Console

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Features & Benefits

Console Type - Luxurious style and calm

Create an exquisite interior complemented by elegant design and quiet performance

The slim, elegant Samsung Console Type indoor unit is designed to perfectly fit spaces with high Consoles and numerous windows while maintaining an optimal indoor temperature. Samsung's console air conditioning solution makes any environment more pleasant and comfortable with features such as:

Two-way airflow

Featuring a 2-way air outlet, Samsung's console unit includes two separate air outlets for cooling and heating. The warmer air comes out from the bottom part of the air outlet to spread the warm air evenly throughout the room. Users stay cooler or warmer in every corner of the room.

Slim, low-profile design

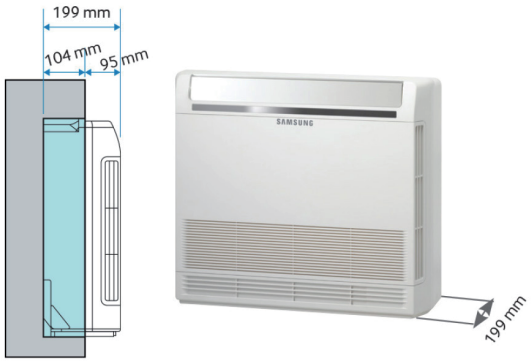
Samsung's console type air conditioner is only 199 mm thick, the slimmest on the market, and its unobtrusive design easily integrates into any décor.

Stay-clean panel

The intelligently designed clean panel keeps dust from accumulating, so the unit and the room stay cleaner.

Sophisticated control

The touchscreen display delivers convenient control, and is an elegant example of functional art.



1. Specification

Console

System	Model Name	Indoor Unit			AC026RNJDKG/EU	AC035RNJDKG/EU	AC052RNJDKG/EU
		Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU	AC052RXADKG/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.0 / 2.6 / 3.4	1.2 / 3.5 / 3.9	1.9 / 5.0 / 5.5
				Btu/h	3,410 / 8,870 / 11,600	4,100 / 11,940 / 13,510	6,480 / 17,060 / 18,770
			Heating	kW	1.0 / 3.5 / 4.2	1.1 / 4.0 / 4.6	1.5 / 5.6 / 6.5
				Btu/h	3,410 / 11,940 / 14,330	3,750 / 13,650 / 15,700	5,120 / 19,100 / 22,180
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.23 / 0.72 / 1.20	0.25 / 1.12 / 1.50	0.25 / 1.79 / 2.20
			Heating	kW	0.21 / 1.06 / 1.45	0.21 / 1.30 / 1.80	0.25 / 1.86 / 2.50
		Current Input (Min/Std/Max)	Cooling	A	1.6 / 3.6 / 5.5	1.6 / 5.5 / 7.5	2.6 / 8.0 / 10.0
			Heating	A	1.3 / 5.0 / 7.0	1.3 / 5.9 / 10.5	2.3 / 8.3 / 14.0
		Current	MCA	A	11.0	11.0	17.5
			MFA	A	12.5	12.5	20.6
	Efficiency	EER	Cooling	-	3.61	3.12	2.79
		COP	Heating	-	3.30	3.07	3.01
		SEER (Cooling Energy Grade)		-	6.4 (A++)	6.1 (A++)	5.9 (A+)
		SCOP (Heating Energy Grade)		-	4.2 (A+)	4.1(A+)	4.0 (A+)
		Pdesignh		kW	2.0	2.0	2.4
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
		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.	m	20	20	30
			Elevation	m	15	15	20
			Chargeless	m	20	20	10
	Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
			Remark	-	F1, F2	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32	R32
		Factory Charging		kg	0.9	0.9	1.2
				tCO_2e	0.61	0.61	0.81

