1Way Cassette

Features & Benefits

1Way Cassette

Slim 1Way Cassette
Discreet style and performance

Enhance any environment with the best of air conditioning performance and sleek style

Samsung Slim 1Way Cassette is an optimized air solution that suits both practical and aesthetic needs with its simple design and efficient cooling operation. The slim, rounded design of the Slim 1Way Cassette unit creates a near-seamless ceiling for a clean ambiance. And its progressive design, including superior blade technology, delivers high performance and easy management without compromise.

Visually appealing panel

Slim 1Way Cassette projects refined simplicity. The clean lines and simple display design make this a modern classic, which looks great with any interior.

Slim and compact design

At a height of only 135 mm, the Slim 1Way Cassette is the world's thinnest indoor air cooling unit. The compact, lightweight design makes installation and maintenance easier than ever with a panel area that's been reduced by 30 percent. And with its high performance and understated elegance, the unit blends seamlessly into interiors of all types and styles.

1. Specification

1Way Cassette

System	Model Name	Indoor Unit			AC026MN1DKH/EU	AC035MN1DKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	0.96 / 2.60 / 3.50	1.00 / 3.50 / 4.10
				Btu/h	3,300 / 8,900 / 11,900	3,400 / 11,900 / 14,000
			Heating (Min/Std/Max)	kW	0.98 / 3.30 / 4.40	1.00 / 4.00 / 5.00
				Btu/h	3,300 / 11,300 / 15,000	3,400 / 13,600 / 17,100
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.25 / 0.72 / 1.20	0.24 / 1.09 / 1.50
			Heating (Min/Std/Max)	kW	0.20 / 0.96 / 1.45	0.19 / 1.39 / 1.80
		Current Input	Cooling (Min/Std/Max)	A	1.60 / 4.10 / 5.40	1.60 / 5.60 / 7.50
			Heating (Min/Std/Max)	A	1.40 / 4.90 / 7.00	1.30 / 6.20 / 10.50
		Current	MCA	A	11	11
			MFA	A	12.5	12.5
	Efficiency	EER	Cooling	W/W	3.61	3.21
		COP	Heating	W/W	3.44	2.88
		SEER (Cooling Energy Grade)		W/W	6.2 (A++)	6.1 (A++)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)
		Pdesignh		kW	2	2
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm	6.35	6.35
				Φ, inch	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm	9.52	9.52
				Φ, inch	3/8	3/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5
			Max.	m	20	20
			Elevation	m	15	15
			Chargeless	m	20	20
	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_2e	1.05 / 2.19	1.05 / 2.19

1. Specification

1Way Cassette

Indoor Unit	Model Name	Indoor Unit			AC026MN1DKH/EU	AC035MN1DKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/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		-	Crossflow Fan	Crossflow Fan
		Quantity		EA	1	1
		Air Flow Rate	High/Mid/Low	CMM	7.3 / 6.5 / 5.8	9.0 / 8.2 / 7.2
				l/s	121.7 / 108.3 / 96.7	150.0 / 136.7 / 120.0
		External Static Pressure	Min/Std/Max	mmAq	-	-
				Pa	-	-
	Fan Motor	Output		W x n	17 x 1	17 x 1
	Drain	Drain Pipe		Φ, mm	VP-20(OD26, ID20)	VP-20(OD26, ID20)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	30 / 27 / 24 / 23	33 / 30 / 27 / 26
		Sound Power Level		dB(A)	52	55
	External Dimension	Net Weight		kg	9.5	9.5
		Shipping Weight		kg	12.2	12.2
		Net Dimensions (WxHxD)		mm	970 x 135 x 410	970 x 135 x 410
		Shipping Dimensions (WxHxD)		mm	1173 x 231 x 487	1173 x 231 x 487
	Casing	Material		-	ABS	ABS
	Panel (1)	Model Name		-	PC1NUSMAN	PC1NUSMAN
		Type		-	Stripe Type	Stripe Type
		Material		-	ABS	ABS
		Color		-	White	White
		Net Weight		kg	3.1	3.1
		Shipping Weight		kg	6.4	6.4
		Net Dimensions (WxHxD)		mm	1180 x 25 x 460	1180 x 25 x 460
		Shipping Dimensions (WxHxD)		mm	1262 x 144 x 542	1262 x 144 x 542
	Panel (2)	Model Name		-	PC1NUPMAN	PC1NUPMAN
		Type		-	Z-Slide Type	Z-Slide Type
		Material		-	ABS	ABS
		Color		-	White	White
		Net Weight		kg	5.2	5.2
		Shipping Weight		kg	8.1	8.1
		Net Dimensions (WxHxD)		mm	1198 x 25 x 500	1198 x 25 x 500
		Shipping Dimensions (WxHxD)		mm	1275 x 152 x 580	1275 x 152 x 580
	Panel (3)	Model Name		-	PC1NWSMAN	PC1NWSMAN
		Type		-	Fluid Type	Fluid Type
		Material		-	ABS	ABS
		Color		-	White	White
		Net Weight		kg	5.5	5.5
		Shipping Weight		kg	7.2	7.2
		Net Dimensions (WxHxD)		mm	1198 x 25 x 500	1198 x 25 x 500
		Shipping Dimensions (WxHxD)		mm	1275 x 152 x 580	1275 x 152 x 580
	Control System	Infrared remote control		-	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	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		-	-	-

