Wall mounted

PKFY-P-VAM-E
PKFY-P-VGM-E

CONTENTS

Model Name	20	25	32	40	50	63	71	80	100	125	140	200	250
PKFY-P-VAM-E	●	●											
PKFY-P-VGM-E			●	●	●								

1. Specifications

			PKFY-P20VAM-E	PKFY-P25VAM-E	PKFY-P32VGM-E	PKFY-P40VGM-E	PKFY-P50VGM-E
Power source			~ 220-240V 50Hz ~ 220V 60Hz				
Cooling capacity	✻1	kW	2.2	2.8	3.6	4.5	5.6
	✻1	BTU/h	7,500	9,550	12,280	15,350	19,100
	✻2	kW	2.3	2.9	3.7	4.7	5.8
	✻2	kcal/h	2,000	2,500	3,150	4,000	5,000
Heating capacity	✻1	kW	2.5	3.2	4.0	5.0	6.3
	✻1	BTU/h	8,530	10,750	13,640	17,060	21,500
	✻2	kW	2.6	3.3	4.1	5.2	6.5
	✻2	kcal/h	2,250	2,800	3,550	4,500	5,600
Power consumption	Cooling	kW	0.04		0.07		
	Heating	kW	0.04		0.07		
Current	Cooling	A	0.20		0.32		
	Heating	A	0.20		0.32		
External finish(Munsel No.)			Plastic 2.60Y 8.66/0.69		Plastic <PS,ABS> white 0.70Y 8.59/0.97		
Dimension H x W x D		mm	295 x 815 x 158		340 x 990 x 235		
Net weight		kg	8.5		16		
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)				
Fan	Type		Line flow fan × 1				
	Airflow rate ✻3 (Lo-Mid2-Mid1-Hi)	m^3/min	4.9-5.2-5.6-5.9		8-9.5-10.5-11.5		9-10-11-12
	External static pressure	Pa	0				
Motor	Type		Single phase induction motor				
	Output	kW	0.017		0.030		
Air filter			PP Honeycomb (long life)				
Refrigerant pipe dimension	Gas (Flare)	mm	ø 12.7				ø 12.7 / ø 15.88 (Compatible)
	Liquid (Flare)	mm	ø 6.35				ø 6.35 / ø 9.52 (Compatible)
Drain pipe dimension			I.D. ø16 (VP-16)		I.D. ø20 (VP-20)		
Noise level (Lo-Mid2-Mid1-Hi) ✻3 ✻4		dB(A)	32-33-35-36		33-36-38-41		34-37-40-43

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 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

PKFY-P-VAM-E,VGM-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	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.6	2.6	1.6	2.8	1.6
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.4	1.6	2.6	1.6	2.7	1.5
	27.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	32.5	2.0	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.5	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.5	1.4
	40.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.3	1.4	2.4	1.4
	43.0	1.8	1.4	1.9	1.4	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.4	1.4
25 (2.8)	20.0	2.7	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	2.0
	22.5	2.7	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	2.0
	25.0	2.7	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.2	1.9	3.4	1.9
	30.0	2.6	1.8	2.7	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.1	1.9	3.3	1.9
	32.5	2.5	1.8	2.6	1.9	2.8	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.0	1.9	3.2	1.8
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.7	1.8	2.8	1.9	3.0	1.8	3.1	1.8
	40.0	2.4	1.7	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.8	2.9	1.8	3.1	1.8
	43.0	2.4	1.7	2.4	1.8	2.6	1.7	2.6	1.7	2.7	1.8	2.8	1.8	3.0	1.7
32 (3.6)	20.0	3.4	2.7	3.5	2.8	3.8	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.6	2.8
	22.5	3.4	2.7	3.5	2.8	3.8	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.6	2.8
	25.0	3.4	2.7	3.5	2.8	3.8	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	27.5	3.4	2.7	3.5	2.7	3.7	2.7	3.8	2.7	3.9	2.9	4.1	2.8	4.4	2.8
	30.0	3.3	2.6	3.4	2.7	3.6	2.7	3.7	2.7	3.8	2.8	4.0	2.8	4.3	2.7
	32.5	3.3	2.6	3.4	2.7	3.6	2.6	3.7	2.7	3.8	2.8	4.0	2.7	4.2	2.7
	35.0	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.8	3.9	2.7	4.1	2.7
	37.5	3.2	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.6
	40.0	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.6	2.7	3.7	2.7	4.0	2.6
	43.0	3.0	2.5	3.1	2.6	3.3	2.5	3.3	2.6	3.5	2.7	3.6	2.6	3.9	2.6
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.3	3.2	4.4	3.3	4.6	3.2	4.8	3.3	4.9	3.4	5.2	3.3	5.5	3.3
	30.0	4.2	3.2	4.3	3.2	4.6	3.2	4.7	3.2	4.8	3.4	5.0	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.2	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.2	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	3.9	3.0	4.1	3.1	4.3	3.1	4.4	3.1	4.5	3.2	4.8	3.2	5.0	3.1
	40.0	3.9	3.0	4.0	3.1	4.2	3.1	4.3	3.1	4.5	3.2	4.7	3.1	5.0	3.1
	43.0	3.8	3.0	3.9	3.0	4.1	3.0	4.2	3.0	4.3	3.2	4.5	3.1	4.8	3.1
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	3.9	6.2	4.1	6.6	4.0	7.1	4.0
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.0	3.9	6.2	4.1	6.6	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	3.9	6.2	4.0	6.6	4.0	6.9	3.9
	27.5	5.3	3.8	5.5	3.9	5.8	3.8	5.9	3.9	6.1	4.0	6.4	3.9	6.8	3.9
	30.0	5.2	3.7	5.3	3.8	5.7	3.8	5.8	3.8	6.0	3.9	6.3	3.9	6.7	3.8
	32.5	5.1	3.7	5.3	3.8	5.5	3.7	5.7	3.7	5.9	3.9	6.2	3.8	6.6	3.8
	35.0	5.0	3.6	5.2	3.7	5.5	3.7	5.6	3.7	5.7	3.8	6.0	3.8	6.4	3.7
	37.5	4.9	3.6	5.0	3.7	5.3	3.6	5.5	3.6	5.6	3.8	5.9	3.7	6.3	3.7
	40.0	4.8	3.5	5.0	3.6	5.3	3.6	5.4	3.6	5.5	3.7	5.8	3.7	6.2	3.6
	43.0	4.7	3.5	4.8	3.6	5.1	3.5	5.2	3.5	5.4	3.7	5.7	3.6	6.0	3.6

