

# Ceiling Simple yet Functional

Ceiling type indoor unit has two way installation options for the ceiling and floor, enabling you to use your available space more efficiently. You can enjoy crisp, powerful air spreading throughout your entire space from the compact unit in your ceiling or floor.



Interior Design



Pre Filter



Lightweight



Flexible



## 9-1. Specifications

## 1) Technical specifications

Model				AM056FNCDEH***	AM071FNCDEH***	
Power Supply		Ø, #, V, Hz		1, 2, 220-240, 50	1, 2, 220-240, 50	
Mode*1)				HP/HR	HP/HR	
Performance	Capacity (Nominal)	Cooling*2)	kW	5.6	7.1	
			Btu/h	19,100	24,200	
		Heating*3)	kW	6.3	8.0	
			Btu/h	21,500	27,300	
Power	Power Input (Nominal)	Cooling*2)	W	72	80	
		Heating*3)	W	72	77	
	Current Input (Nominal)	Cooling*2)	A	0.33	0.35	
		Heating*3)	A	0.28	0.29	
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	
		Output	W	60	120	
		Number of unit	EA	1	1	
	Air Flow Rate	H/M/L (UL)	CMM	14.00/13.00/12.00		18.00/16.50/15.00
			l/s	233.33/216.67/200.00		300.00/275.00/250.00
	External Pressure	Min / Std / Max	mmAq	-		-
			Pa	-		-
			WG	-		-
Option Code		-		013054-105000-203838-330010	013054-105000-204747-330010	
Piping Connections	Liquid Pipe	Ø, mm	6.35		9.52	
		Ø, inch	1/4		3/8	
	Gas Pipe	Ø, mm	12.70		15.88	
		Ø, inch	1/2		5/8	
Drain Pipe	Ø, mm	ID 18 HOSE		ID 18 HOSE		
Field Wiring	Power Source Wire	Below 20m / over 20m	mm <sup>2</sup>	1.5 / 2.5	1.5 / 2.5	
	Transmission Cable		mm <sup>2</sup>	0.75~1.5	0.75~1.5	
Refrigerant	Type	-	R410A		R410A	
	Control Method	-	EEV NOT INCLUDED		EEV NOT INCLUDED	
Sound	Sound Pressure	High / Mid / Low*4)	dBA	40 / 37 / 34	44 / 42 / 40	
Dimensions	Net Weight		kg	21.00	21.00	
	Shipping Weight		kg	25.50	25.50	
	Net Dimensions (W×H×D)		mm	1000 x 650 x 200	1000 x 650 x 200	
	Shipping Dimensions (W×H×D)		mm	1080 x 730 x 300	1080 x 730 x 300	
Panel Size	Panel model		-	-	-	
	Panel Net Weight		kg	-	-	
	Shipping Weight		kg	-	-	
	Net Dimensions (W×H×D)		mm	-	-	
	Shipping Dimensions (W×H×D)		mm	-	-	
Additional Accessories	Drain pump	Drain pump	- / Model	-	-	
		Max. lifting Height / Displacement	mm/liter/h	-	-	
	Air Filter		-	Long life filter	Long life filter	

\* Specifications may be subject to change without prior notice for product improvement.

## \*1) Mode

- HP : Heat Pump, HR : Heat Recovery

## \*2) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

## \*3) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

## \*4) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

## 9-2. Capacity tables

### 1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB) 14 (°C, WB)		23 (°C, DB) 16 (°C, WB)		26 (°C, DB) 18 (°C, WB)		27 (°C, DB) 19 (°C, WB)		28 (°C, DB) 20 (°C, WB)		30 (°C, DB) 22 (°C, WB)		32 (°C, DB) 24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
056	10	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.8	6.7	3.7
	12	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.8	6.7	3.7
	14	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.7
	16	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	18	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	20	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	21	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	23	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	25	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	27	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	29	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	31	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	33	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	35	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
37	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.5	3.5	
39	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.4	3.4	
071	10	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	8.0	4.9	8.5	4.7
	12	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.5	4.7
	14	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.5	4.7
	16	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	18	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	20	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	21	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	23	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	25	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	27	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	29	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	31	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	33	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	35	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
37	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.3	4.8	7.8	4.7	8.2	4.5	
39	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.3	4.8	7.7	4.6	8.1	4.4	

