

CONTENTS

1. Specifications I -80

2. Capacity Tables I -81

 2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM I -81

 2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM I -82

 2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM I -83

 2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM I -84

 2.3a. Cooling capacity in combination with PUHY,PURY-P500,650YGM I -85

 2.3b. Heating capacity in combination with PUHY,PURY-P500,650YGM I -86

3. Sound Levels I -87

 3.1 Noise levels I -87

 3.2 NC curves I -87

4. External Dimension I -88

5. Electrical Wiring Diagram I -89

6. Temperature/Airflow distribution I -90

 6.1 Temperature distribution I -90

 6.2 Airflow distribution I -90

7. Options I -90

PMFY-P-VBM-E

Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PMFY-P-VBM-E	●	●	●	●									

1. Specifications

			PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E
Power source			~220-240V 50Hz / ~ 200V 60Hz			
Cooling capacity	* 1	kW	2.2	2.8	3.6	4.5
	* 1	BTU/h	7,500	9,550	12,280	15,350
	* 2	kW	2.3	2.9	3.7	4.7
	* 2	kcal/h	2,000	2,500	3,150	4,000
Heating capacity	* 1	kW	2.5	3.2	4.0	5.0
	* 1	BTU/h	8,530	10,750	13,640	17,060
	* 2	kW	2.6	3.3	4.1	5.2
	* 2	kcal/h	2,250	2,800	3,550	4,500
Power consumption	Cooling	kW	0.042	0.044		0.054
	Heating	kW	0.042	0.044		0.054
Current	Cooling	A	0.20	0.21		0.26
	Heating	A	0.20	0.21		0.26
External finish			Panel : 0.98Y8.99/0.63			
Dimension H x W x D *3		mm	230(30) x 812(1,000) x 395(470)			
Net weight *3		kg	14 (3.0)			
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type		Line flow fan X 1			
	Airflow rate * 3 (Low-Mid2-Mid1-High)	m³/min	6.5-7.2-8.0-8.7	7.3-8.0-8.6-9.3		7.7-8.7-9.7-10.7
	External static pressure	Pa	0			
Motor	Type		Single phase induction motor			
	Output	kW	0.028			
Air filter			PP Honeycomb fabric			
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7			
	Liquid (Flare)	mm	ø 6.35			
Drain pipe dimension			O.D. ø25 (VP-20)			
Noise level (Low-Mid2-Mid1-High) *4		dB(A)	27-30-33-35	32-34-36-37		33-35-37-39

Note: * 1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling : Indoor 27°CDB/19°CWB, Outdoor 35°CDB

Heating : Indoor 20°CDB, Outdoor 7°CDB/6°CWB

* 2 Cooling capacity indicates the maximum value at operation under the following condition.

Cooling : Indoor 27°CDB/19.5°CWB, Outdoor 35°CDB (WR2: water 30°C)

Heating : Indoor 21°CDB, Outdoor 7°CDB/6°CWB (WR2: water 20°C)

* 3 External dimension / net weight are shown in (panel), and airflow rate/noise level are in (low-middle2-middle1-high).

* 4 It is measured in anechoic room.

