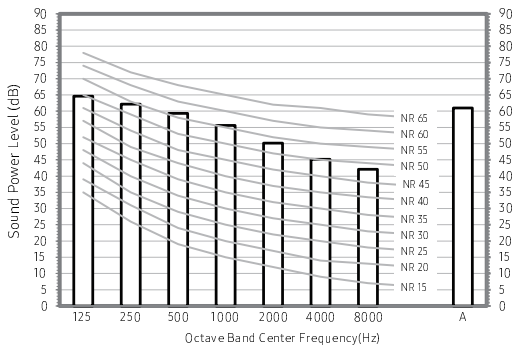
3) AC100MN4PKH/EU



4) AC120MN4PKH/EU



5) AC140MN4PKH/EU



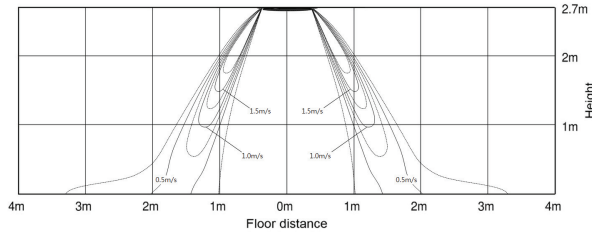
8. Temperature and air flow distribution

360 Cassette

AC071MN4PKH/EU

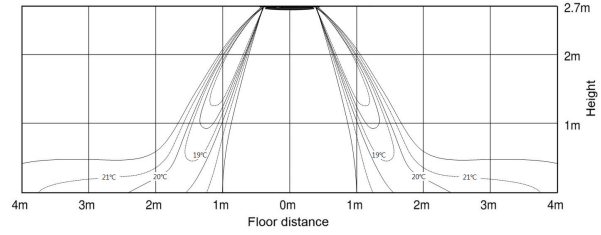
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



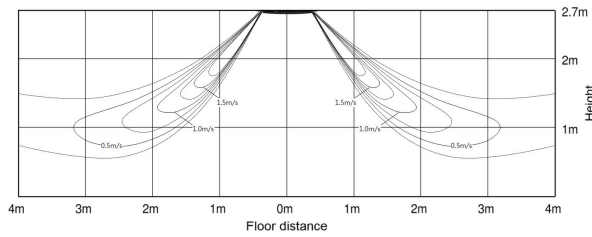
- Cooling temperature distribution

(Discharge angle : 60 degree)



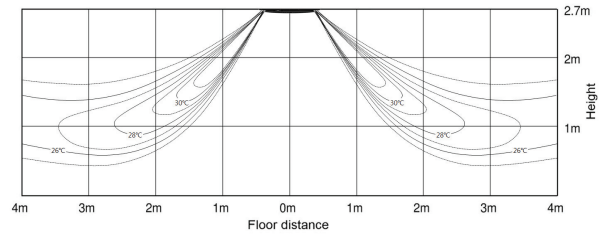
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



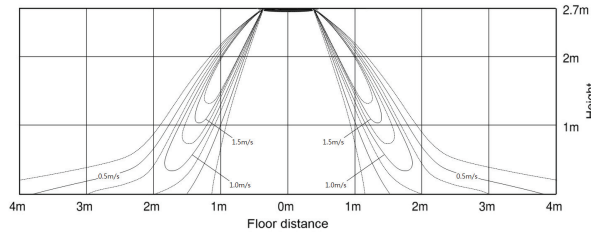
8. Temperature and air flow distribution

360 Cassette

AC090MN4PKH/EU

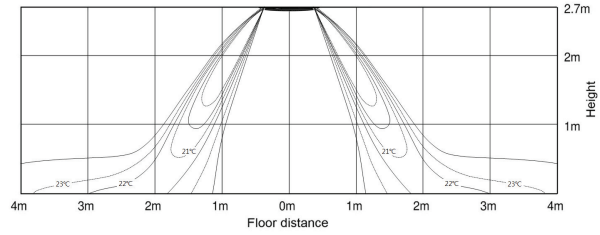
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



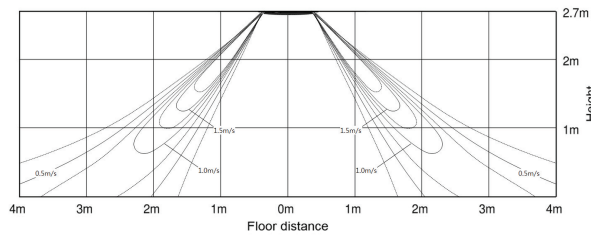
- Cooling temperature distribution

(Discharge angle : 60 degree)



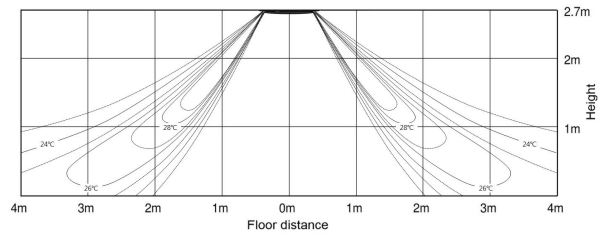
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



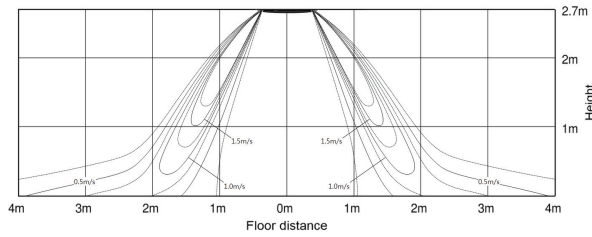
8. Temperature and air flow distribution