Indoor units

### 2) Heating

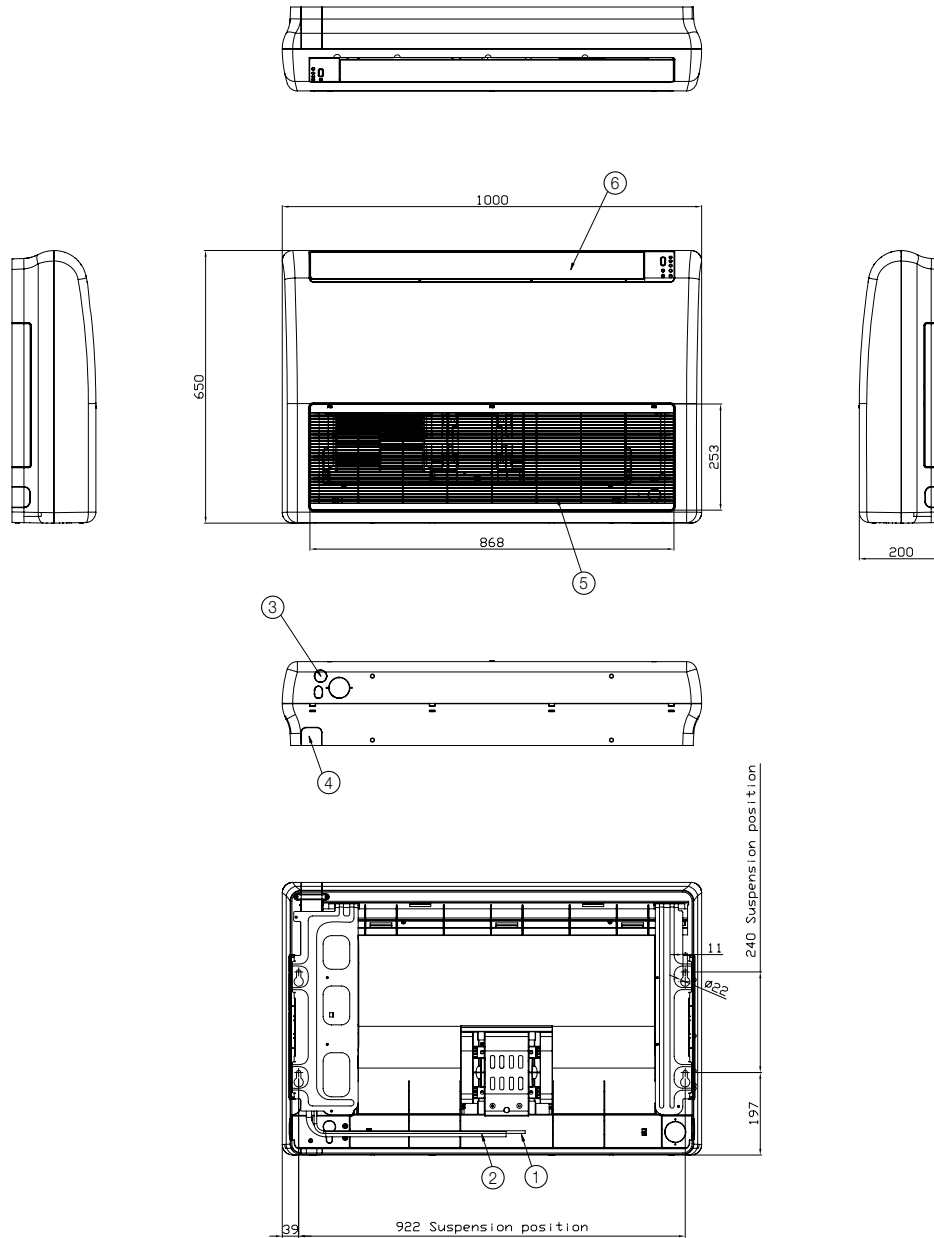
TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
		kW	kW	kW	kW	kW	
056	-20	-21	3.9	3.8	3.8	3.7	3.7
	-17	-18	4.0	4.0	3.9	3.8	3.8
	-15	-16	4.2	4.1	4.0	3.9	3.8
	-12	-13	4.4	4.3	4.2	4.2	4.1
	-10	-11	4.6	4.6	4.5	4.4	4.4
	-7	-8	4.9	4.8	4.8	4.7	4.5
	-5	-6	5.2	5.1	5.0	4.9	4.7
	-3	-4	5.4	5.3	5.3	5.1	4.9
	0	-1	5.7	5.6	5.5	5.3	5.0
	3	2.2	5.9	5.9	5.8	5.6	5.3
	5	4.1	6.2	6.1	6.0	5.7	5.3
	7	6	6.5	6.4	6.3	5.8	5.3
	9	7.9	6.7	6.5	6.3	5.8	5.3
	11	9.8	6.9	6.6	6.3	5.8	5.3
13	12	7.1	6.7	6.3	5.8	5.3	
15	14	7.3	6.8	6.3	5.8	5.3	
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
13	12	9.0	8.5	8.0	7.4	6.8	
15	14	9.2	8.6	8.0	7.4	6.8	