2. Capacity Tables

2.1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PMFY-P-VBM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp. °CDB	Indoor air temp.													
		21.5°CDB 15°CWB		23°CDB 16°CWB		25°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		30°CDB 22°CWB		32°CDB 24°CWB	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.8	2.8	1.8
	22.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.8	2.8	1.8
	25.0	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	27.5	2.1	1.7	2.1	1.7	2.3	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.3	1.8	2.5	1.8	2.6	1.7
	32.5	2.0	1.6	2.1	1.7	2.2	1.7	2.2	1.7	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	2.0	1.7	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7
43.0	1.8	1.6	1.9	1.6	2.0	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.4	1.7	
25 (2.8)	20.0	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	22.5	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	25.0	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.7	2.1	2.8	2.1	2.9	2.1	3.0	2.2	3.1	2.1	3.3	2.1
	32.5	2.5	2.0	2.6	2.1	2.8	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1
	37.5	2.5	1.9	2.5	2.0	2.7	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.0
	40.0	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.0	3.1	2.0
43.0	2.4	1.9	2.4	2.0	2.6	1.9	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.0	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.6	2.6
	22.5	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.1	2.5	4.4	2.5
	30.0	3.3	2.4	3.4	2.5	3.6	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.3	2.5
	32.5	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.4	3.8	2.5	4.0	2.5	4.2	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.4	3.7	2.5	3.9	2.4	4.1	2.4
	37.5	3.2	2.3	3.2	2.4	3.4	2.3	3.5	2.4	3.6	2.4	3.8	2.4	4.0	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.3	3.6	2.4	3.7	2.4	4.0	2.3
43.0	3.0	2.2	3.1	2.3	3.3	2.3	3.3	2.3	3.5	2.4	3.6	2.3	3.9	2.3	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.0	4.9	3.1	5.0	3.2	5.3	3.1	5.7	3.1
	22.5	4.3	3.0	4.4	3.1	4.7	3.0	4.9	3.1	5.0	3.2	5.3	3.1	5.7	3.1
	25.0	4.3	3.0	4.4	3.1	4.7	3.0	4.9	3.1	5.0	3.2	5.3	3.1	5.6	3.1
	27.5	4.3	3.0	4.4	3.0	4.6	3.0	4.8	3.0	4.9	3.1	5.2	3.1	5.5	3.0
	30.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.0	4.8	3.1	5.0	3.0	5.4	3.0
	32.5	4.1	2.9	4.2	3.0	4.5	2.9	4.6	2.9	4.7	3.0	5.0	3.0	5.3	2.9
	35.0	4.0	2.8	4.1	2.9	4.4	2.9	4.5	2.9	4.6	3.0	4.9	2.9	5.2	2.9
	37.5	3.9	2.8	4.1	2.9	4.3	2.8	4.4	2.8	4.5	3.0	4.8	2.9	5.0	2.8
	40.0	3.9	2.8	4.0	2.8	4.2	2.8	4.3	2.8	4.5	2.9	4.7	2.9	5.0	2.8
43.0	3.8	2.7	3.9	2.8	4.1	2.8	4.2	2.8	4.3	2.9	4.5	2.8	4.8	2.8	

2.1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PMFY-P-VBM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp. °CWB	Indoor air temp.:°CDB			
		15.0 SHC	20.0 SHC	25.0 SHC	27.0 SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.4	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.9	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
25 (2.8)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.7	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.4	3.3	3.2	2.8
	0.0	3.8	3.8	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.2	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
40 (4.5)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.7	3.6	3.5	3.4
	-5.0	4.2	4.2	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	5.0	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5