1. Specification

Console

Indoor Unit	Model Name	Indoor Unit			AC026RNJDKG/EU	AC035RNJDKG/EU	AC052RNJDKG/EU
		Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU	AC052RXADKG/EU
	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type		-	F&T	F&T	F&T
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Fan	Type		-	Turbo	Turbo	Turbo
		Quantity		EA	1	1	1
		Air Flow Rate	Cooling (H/M/L)	m³/min	7.5 / 6.8 / 6.0	8.5 / 7.2 / 6.2	9.4 / 8.4 / 7.4
				l/s	125 / 113 / 100	142 / 120 / 103	157 / 140 / 123
			Heating (H/M/L)	m³/min	8.5 / 7.2 / 6.2	9.0 / 8.2 / 7.2	11.0/9.7/8.5
				l/s	142 / 120 / 103	150 / 137 / 120	183 / 162 / 142
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	35 x 1	35 x 1	35 x 1
	Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose	ID18mm Hose
	Sound	Sound Pressure Level	High/Mid/ Low/(Silent)	dB(A)	36 / 31 / 26 / 23	38 / 34 / 30 / 24	43 / 39 / 35 / 32
		Sound Power Level		dB(A)	53	55	60
	External Dimension	Net Weight		kg	16.0	16.0	16.0
		Shipping Weight		kg	20.5	20.5	21.0
		Net Dimensions (WxHxD)		mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199
		Shipping Dimensions (WxHxD)		mm	805 x 705 x 297	805 x 705 x 297	805 x 705 x 297
	Casing	Material		-	ABS	ABS	ABS
	Control System	Infrared remote control		-	Included	Included	Included
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter / h	-	-	-
	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		-	Included	Included	Included

1. Specification

Console

Outdoor Unit	Model Name	Indoor Unit			AC026RNJDKG/EU	AC035RNJDKG/EU	AC052RNJDKG/EU
		Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU	AC052RXADKG/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
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB9AK5090FER	UB9AK5090FER	UB9TK3150FE4
		Type		-	Single BLDC	Single BLDC	Twin BLDC
		Output		kW	0.86	0.86	1.51
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	320	320	500
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		m^3/min	30	30	40
				l/s	500	500	667
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	40 x 1	40 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48	48
			Heating	dB(A)	47	48	48
		Sound Power Level		dB(A)	59	61	62
	External Dimension	Net Weight		kg	32.5	32.5	43
		Shipping Weight		kg	35.5	35.5	46.5
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	913 x 622 x 371	1,023 x 742 x 413
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15~46	-15~46	-15 ~ 50
		Heating		℃	-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

Console

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)				
AC026RNJDKG/EU	16.0	Max.	3.40	4.20	High	7.5	36	53
		Std.	2.60	3.50	Mid	6.8	31	
		Min.	1.00	1.00	Low	6.0	26	
AC035RNJDKG/EU	16.0	Max.	3.90	4.60	High	8.5	38	55
		Std.	3.50	4.00	Mid	7.2	34	
		Min.	1.20	1.10	Low	6.2	30	
AC052RNJDKG/EU	16.0	Max.	5.50	6.50	High	9.0	43	60
		Std.	5.00	5.60	Mid	8.0	39	
		Min.	1.90	1.50	Low	7.0	35	

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				
AC026RNJDKG/EU	AC026RXADKG/EU	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
AC035RNJDKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
AC052RNJDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6

NOTE

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

3. Capacity Table

Console

(1) AC026RNJDKG/EU+AC026RXADKG/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	2.5	2.2	0.52	2.7	2.3	0.53	2.8	2.3	0.54	2.9	2.4	0.55	2.9	2.4	0.55	3.1	2.4	0.56	3.2	2.3	0.57
21	2.4	2.1	0.54	2.5	2.2	0.55	2.6	2.2	0.56	2.7	2.3	0.58	2.8	2.3	0.58	2.9	2.2	0.59	3.1	2.2	0.60
35	2.3	2.0	0.68	2.4	2.1	0.69	2.5	2.1	0.71	2.6	2.2	0.72	2.7	2.2	0.73	2.8	2.1	0.73	2.9	2.1	0.75
46	2.0	1.8	0.61	2.1	1.9	0.62	2.1	2.0	0.64	2.2	2.0	0.65	2.3	2.0	0.65	2.4	2.0	0.66	2.5	1.9	0.67

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	2.5	1.41	2.4	1.39	2.4	1.38	2.4	1.36	2.4	1.35	2.3	1.34
-15	3.1	1.62	3.1	1.61	3.0	1.59	3.0	1.57	3.0	1.56	3.0	1.54
-5	3.5	1.51	3.5	1.50	3.4	1.48	3.4	1.47	3.4	1.45	3.3	1.44
0	3.6	1.30	3.6	1.28	3.6	1.27	3.5	1.26	3.5	1.25	3.5	1.23
7	3.6	1.08	3.5	1.07	3.5	1.06	3.5	1.05	3.4	1.04	3.4	1.03
24	4.6	1.24	4.6	1.23	4.6	1.22	4.5	1.21	4.5	1.19	4.4	1.18