# 9 Ceiling

## 9-3. Dimensional drawing

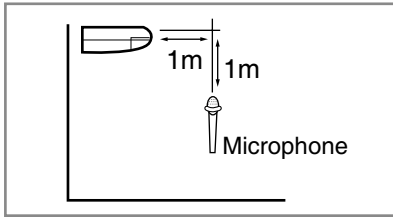
Unit:mm



No.	Name	Description	
		5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare
②	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

## 9-5. Sound pressure level

### 1) Operation sound level



Unit : dB(A)

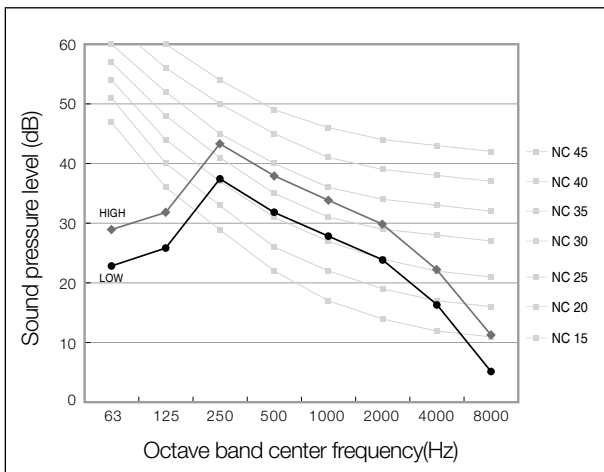
Model	High	Low
AM056FNCDEH***	40	34
AM071FNCDEH***	44	40

**Note**

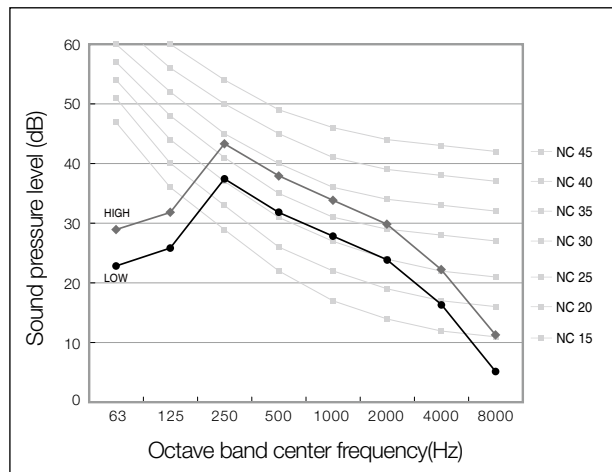
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