PMFY-P-VBM-E

2.2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PMFY-P-VBM-E

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°CDB 15°CWB		23°CDB 16°CWB		25°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		30°CDB 22°CWB		32°CDB 24°CWB	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.8	2.5	1.8	2.5	1.9	2.7	1.8	2.9	1.8
	22.5	2.1	1.7	2.2	1.8	2.3	1.7	2.4	1.8	2.5	1.9	2.6	1.8	2.8	1.8
	25.0	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	27.5	2.1	1.7	2.1	1.7	2.3	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.3	1.8	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	1.9	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.4	1.7	2.5	1.7
	40.0	1.9	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.4	1.8	2.3	1.7	2.4	1.7
	43.0	1.8	1.6	1.8	1.6	2.0	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.4	1.7
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.3	3.4	2.2	3.6	2.2
	22.5	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.7	2.1	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	27.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.1
	30.0	2.6	2.0	2.6	2.1	2.8	2.0	2.9	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.5	2.0	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.2	2.1
	37.5	2.5	2.0	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
	40.0	2.4	1.9	2.4	2.0	2.6	2.0	2.7	2.0	3.0	2.2	2.9	2.0	3.1	2.0
	43.0	2.4	1.9	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.0
32 (3.6)	20.0	3.5	2.5	3.6	2.5	3.9	2.5	4.0	2.6	4.2	2.7	4.4	2.6	4.7	2.6
	22.5	3.5	2.5	3.6	2.5	3.8	2.5	4.0	2.6	4.1	2.6	4.3	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.5	3.9	2.6	4.2	2.5	4.4	2.5
	30.0	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.1	2.5	4.3	2.5
	32.5	3.3	2.4	3.3	2.4	3.5	2.4	3.7	2.4	3.8	2.5	4.0	2.5	4.2	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.3	3.6	2.4	3.7	2.5	3.9	2.4	4.2	2.4
	37.5	3.2	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.9	2.4	4.1	2.4
	40.0	3.1	2.3	3.1	2.3	3.3	2.3	3.4	2.3	3.9	2.6	3.8	2.4	4.0	2.3
	43.0	3.0	2.2	3.0	2.3	3.2	2.2	3.3	2.3	3.4	2.4	3.7	2.3	3.9	2.3
40 (4.5)	20.0	4.4	3.0	4.5	3.1	4.9	3.1	5.0	3.1	5.2	3.3	5.5	3.2	5.9	3.2
	22.5	4.3	3.0	4.5	3.1	4.8	3.1	5.0	3.1	5.1	3.2	5.4	3.2	5.7	3.1
	25.0	4.3	3.0	4.4	3.1	4.7	3.0	4.9	3.1	5.0	3.2	5.3	3.1	5.6	3.1
	27.5	4.2	2.9	4.3	3.0	4.6	3.0	4.8	3.0	4.9	3.1	5.2	3.1	5.5	3.0
	30.0	4.1	2.9	4.2	3.0	4.5	2.9	4.7	3.0	4.8	3.1	5.1	3.1	5.4	3.0
	32.5	4.1	2.9	4.2	2.9	4.4	2.9	4.6	2.9	4.7	3.0	5.0	3.0	5.3	2.9
	35.0	4.0	2.8	4.1	2.9	4.3	2.8	4.5	2.9	4.6	3.0	4.9	3.0	5.2	2.9
	37.5	4.0	2.8	4.0	2.8	4.3	2.8	4.4	2.8	4.5	3.0	4.8	2.9	5.1	2.9
	40.0	3.9	2.8	3.9	2.8	4.2	2.8	4.3	2.8	4.9	3.1	4.7	2.9	5.0	2.8
	43.0	3.8	2.7	3.8	2.7	4.1	2.7	4.2	2.8	4.3	2.9	4.6	2.8	4.8	2.8

2.2b. Heating capacity in combination with PUHY,PUY,PURY-P300,350,400YGM

PMFY-P-VBM-E

SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp. °CWB	Indoor air temp.:°CDB			
		15.0 SHC	20.0 SHC	25.0 SHC	27.0 SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.3	1.9	1.6
	2.5	2.4	2.4	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.7	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
15.5	2.9	2.5	1.9	1.6	
25 (2.8)	-20.0	1.7	1.6	1.6	1.5
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.6	2.4	2.0
	0.0	2.9	2.9	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
15.5	3.7	3.2	2.4	2.0	
32 (3.6)	-20.0	2.1	2.0	2.0	1.9
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.6	3.0	2.6
	2.5	3.8	3.8	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
15.5	4.6	4.0	3.0	2.6	
40 (4.5)	-20.0	2.6	2.5	2.5	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	4.0	3.8	3.2
	0.0	4.5	4.5	3.8	3.2
	2.5	4.8	4.7	3.8	3.2
	6.0	5.1	5.0	3.8	3.2
	7.5	5.3	5.0	3.8	3.2
	10.0	5.5	5.0	3.8	3.2
	12.5	5.8	5.0	3.8	3.2
15.5	5.8	5.0	3.8	3.2	

PMFY-P-VBM-E

2.3a. Cooling capacity in combination with PUHY,PURY-P500,650YGM

CA :Capacity(kW)
SHC:Sensible Heat Capacity(kW)