NOTE

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

3. Capacity Table

Console

(2) AC035RNJDKG/EU+AC035RXADKG/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	3.4	2.7	0.80	3.6	2.8	0.82	3.7	2.9	0.83	3.9	3.0	0.85	3.9	3.0	0.86	4.1	2.9	0.87	4.3	2.9	0.89
21	3.3	2.6	0.84	3.4	2.7	0.86	3.6	2.8	0.88	3.7	2.9	0.90	3.7	2.8	0.90	3.9	2.8	0.91	4.1	2.8	0.93
35	3.1	2.5	1.05	3.3	2.6	1.08	3.4	2.6	1.10	3.5	2.7	1.12	3.6	2.7	1.13	3.7	2.7	1.14	3.9	2.6	1.17
46	2.6	2.3	0.95	2.8	2.4	0.97	2.9	2.5	0.99	3.0	2.5	1.01	3.0	2.5	1.02	3.2	2.5	1.03	3.3	2.4	1.05

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	2.8	1.72	2.8	1.71	2.8	1.69	2.7	1.67	2.7	1.66	2.7	1.64
-15	3.5	1.99	3.5	1.97	3.5	1.95	3.4	1.93	3.4	1.91	3.4	1.89
-5	4.0	1.86	4.0	1.84	3.9	1.82	3.9	1.80	3.8	1.78	3.8	1.77
0	4.2	1.59	4.1	1.58	4.1	1.56	4.0	1.54	4.0	1.53	4.0	1.51
7	4.1	1.33	4.0	1.31	4.0	1.30	4.0	1.29	3.9	1.27	3.9	1.26
24	5.3	1.53	5.3	1.51	5.2	1.50	5.1	1.48	5.1	1.47	5.0	1.45

NOTE

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

3. Capacity Table

Console

(3) AC052RNJDKG/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	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.4	1.28	5.1	3.5	1.31	5.3	3.6	1.33	5.5	3.7	1.36	5.6	3.7	1.37	5.9	3.7	1.39	6.2	3.6	1.42
21	4.6	3.3	1.35	4.9	3.4	1.38	5.1	3.5	1.40	5.3	3.6	1.43	5.4	3.5	1.45	5.6	3.5	1.46	5.9	3.4	1.49
35	4.4	3.1	1.68	4.7	3.2	1.72	4.9	3.3	1.75	5.0	3.4	1.79	5.1	3.4	1.81	5.4	3.3	1.83	5.6	3.3	1.86
46	3.8	2.9	1.52	4.0	3.0	1.55	4.1	3.1	1.58	4.3	3.2	1.61	4.3	3.2	1.63	4.6	3.1	1.64	4.8	3.1	1.68
50	2.9	2.3	1.35	3.0	2.4	1.38	3.2	2.5	1.40	3.3	2.5	1.43	3.3	2.5	1.45	3.5	2.5	1.46	3.7	2.4	1.49

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	3.9	2.47	3.9	2.44	3.9	2.42	3.8	2.39	3.8	2.37	3.7	2.35
-15	5.0	2.85	4.9	2.82	4.9	2.79	4.8	2.76	4.8	2.73	4.7	2.71
-5	5.6	2.66	5.5	2.63	5.5	2.60	5.4	2.58	5.4	2.55	5.3	2.53
0	5.8	2.28	5.8	2.25	5.7	2.23	5.7	2.21	5.6	2.19	5.5	2.17
7	5.7	1.90	5.7	1.88	5.6	1.86	5.5	1.84	5.5	1.82	5.4	1.80
24	7.4	2.18	7.4	2.16	7.3	2.14	7.2	2.12	7.1	2.10	7.1	2.08