1. Specification

1Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC026MN1DKH/EU	AC035MN1DKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/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
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UG9AJ3090FER	UG9AJ3090FER
		Output		kW	0.83	0.83
		Oil	Type	-	POE	POE
			Initial charge	cc	320	320
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		CMM	29	30
				l/s	483	500
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	68 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48
			Heating	dB(A)	47	48
		Sound Power Level		dB(A)	59	61
	External Dimension	Net Weight		kg	32.8	32.8
		Shipping Weight		kg	35.8	35.8
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	926 x 640 x 384
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50
		Heating		℃	-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

1Way 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)				
AC026MN1DKH/EU	9.5	Max.	3.5	4.4	High	7.3 / 8.5	30	52
		Std.	2.6	3.3	Mid	6.5 / 7.2	27	-
		Min.	0.96	0.98	Low	5.8 / 6.5	24	-
AC035MN1DKH/EU	9.5	Max.	4.1	5.0	High	9.0 / 10.0	33	55
		Std.	3.5	4.0	Mid	8.2 / 8.4	30	-
		Min.	1.0	1.0	Low	7.2 / 7.3	27	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC026MN1DKH/EU	AC026MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5
AC035MN1DKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5

NOTE

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

3. Capacity Table

1Way Cassette

(1) AC026MN1DKH/EU + AC026MXADKH/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	2.50	2.00	0.52	2.70	2.00	0.53	2.80	2.10	0.54	2.90	2.20	0.55	2.90	2.20	0.55	3.10	2.10	0.56	3.20	2.10	0.57
21	2.40	1.90	0.54	2.50	2.00	0.55	2.60	2.00	0.56	2.70	2.10	0.58	2.80	2.10	0.58	2.90	2.00	0.59	3.10	2.00	0.60
35	2.30	1.80	0.68	2.40	1.90	0.69	2.50	1.90	0.71	2.60	2.00	0.72	2.70	2.00	0.73	2.80	1.90	0.73	2.90	1.90	0.75
46	2.00	1.70	0.61	2.10	1.80	0.62	2.10	1.80	0.64	2.20	1.90	0.65	2.30	1.90	0.65	2.40	1.80	0.66	2.50	1.80	0.67
50	1.50	1.40	0.54	1.60	1.40	0.55	1.60	1.40	0.56	1.70	1.50	0.58	1.70	1.50	0.58	1.80	1.50	0.59	1.90	1.40	0.60

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	2.30	1.27	2.30	1.26	2.30	1.25	2.30	1.24	2.20	1.22	2.20	1.21
-15	2.90	1.47	2.90	1.45	2.90	1.44	2.80	1.43	2.80	1.41	2.80	1.40
-5	3.30	1.37	3.30	1.36	3.20	1.34	3.20	1.33	3.20	1.32	3.10	1.30
0	3.40	1.18	3.40	1.16	3.40	1.15	3.30	1.14	3.30	1.13	3.30	1.12
7	3.40	0.98	3.30	0.97	3.30	0.96	3.30	0.95	3.20	0.94	3.20	0.93
24	4.40	1.13	4.30	1.12	4.30	1.10	4.20	1.09	4.20	1.08	4.20	1.07