PMFY-P-VBM-E

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°CDB 15°CWB		23°CDB 16°CWB		25°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		30°CDB 22°CWB		32°CDB 24°CWB	
		°CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
20 (2.2)	20.0	2.1	1.7	2.1	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.8	2.8	1.8
	22.5	2.1	1.7	2.1	1.7	2.3	1.7	2.3	1.7	2.4	1.8	2.6	1.8	2.7	1.8
	25.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.6	1.8	2.7	1.8
	27.5	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.6	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.7	2.4	1.8	2.5	1.8	2.7	1.8
	32.5	2.0	1.6	2.0	1.7	2.2	1.7	2.2	1.7	2.3	1.8	2.5	1.8	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.5	1.8	2.6	1.7
	37.5	1.9	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.1	1.7	2.2	1.8	2.4	1.7	2.6	1.7
43.0	1.9	1.6	1.9	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.4	1.7	2.6	1.7	
25 (2.8)	20.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.2
	22.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.1	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.6	2.0	2.7	2.1	2.9	2.1	2.9	2.1	3.1	2.2	3.2	2.2	3.5	2.1
	27.5	2.6	2.0	2.6	2.1	2.8	2.1	2.9	2.1	3.0	2.2	3.2	2.2	3.4	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.2	3.2	2.1	3.4	2.1
	35.0	2.5	2.0	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.5	2.0	2.5	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.1	2.1	3.3	2.1
	40.0	2.4	1.9	2.5	2.0	2.7	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.3	2.1
43.0	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.1	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	22.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.5	4.0	2.6	4.2	2.6	4.5	2.5
	25.0	3.3	2.4	3.4	2.5	3.7	2.4	3.8	2.5	3.9	2.6	4.2	2.5	4.4	2.5
	27.5	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.6	4.1	2.5	4.3	2.5
	30.0	3.3	2.4	3.3	2.4	3.6	2.4	3.7	2.4	3.9	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.4	3.8	2.5	4.1	2.5	4.3	2.5
	35.0	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.4	3.7	2.5	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.4	3.5	2.3	3.5	2.4	3.7	2.5	4.0	2.5	4.2	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.3	3.7	2.5	4.0	2.5	4.2	2.4
43.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.3	3.6	2.4	3.9	2.4	4.2	2.4	
40 (4.5)	20.0	4.3	3.0	4.4	3.0	4.7	3.0	4.8	3.0	5.0	3.2	5.3	3.1	5.7	3.1
	22.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.0	5.0	3.1	5.3	3.1	5.6	3.1
	25.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.0	4.9	3.1	5.2	3.1	5.6	3.0
	27.5	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.0	4.9	3.1	5.2	3.1	5.4	3.0
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.6	3.0	4.8	3.1	5.1	3.1	5.4	3.0
	32.5	4.1	2.9	4.1	2.9	4.4	2.9	4.5	2.9	4.8	3.1	5.1	3.0	5.4	3.0
	35.0	4.0	2.8	4.1	2.9	4.4	2.9	4.5	2.9	4.7	3.0	5.0	3.0	5.4	3.0
	37.5	4.0	2.8	4.0	2.9	4.3	2.8	4.4	2.9	4.7	3.0	5.0	3.0	5.3	3.0
	40.0	3.9	2.8	4.0	2.8	4.3	2.8	4.4	2.8	4.6	3.0	5.0	3.0	5.3	2.9
43.0	3.9	2.8	3.9	2.8	4.2	2.8	4.3	2.8	4.5	3.0	4.9	2.9	5.2	2.9	

2.3b. Heating capacity in combination with PUHY,PURY-P500,650YGM

PMFY-P-VBM-E

SHC:Sensible Heat Capacity(kW)

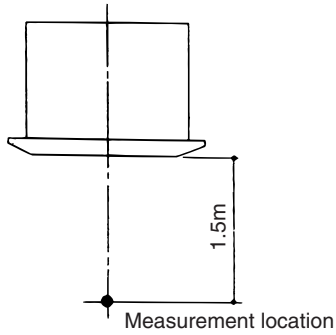
Unit size (Rated kW)	Outdoor air temp. °CWB	Indoor air temp.:°CDB			
		15.0 SHC	20.0 SHC	25.0 SHC	27.0 SHC
20 (2.2)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.0	1.9	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
25 (2.8)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	1.9	1.9	1.9
	-10.0	2.3	2.2	2.2	2.1
	-5.0	2.6	2.6	2.5	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.6	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
32 (3.6)	-20.0	2.1	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
40 (4.5)	-20.0	2.7	2.6	2.6	2.5
	-15.0	3.1	3.0	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.9	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.8	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.6	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5

PMFY-P-VBM-E

3. Sound Levels

3.1 Noise levels

Cassette ceiling (VBM-E series)