NOTE

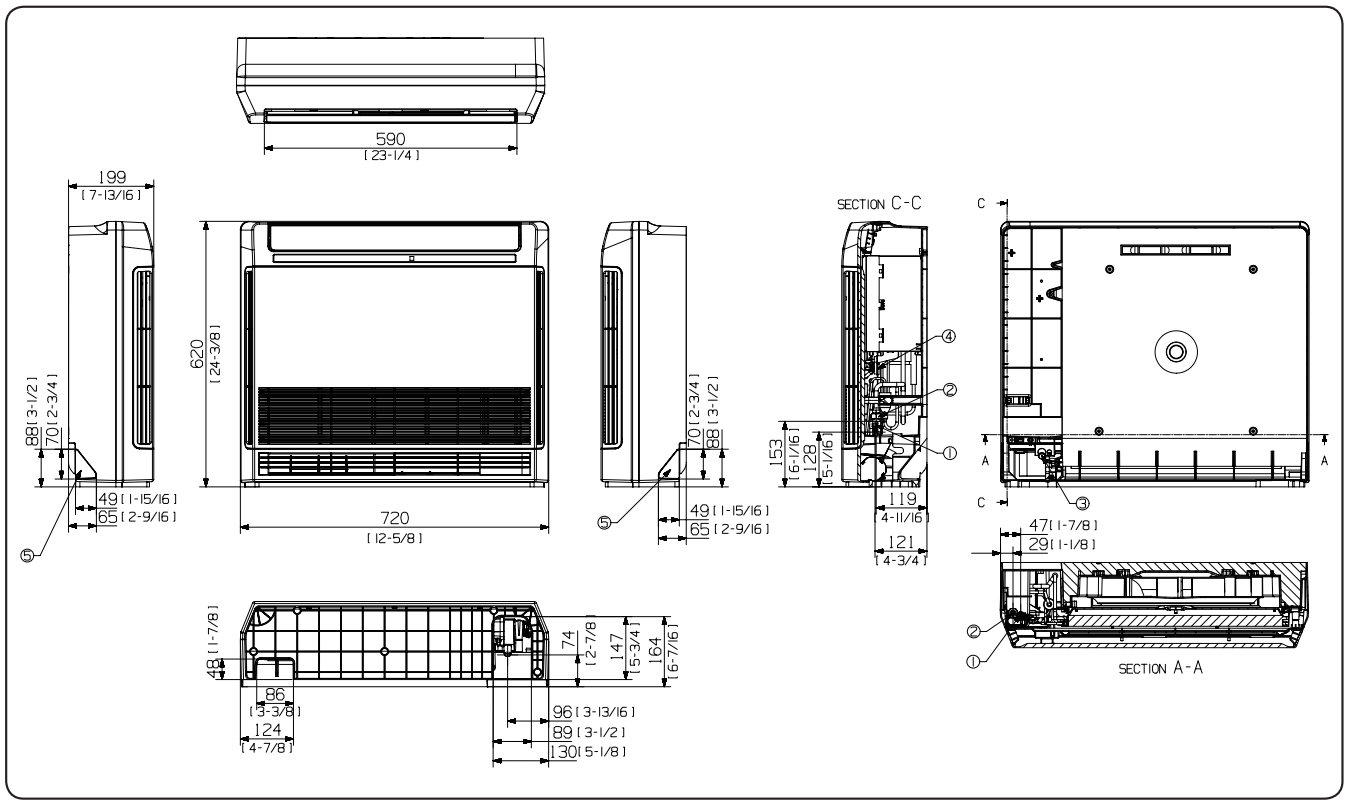
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Console

AC026/035/052RNJDKG/EU

Units : mm [inches]



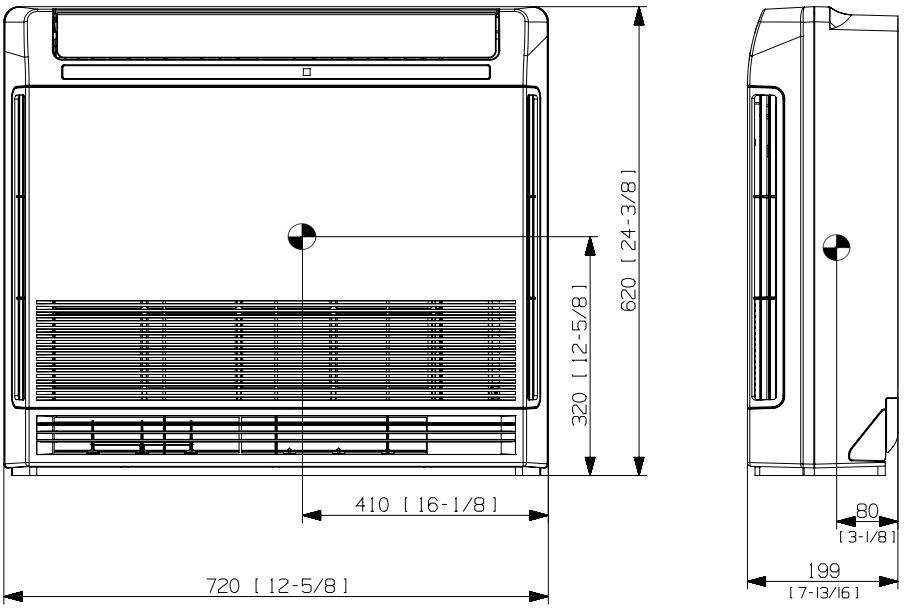
No.	Name	Description	
		AC026RNJDKG/EU AC035RNJDKG/EU	AC052RNJDKG/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)
3	Drain pipe connection	ID18mm [11/16inch] Hose	
4	Power supply & Communication wiring conduit		
6	Knockout hole for drain hose		