NOTE

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

3. Capacity Table

1Way Cassette

(2) AC035MN1DKH/EU + AC035MXADKH/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	3.40	2.50	0.78	3.60	2.60	0.80	3.70	2.70	0.81	3.90	2.70	0.83	3.90	2.70	0.84	4.10	2.70	0.84	4.30	2.60	0.86
21	3.30	2.40	0.82	3.40	2.50	0.84	3.60	2.50	0.85	3.70	2.60	0.87	3.70	2.60	0.88	3.90	2.60	0.89	4.10	2.50	0.91
35	3.10	2.30	1.03	3.30	2.30	1.05	3.40	2.40	1.07	3.50	2.50	1.09	3.60	2.50	1.10	3.70	2.40	1.11	3.90	2.40	1.13
46	2.60	2.10	0.92	2.80	2.20	0.94	2.90	2.30	0.96	3.00	2.30	0.98	3.00	2.30	0.99	3.20	2.30	1.00	3.30	2.20	1.02
50	2.00	1.70	0.82	2.10	1.70	0.84	2.20	1.80	0.85	2.30	1.80	0.87	2.30	1.80	0.88	2.40	1.80	0.89	2.60	1.80	0.91

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	2.80	1.84	2.80	1.83	2.80	1.81	2.70	1.79	2.70	1.77	2.70	1.75
-15	3.50	2.13	3.50	2.11	3.50	2.09	3.40	2.06	3.40	2.04	3.40	2.02
-5	4.00	1.99	4.00	1.97	3.90	1.95	3.90	1.93	3.80	1.91	3.80	1.89
0	4.20	1.70	4.10	1.68	4.10	1.67	4.00	1.65	4.00	1.63	4.00	1.62
7	4.10	1.42	4.00	1.40	4.00	1.39	4.00	1.38	3.90	1.36	3.90	1.35
24	5.30	1.63	5.30	1.61	5.20	1.60	5.10	1.58	5.10	1.57	5.00	1.55

NOTE

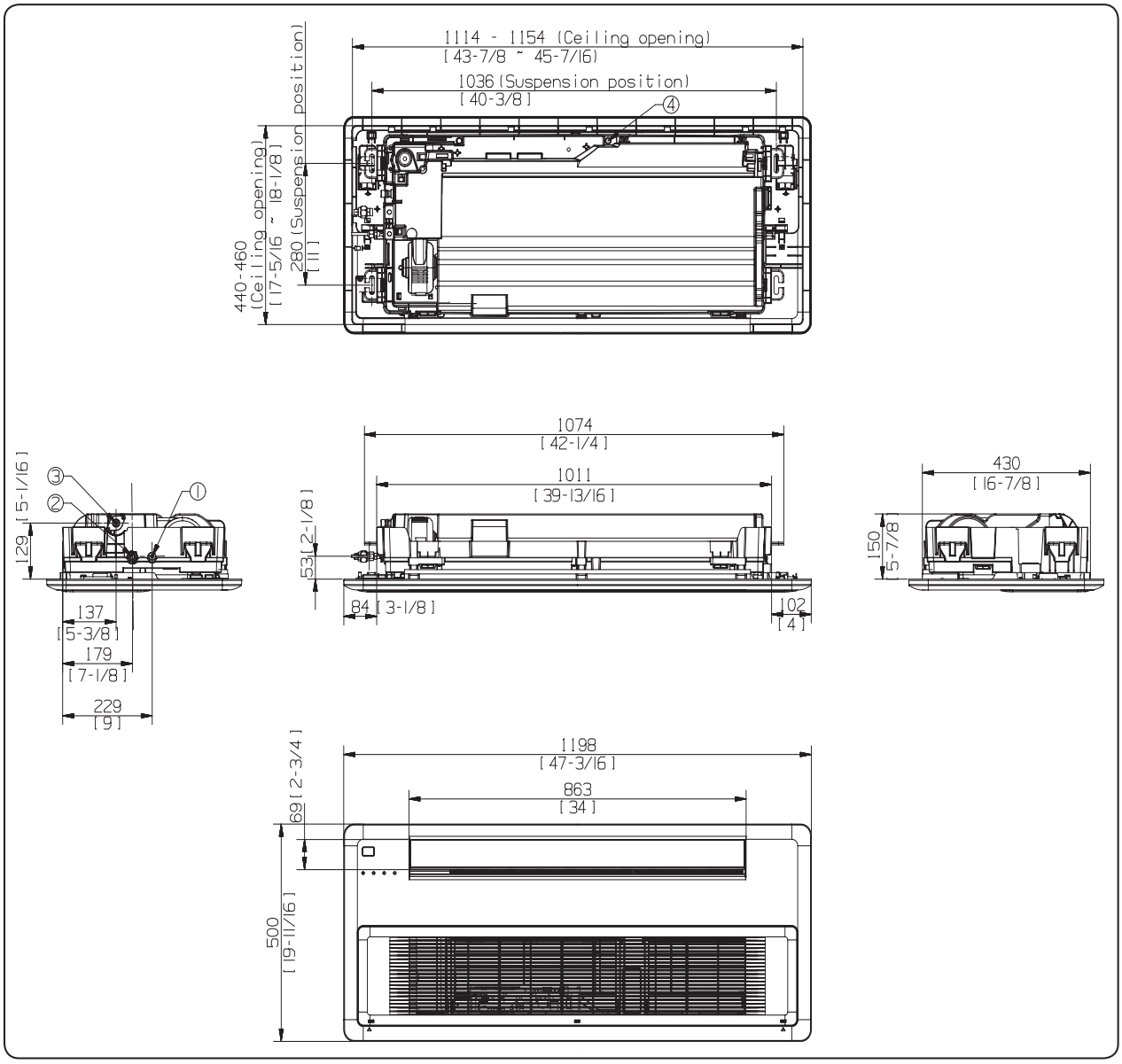
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