### 2) NC curves

(1) AM056FNCDEH\*\*\*



(2) AM071FNCDEH\*\*\*

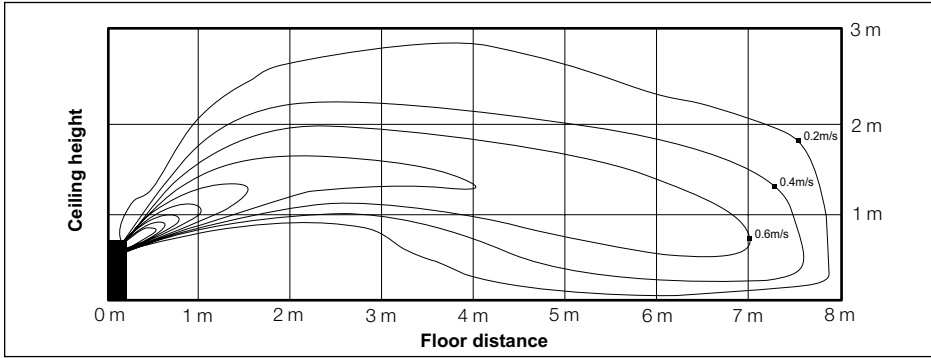


## 9-6. Temperature and air flow distribution

### 1) AM071FNCDEH\*\*\* (Floor installation)

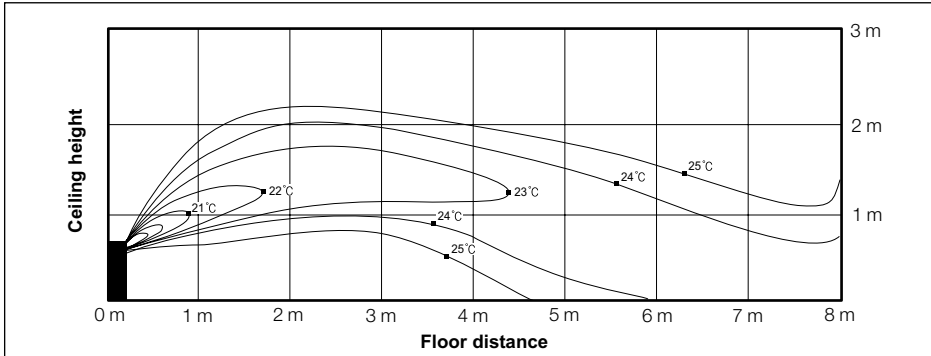
#### (1) Cooling air velocity distribution

◆ Discharge angle : 36°



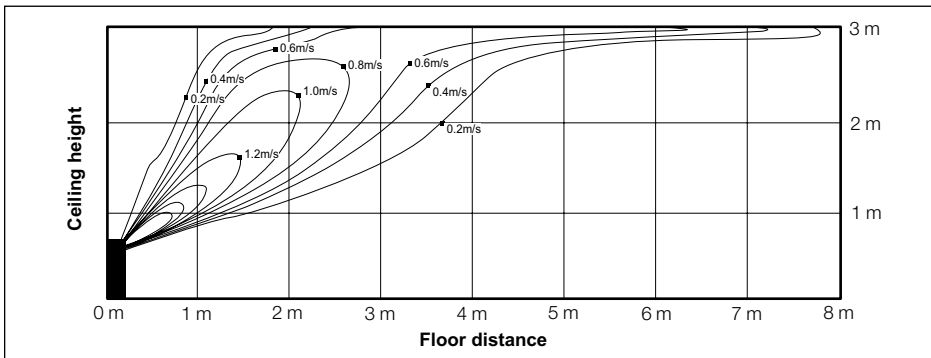
#### (2) Cooling temperature distribution

◆ Discharge angle : 36°



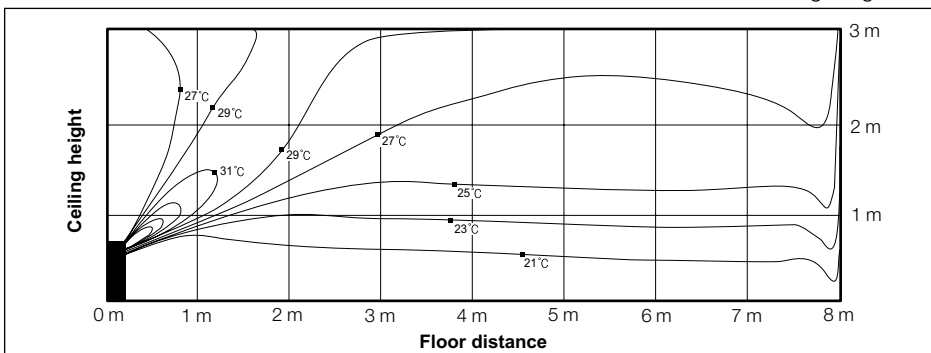
#### (3) Heating air velocity distribution