5. Center of Gravity

Console

AC026/035/052RNJDKG/EU

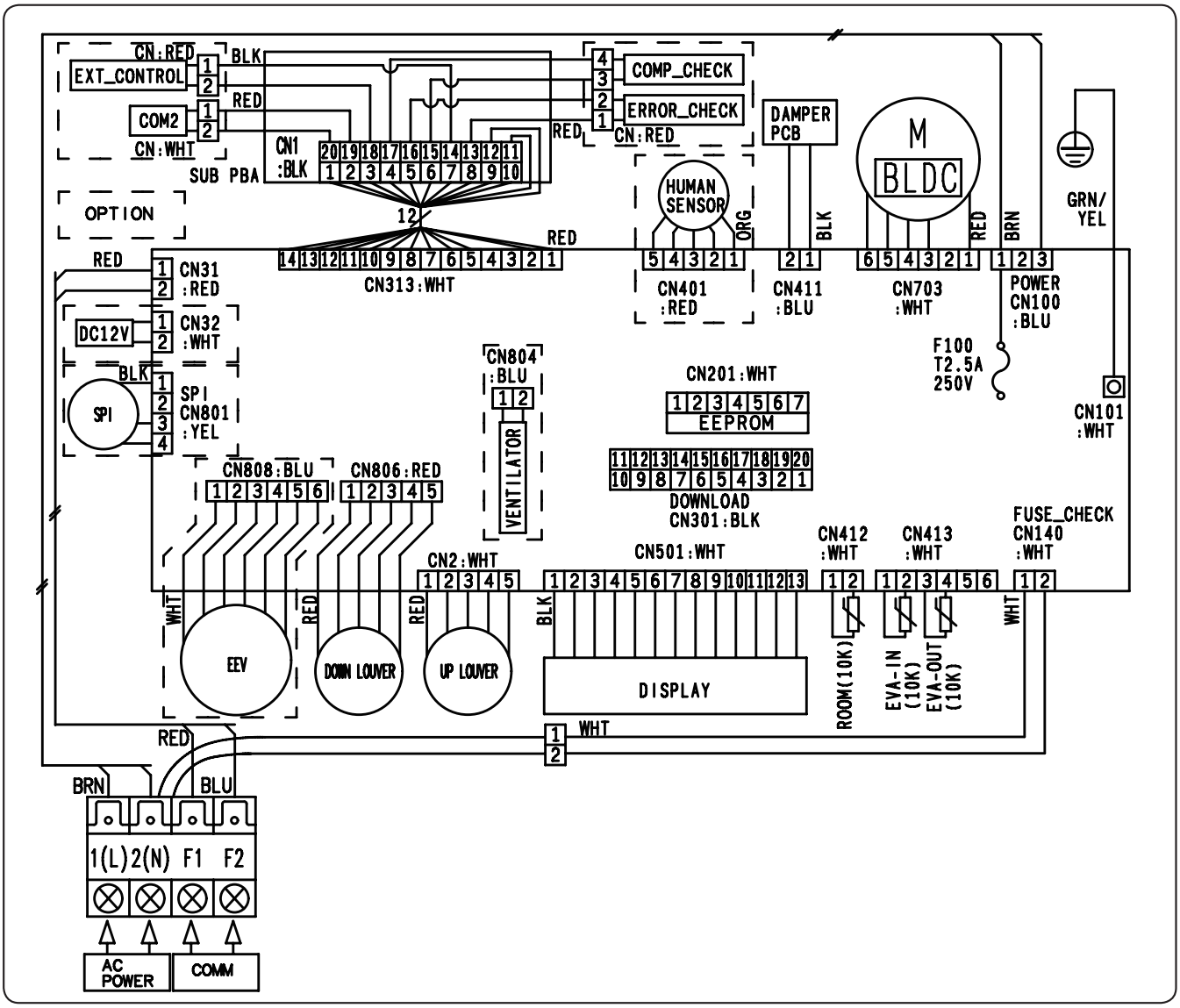
Units : mm [inches]