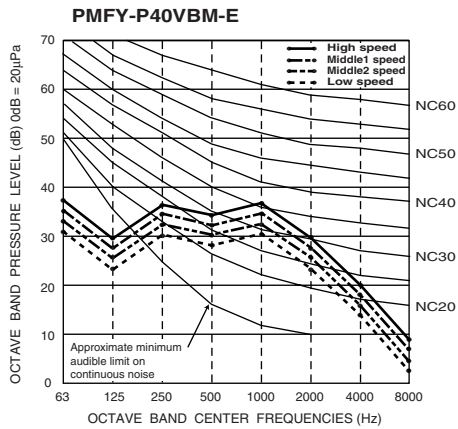
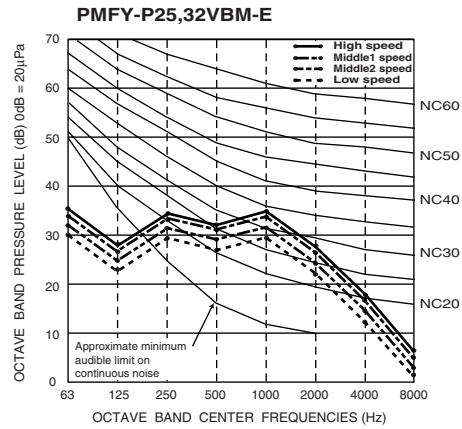
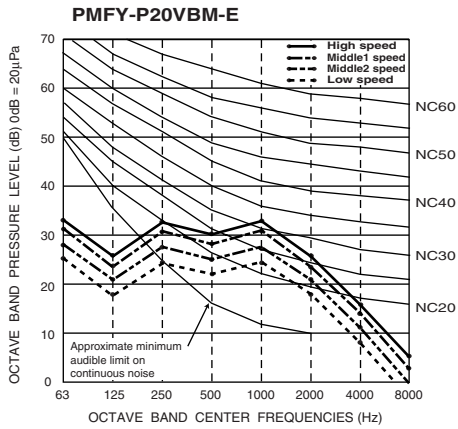


Noise level at anechoic room
(Low-Middle2-Middle1-High)

Unit : dB(A)

Model	Noise level (A weighted)
PMFY-P20VBM-E	27-30-33-35
PMFY-P25VBM-E PMFY-P32VBM-E	32-34-36-37
PMFY-P40VBM-E	33-35-37-39