360 Cassette

AC100MN4PKH/EU

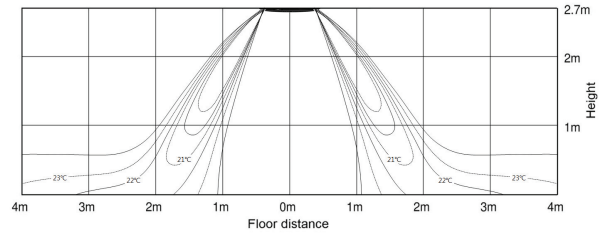
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



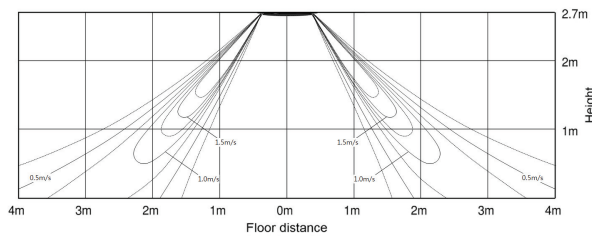
- Cooling temperature distribution

(Discharge angle : 60 degree)



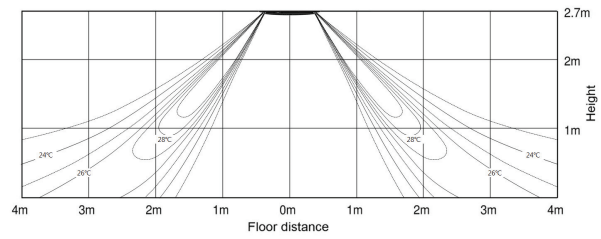
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)

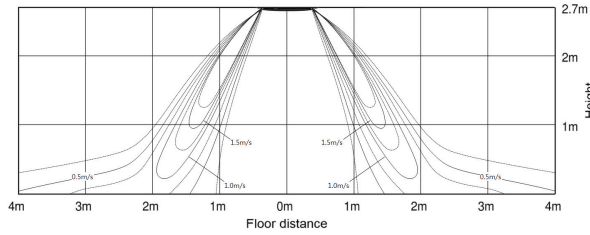


8. Temperature and air flow distribution

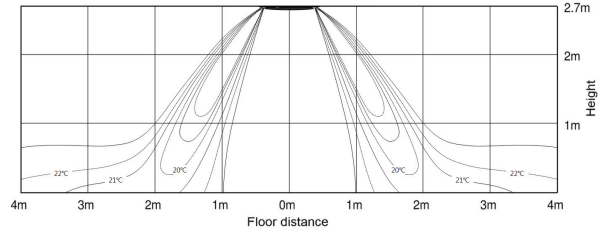
360 Cassette

AC120MN4PKH/EU

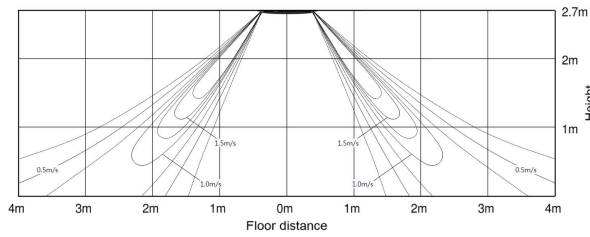
- Cooling Air Velocity distribution
(Discharge angle : 60 degree)



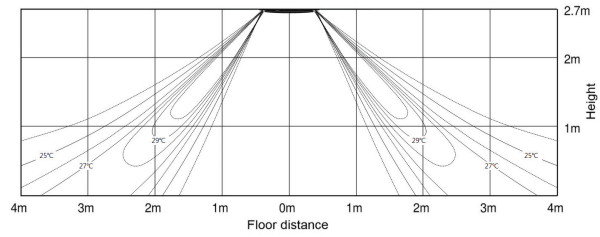
- Cooling temperature distribution
(Discharge angle : 60 degree)



- Heating Air Velocity distribution
(Discharge angle : 60 degree)



- Heating temperature distribution
(Discharge angle : 60 degree)



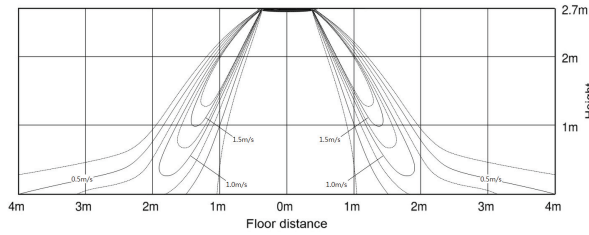
8. Temperature and air flow distribution

360 Cassette

AC140MN4PKH/EU

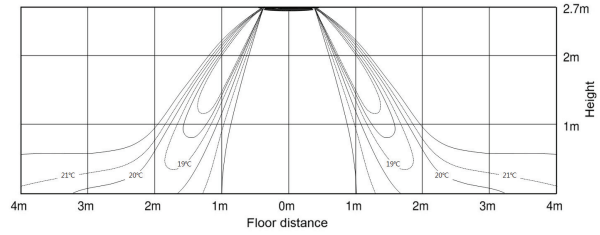
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



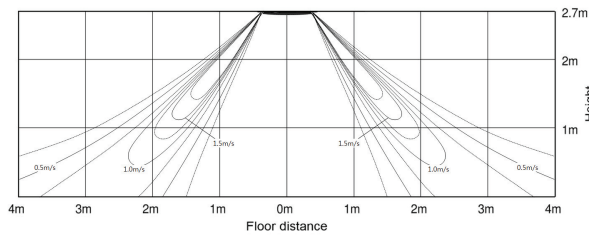
- Cooling temperature distribution

(Discharge angle : 60 degree)



- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)