6. Electrical Wiring Diagram

Console

AC026/035/052RNJDKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

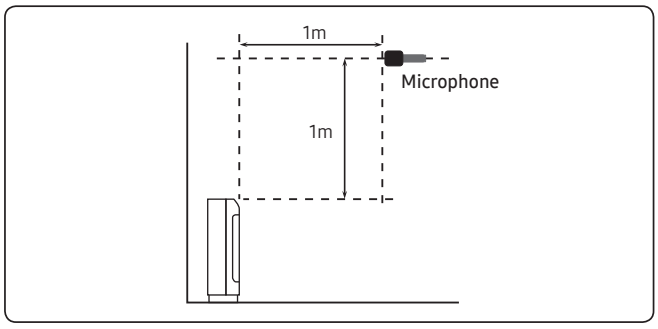
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow : blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
- ⏚ Protective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

7. Sound Data

Console

Sound Pressure level

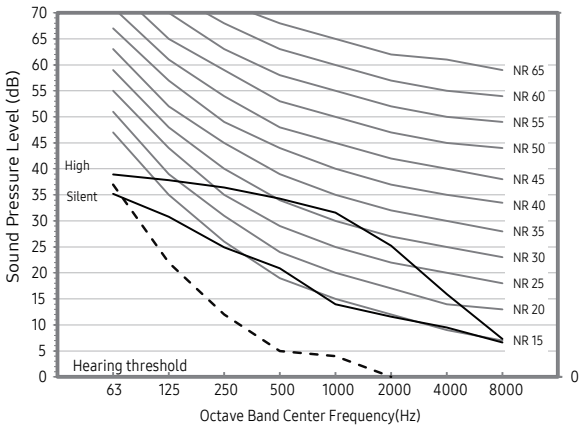
Unit: dB(A)



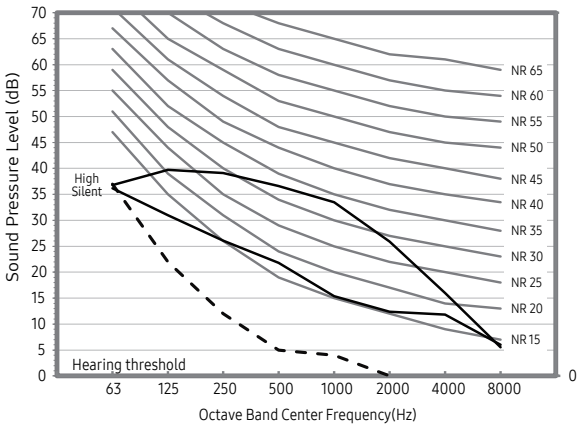
Model	HIGH	MID	LOW	Silent
AC026RNJDKG/EU	36	32	26	23
AC035RNJDKG/EU	38	34	30	24
AC052RNJDKG/EU	43	39	35	32

- NR Curve

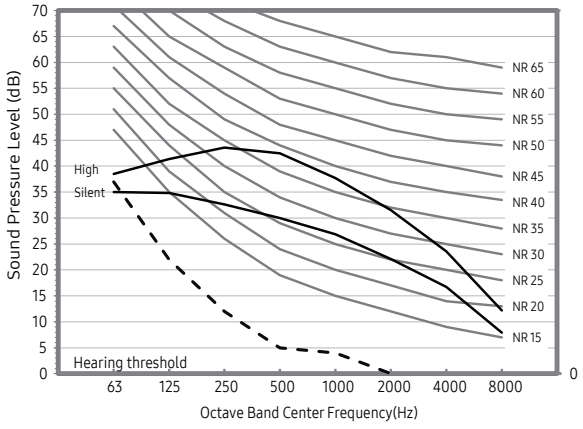
1) AC026RNJDKG/EU



2) AC035RNJDKG/EU



3) AC052RNJDKG/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

Console

Sound Power level

NOTE

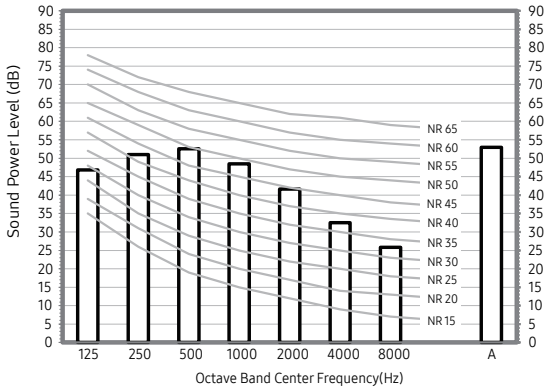
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