1Way Cassette

AC026/035MN1DKH/EU

Units : mm [inches]



NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ9.52(3/8)
3	Drain pipe connection	VP-20(OD26, ID20)
4	Power supply & Communication wiring conduit	

NOTE

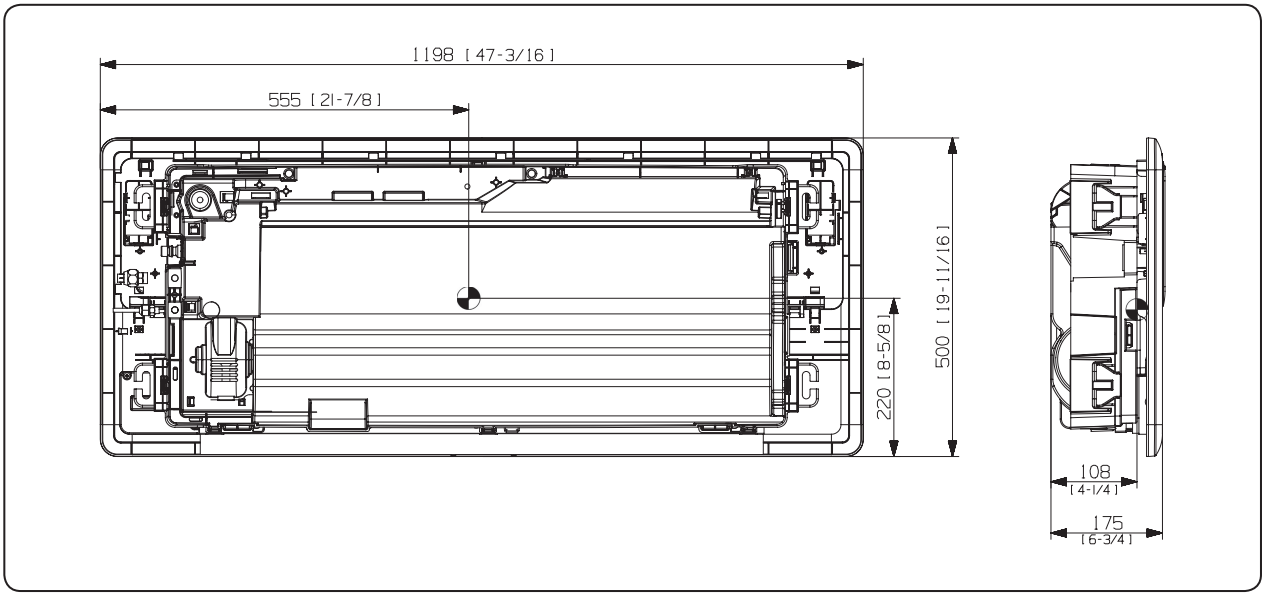
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