3.2 NC curves

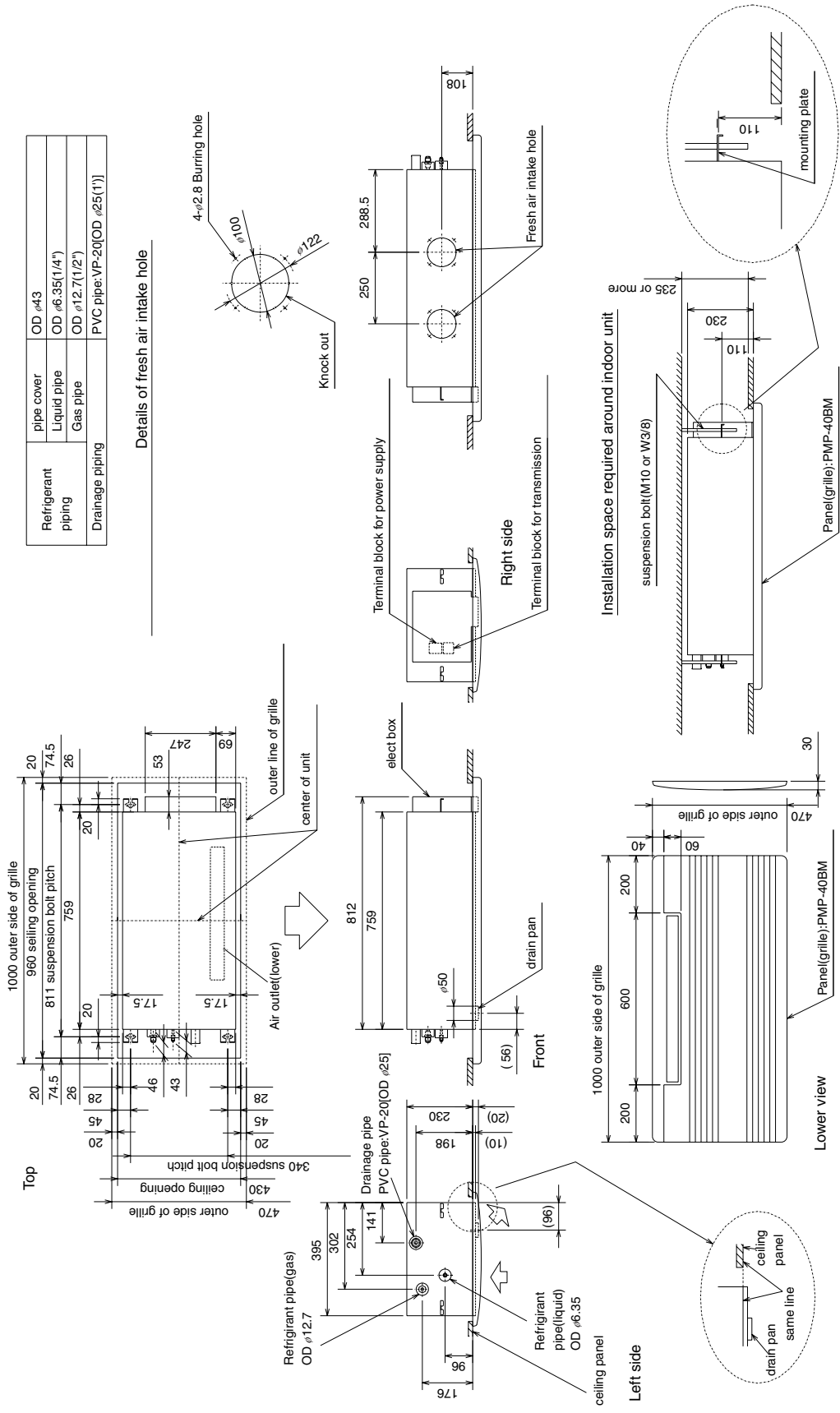


PMFY-P-VBM-E

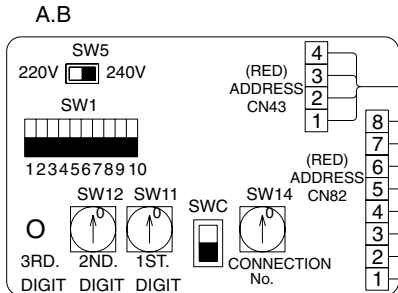
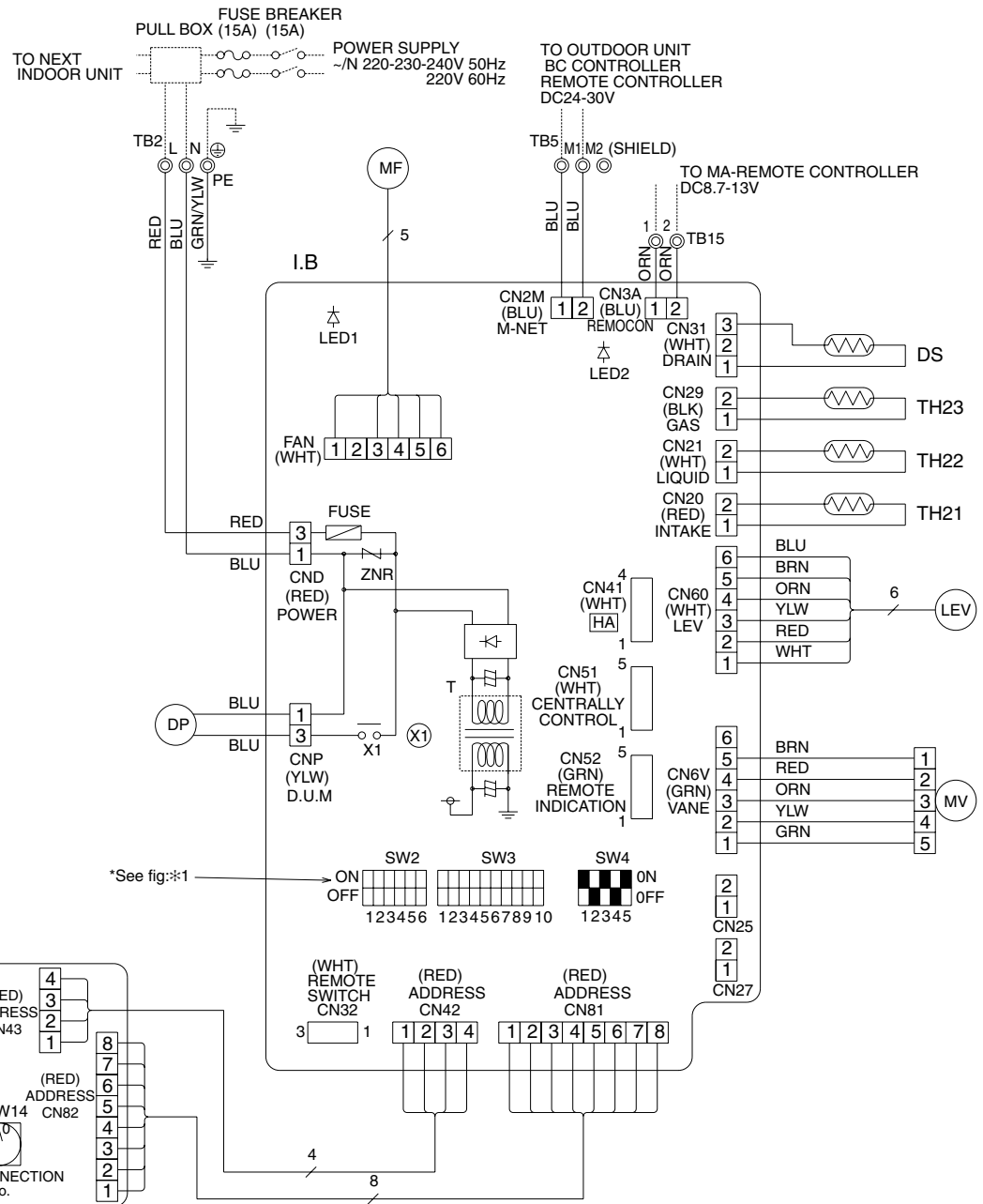
4. External Dimension