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

PKFY-P-VAM-E,VGM-E SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	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
50 (5.6)	-20.0	3.2	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.6	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4

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

PKFY-P-VAM-E,VGM-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	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.5	2.2	1.6	2.4	1.6	2.5	1.6	2.5	1.6	2.7	1.6	2.9	1.6
	22.5	2.1	1.5	2.2	1.6	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.4	1.6	2.6	1.6	2.8	1.5
	27.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.7	1.5
	30.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.6	1.5
	32.5	2.0	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5
	37.5	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.4	1.5	2.5	1.4
	40.0	1.9	1.4	1.9	1.4	2.0	1.4	2.1	1.4	2.4	1.6	2.3	1.5	2.4	1.4
	43.0	1.8	1.4	1.8	1.4	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.4	1.4
25 (2.8)	20.0	2.7	1.9	2.8	2.0	3.0	2.0	3.1	2.0	3.2	2.1	3.4	2.0	3.6	2.0
	22.5	2.7	1.9	2.8	1.9	3.0	1.9	3.1	2.0	3.2	2.0	3.4	2.0	3.6	2.0
	25.0	2.7	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.2	1.9	3.4	1.9
	30.0	2.6	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.8	1.8	2.9	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.2	1.8
	37.5	2.5	1.8	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	3.0	1.8	3.2	1.8
	40.0	2.4	1.7	2.4	1.8	2.6	1.8	2.7	1.8	3.0	2.0	2.9	1.8	3.1	1.8
	43.0	2.4	1.7	2.4	1.7	2.5	1.7	2.6	1.7	2.7	1.8	2.8	1.8	3.0	1.8
32 (3.6)	20.0	3.5	2.7	3.6	2.8	3.9	2.8	4.0	2.8	4.2	2.9	4.4	2.9	4.7	2.9
	22.5	3.5	2.7	3.6	2.8	3.8	2.8	4.0	2.8	4.1	2.9	4.3	2.9	4.6	2.8
	25.0	3.4	2.7	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	27.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.7	3.9	2.9	4.2	2.8	4.4	2.8
	30.0	3.3	2.6	3.4	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.3	2.7
	32.5	3.3	2.6	3.3	2.7	3.5	2.6	3.7	2.7	3.8	2.8	4.0	2.8	4.2	2.7
	35.0	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.8	3.9	2.7	4.2	2.7
	37.5	3.2	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.6	2.7	3.9	2.7	4.1	2.7
	40.0	3.1	2.5	3.1	2.6	3.3	2.5	3.4	2.6	3.9	2.8	3.8	2.7	4.0	2.6
	43.0	3.0	2.5	3.0	2.5	3.2	2.5	3.3	2.6	3.4	2.7	3.7	2.6	3.9	2.6
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.4	5.2	3.5	5.5	3.5	5.9	3.4
	22.5	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.4	5.1	3.5	5.4	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.3	4.9	3.4	5.2	3.4	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.4	3.1	4.6	3.2	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.1	4.3	3.1	4.5	3.2	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.5	3.3	4.8	3.2	5.1	3.2
	40.0	3.9	3.0	3.9	3.0	4.2	3.0	4.3	3.1	4.9	3.4	4.7	3.2	5.0	3.1
	43.0	3.8	3.0	3.8	3.0	4.1	3.0	4.2	3.0	4.3	3.2	4.6	3.1	4.8	3.1
50 (5.6)	20.0	5.4	3.8	5.6	4.0	6.0	4.0	6.3	4.0	6.5	4.2	6.9	4.1	7.3	4.0
	22.5	5.4	3.8	5.6	3.9	6.0	3.9	6.2	4.0	6.4	4.1	6.7	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	3.9	6.2	4.0	6.6	4.0	7.0	3.9
	27.5	5.2	3.7	5.4	3.8	5.7	3.8	5.9	3.9	6.1	4.0	6.5	3.9	6.9	3.9
	30.0	5.2	3.7	5.3	3.8	5.6	3.8	5.8	3.8	6.0	3.9	6.4	3.9	6.7	3.8
	32.5	5.1	3.7	5.2	3.7	5.5	3.7	5.7	3.8	5.9	3.9	6.2	3.8	6.6	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.6	5.6	3.7	5.8	3.8	6.1	3.8	6.5	3.7
	37.5	4.9	3.6	5.0	3.6	5.3	3.6	5.5	3.6	5.7	3.8	6.0	3.7	6.3	3.7
	40.0	4.8	3.5	4.8	3.6	5.2	3.5	5.3	3.6	6.1	4.0	5.9	3.7	6.2	3.6
	43.0	4.7	3.5	4.7	3.5	5.0	3.5	5.2	3.5	5.3	3.7	5.7	3.6	6.0	3.6