1Way Cassette

AC026/035MN1DKH/EU

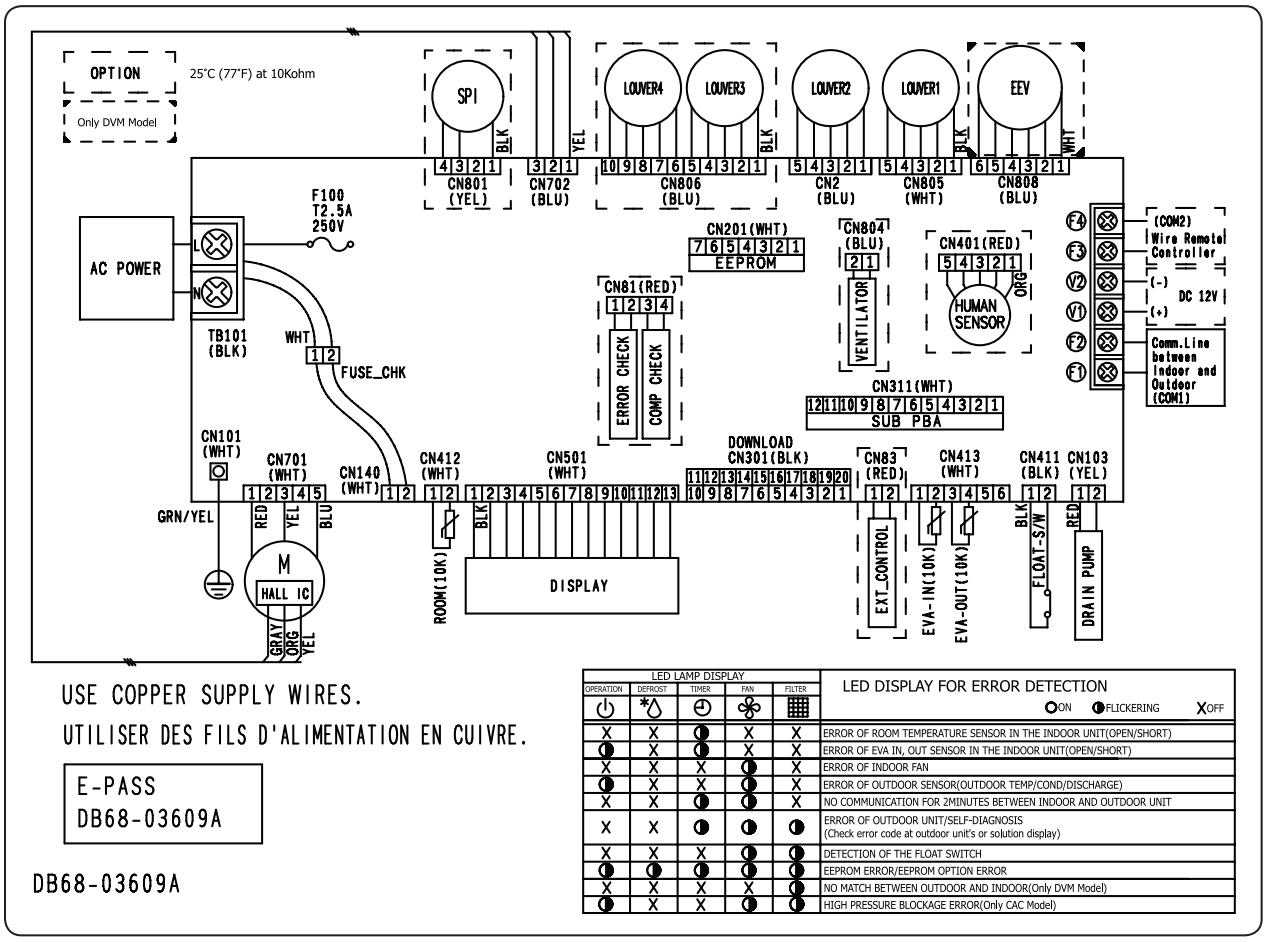
Units : mm [inches]



6. Electrical Wiring Diagram

1Way Cassette

AC026/035MN1DKH/EU



SUB PBA	Printed Circuit Board(SUB)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
		EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
		EXT_CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