PMFY-P20,25,32,40VBM-E

Unit : mm



5. Electrical Wiring Diagram



<SYMBOL EXPLANATION>

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	MF	FAN MOTOR
CN25	HUMIDIFIER	MV	VANE MOTOR
CN27	DAMPER	DP	DRAIN WATER LIFTING-UP MACH.
CN32	CONNECTOR	DS	DRAIN SENSOR
CN41	CONNECTOR	TB2	POWER SUPPLY
CN51	CONNECTOR	TB5	TERMINAL BLOCK
CN52	CONNECTOR	TB15	MA-REMOTE CONTROLLER
SW2	SWITCH	TH21	ROOM TEMPERATURE DETECTION (0°C/15kΩ, 25°C/5.4kΩ)
SW3	SWITCH	TH22	PIPE TEMPERATURE DETECTION/LIQUID (0°C/15kΩ, 25°C/5.4kΩ)
SW4	SWITCH	TH23	PIPE TEMPERATURE DETECTION/GAS (0°C/15kΩ, 25°C/5.4kΩ)
ZNR	VARIATOR	LEV	LINEAR EXPANSION VALVE
FUSE	FUSE(6.3A/250V)		
X1	AUX.RELAY		
T	TRANSFORMER		
LED1	POWER SUPPLY(I.B)		
LED2	POWER SUPPLY(I.B)		
A.B	CIRCUIT BOARD		
SW1	SWITCH		
SW5	SWITCH		
SW11	SWITCH		
SW12	SWITCH		
SW14	SWITCH		

<*:1>

MODELS	SW2	SW3
P20	ON OFF 123456	ON OFF 12345678910
P25	ON OFF 123456	ON OFF 12345678910
P32	ON OFF 123456	ON OFF 12345678910
P40	ON OFF 123456	ON OFF 12345678910