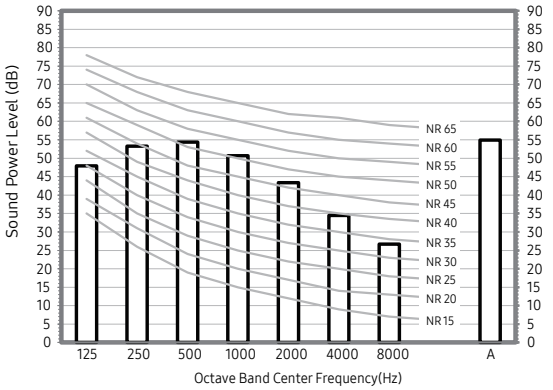
Model	Power
AC026RNJDKG/EU	53
AC035RNJDKG/EU	55
AC052RNJDKG/EU	60

- NR Curve

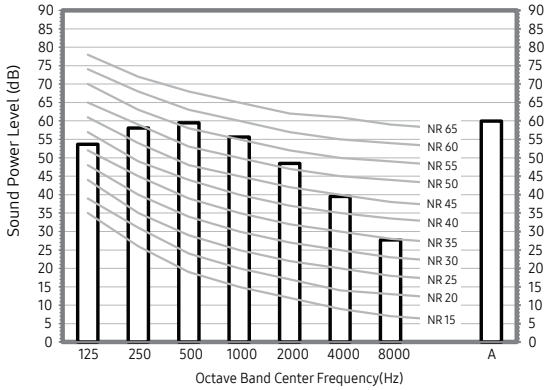
1) AC026RNJDKG/EU



2) AC035RNJDKG/EU



3) AC052RNJDKG/EU



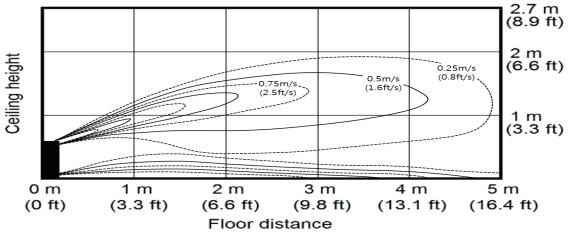
8. Temperature and air flow distribution

Console

AC026RNJDKG/EU

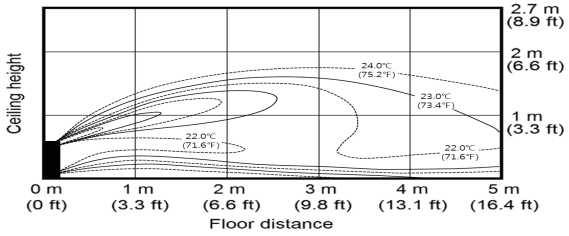
- Cooling Air Velocity distribution

  (Discharge angle : 40 degree)



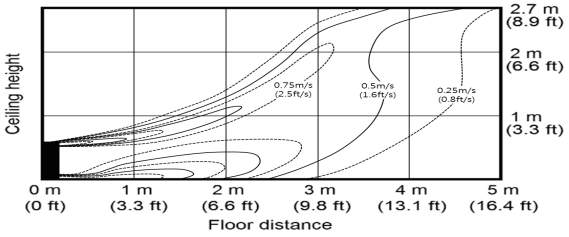
- Cooling temperature distribution

  (Discharge angle : 40 degree)



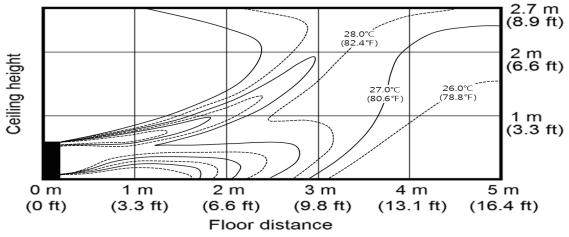
- Heating Air Velocity distribution

  (Discharge angle : 40 degree)