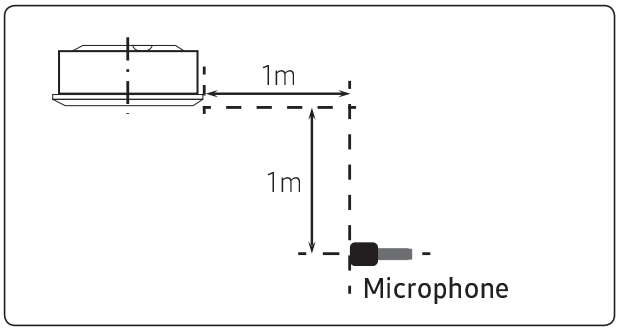
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective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

7. Sound Data

1Way Cassette

Sound Pressure level

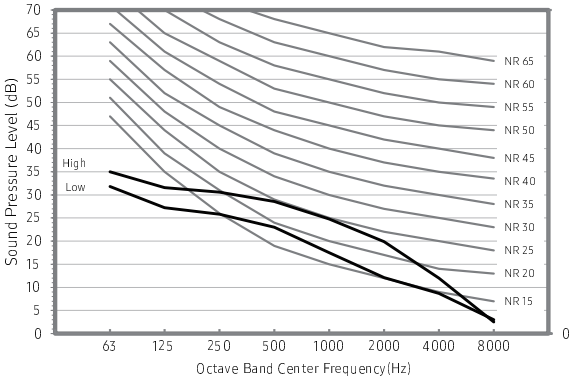
Unit: dB(A)



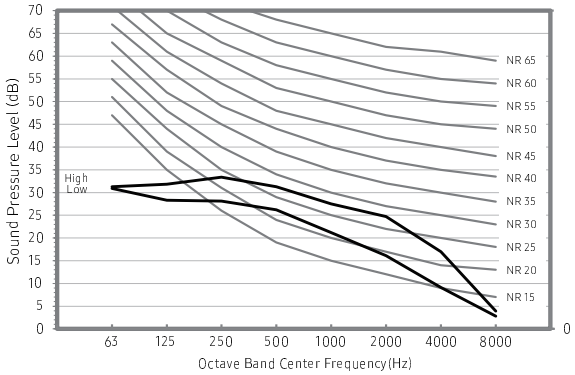
Model	Hi	MID	LOW
AC026MN1DKH/EU	30	27	24
AC035MN1DKH/EU	33	30	27

- NR Curve

1) AC026MN1DKH/EU



2) AC035MN1DKH/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

1Way Cassette

Sound Power level

NOTE

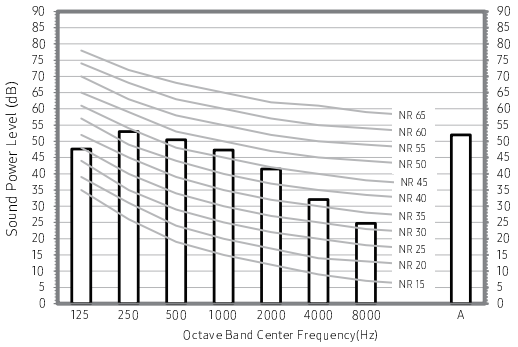
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

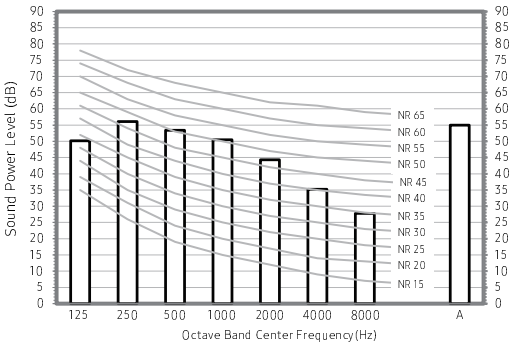
Model	Power
AC026MN1DKH/EU	52
AC035MN1DKH/EU	55

- NR Curve

1) AC026MN1DKH/EU



2) AC035MN1DKH/EU



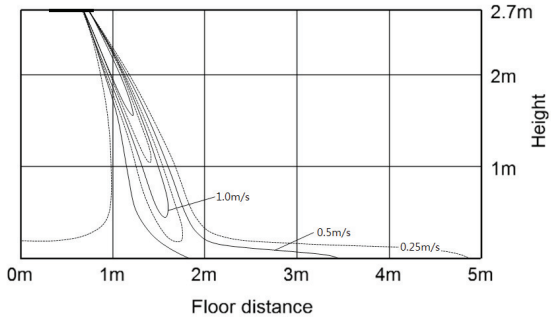
8. Temperature and air flow distribution