◆ Discharge angle : 54°



#### (4) Heating temperature distribution

◆ Discharge angle : 54°

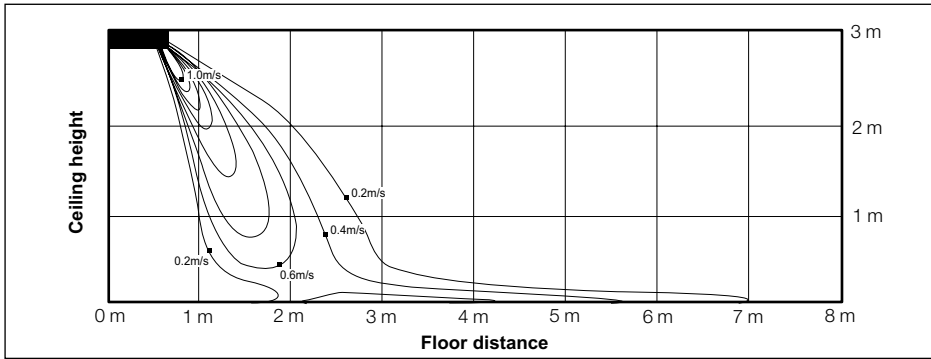


## 9-6. Temperature and air flow distribution

### 2) AM071FNCDEH\*\*\* (Ceiling installation)

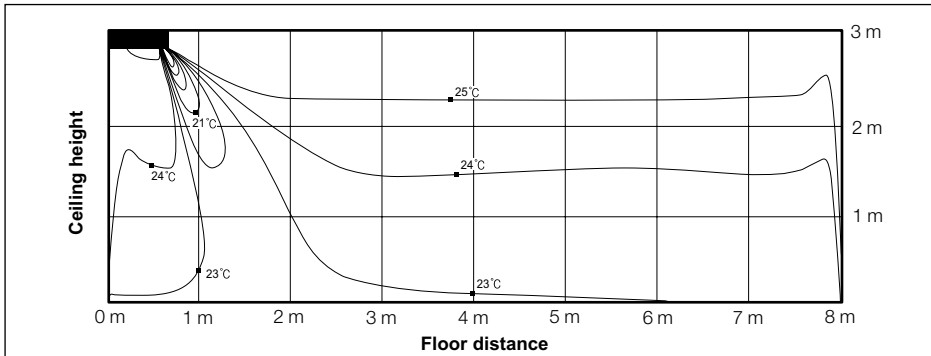
#### (1) Cooling air velocity distribution

◆ Discharge angle : 36°



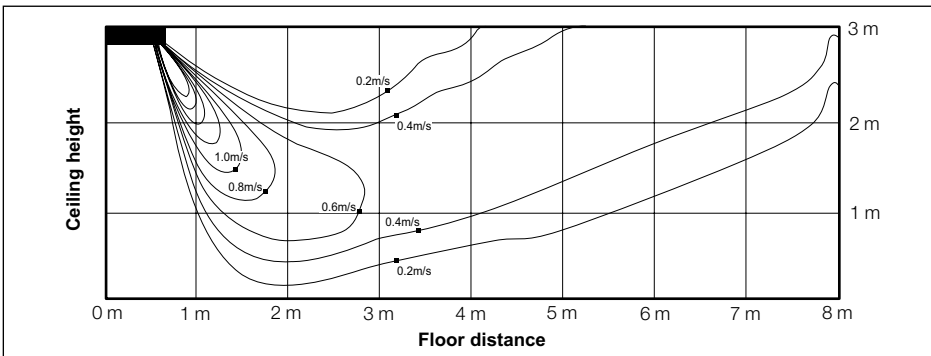
#### (2) Cooling temperature distribution

◆ Discharge angle : 36°



#### (3) Heating air velocity distribution

◆ Discharge angle : 54°



#### (4) Heating temperature distribution

◆ Discharge angle : 54°