- Heating temperature distribution

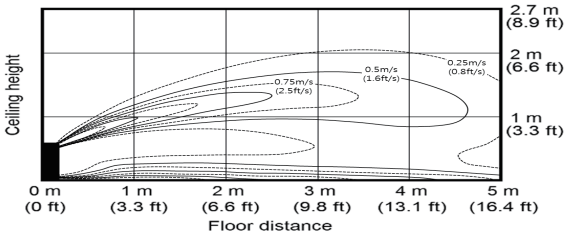
  (Discharge angle : 40 degree)



AC035RNJDKG/EU

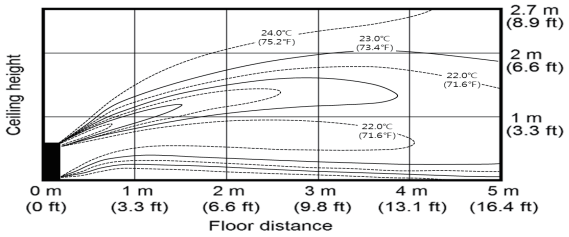
- Cooling Air Velocity distribution

  (Discharge angle : 40 degree)



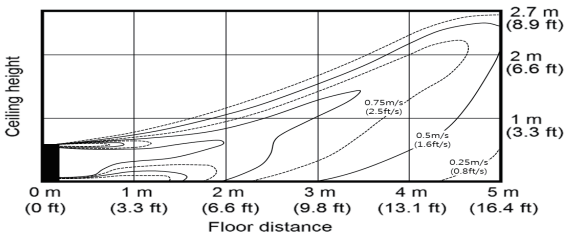
- Cooling temperature distribution

  (Discharge angle : 40 degree)



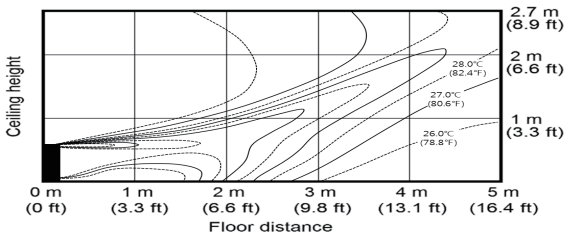
- Heating Air Velocity distribution

  (Discharge angle : 40 degree)



- Heating temperature distribution

  (Discharge angle : 40 degree)



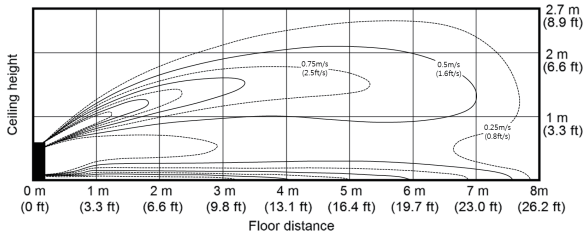
8. Temperature and air flow distribution

Console

AC052RNJDKG/EU

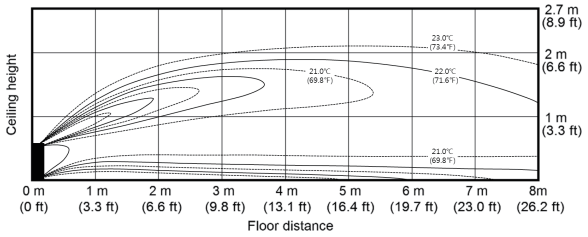
- Cooling Air Velocity distribution

  (Discharge angle : 40 degree)



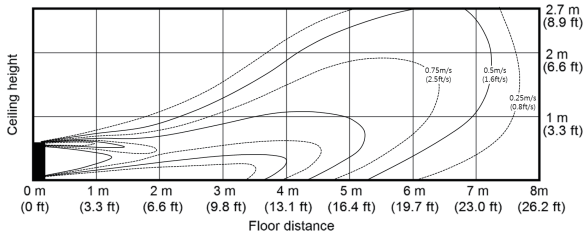
- Cooling temperature distribution

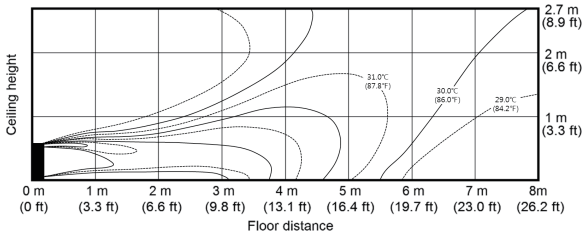
  (Discharge angle : 40 degree)



- Heating Air Velocity distribution

  (Discharge angle : 40 degree)



- Heating temperature distribution

  (Discharge angle : 40 degree)