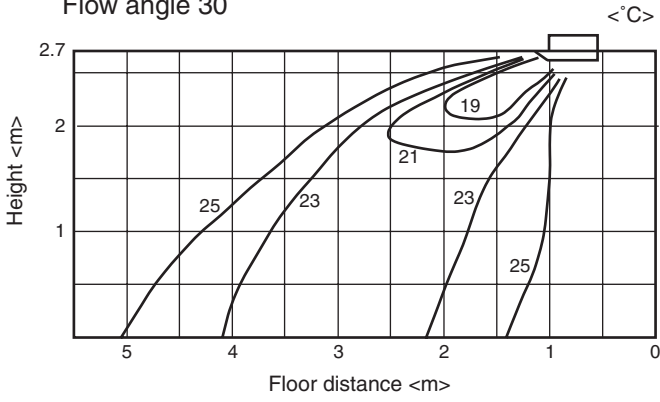
NOTES:

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. Symbol [S] of TB5 is the shield wire connection.
3. Symbols used in wiring diagram above are,
 - ⊙: terminal block, □: connector.
4. The setting of the SW2 dip switches differs in the capacity for the detail, see the table <*:1>.
5. Please set the switch SW5 according to the power supply voltage. Set SW5 to 240V side when the power supply is 230 and 240 volts. When the power supply is 220 volts, set SW5 to 220V side.

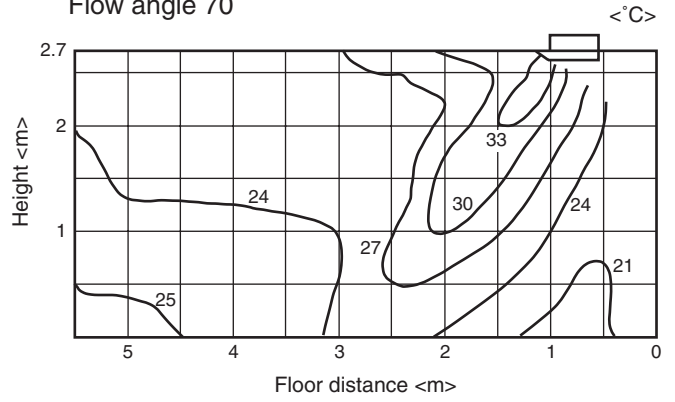
6. Temperature/Airflow distribution

6.1 Temperature distribution

<Cooling mode>
Flow angle 30°

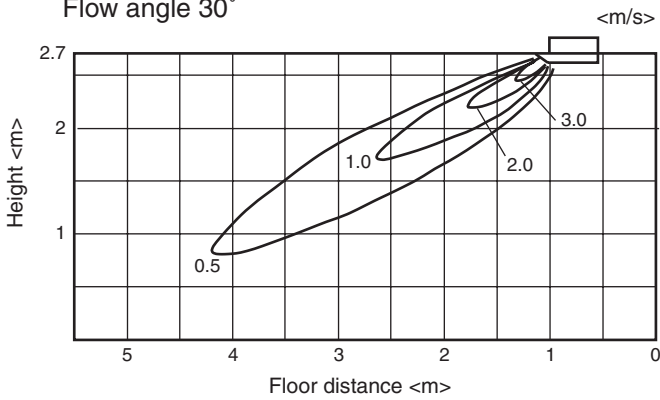


<Heating mode>
Flow angle 70°

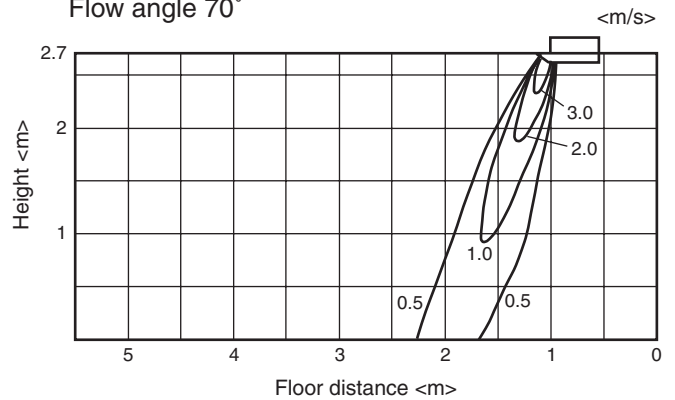


6.2 Airflow distribution

<Fan mode>
Flow angle 30°



<Fan mode>
Flow angle 70°



PMFY-P-VBM-E

7. Options

Description	Model	Applicable capacity
Decoration panel	PMP-40BM	P20/P25/P32/P40