1Way Cassette

AC026MN1DKH/EU

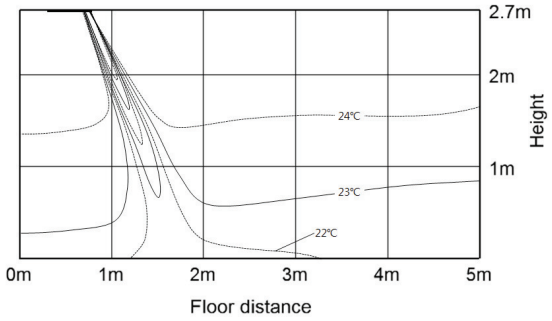
- Cooling Air Velocity distribution

  (Discharge angle : 60 degree)



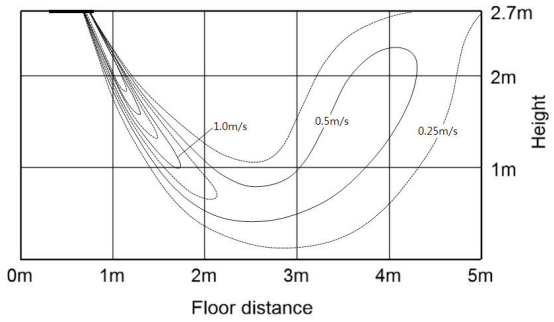
- Cooling temperature distribution

  (Discharge angle : 60 degree)



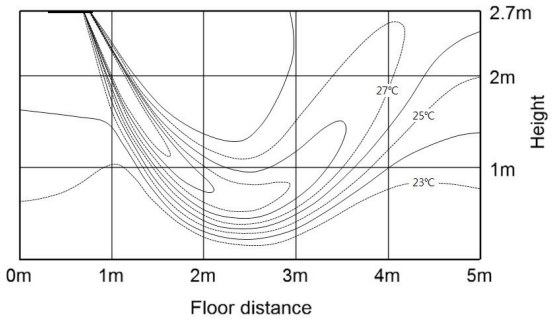
- Heating Air Velocity distribution

  (Discharge angle : 60 degree)



- Heating temperature distribution

  (Discharge angle : 60 degree)



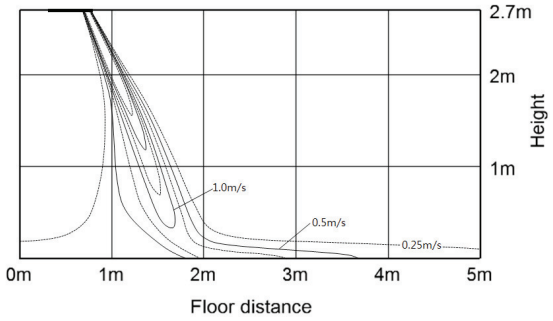
8. Temperature and air flow distribution

1Way Cassette

AC035MN1DKH/EU

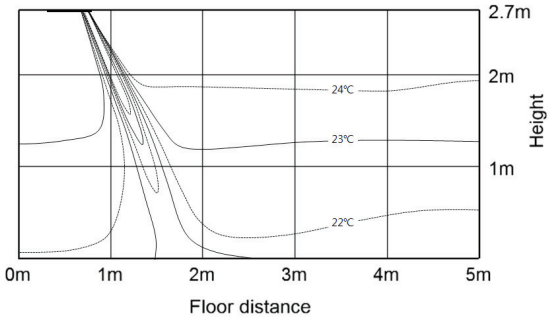
- Cooling Air Velocity distribution

  (Discharge angle : 60 degree)



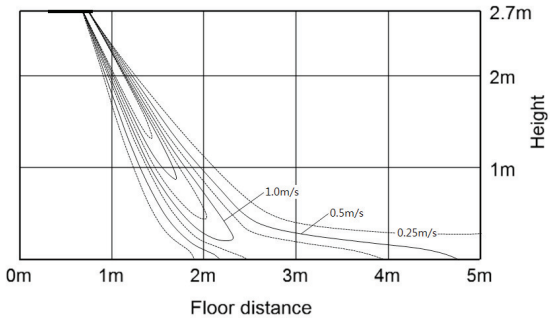
- Cooling temperature distribution

  (Discharge angle : 60 degree)



- Heating Air Velocity distribution

  (Discharge angle : 60 degree)



- Heating temperature distribution

  (Discharge angle : 60 degree)