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

PKFY-P-VAM-E,VGM-E SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	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
50 (5.6)	-20.0	3.3	3.2	3.2	3.0
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.0	5.0	4.7	4.0
	0.0	5.7	5.7	4.7	4.0
	2.5	6.0	6.0	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.7	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0

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

PKFY-P-VAM-E,VGM-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	
	˚CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.5	2.1	1.5	2.3	1.5	2.4	1.5	2.5	1.6	2.6	1.6	2.8	1.6
	22.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.5	2.4	1.6	2.6	1.6	2.7	1.5
	25.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.6	1.6	2.7	1.5
	27.5	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.6	1.5
	30.0	2.0	1.4	2.0	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.5	2.7	1.5
	32.5	2.0	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.5	2.4	1.5	2.6	1.5
	40.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.4	1.5	2.6	1.5
	43.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.4	2.2	1.5	2.4	1.5	2.6	1.5
25 (2.8)	20.0	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	22.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.9	3.1	2.0	3.3	2.0	3.5	1.9
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	2.9	1.9	3.1	2.0	3.2	1.9	3.5	1.9
	27.5	2.6	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.2	1.9	3.4	1.9
	30.0	2.5	1.8	2.6	1.8	2.8	1.8	2.9	1.9	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.8	3.0	1.9	3.2	1.9	3.4	1.9
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	40.0	2.4	1.7	2.5	1.8	2.7	1.8	2.7	1.8	2.9	1.9	3.1	1.9	3.3	1.9
	43.0	2.4	1.7	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	3.0	1.9	3.2	1.8
32 (3.6)	20.0	3.4	2.7	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.9	4.2	2.8	4.5	2.8
	22.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.7	4.0	2.9	4.2	2.8	4.5	2.8
	25.0	3.3	2.6	3.4	2.7	3.7	2.7	3.8	2.7	3.9	2.9	4.2	2.8	4.4	2.8
	27.5	3.3	2.6	3.4	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.3	2.7
	30.0	3.3	2.6	3.3	2.7	3.6	2.7	3.7	2.7	3.9	2.8	4.1	2.8	4.4	2.8
	32.5	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.8	4.1	2.8	4.3	2.7
	35.0	3.2	2.6	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.8	4.0	2.8	4.3	2.7
	37.5	3.2	2.5	3.2	2.6	3.5	2.6	3.5	2.6	3.7	2.8	4.0	2.7	4.2	2.7
	40.0	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.7	2.8	4.0	2.7	4.2	2.7
	43.0	3.1	2.5	3.2	2.6	3.4	2.6	3.5	2.6	3.6	2.7	3.9	2.7	4.2	2.7
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.3	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.2	3.2	4.3	3.3	4.6	3.2	4.8	3.3	5.0	3.4	5.3	3.4	5.6	3.3
	25.0	4.2	3.2	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.4	5.2	3.4	5.6	3.3
	27.5	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.2	4.9	3.4	5.2	3.3	5.4	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.2	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.1	3.2	4.4	3.1	4.5	3.2	4.8	3.3	5.1	3.3	5.4	3.3
	35.0	4.0	3.1	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.3	5.0	3.3	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.7	3.3	5.0	3.3	5.3	3.2
	40.0	3.9	3.0	4.0	3.1	4.3	3.1	4.4	3.1	4.6	3.3	5.0	3.3	5.3	3.2
	43.0	3.9	3.0	3.9	3.1	4.2	3.1	4.3	3.1	4.5	3.3	4.9	3.2	5.2	3.2
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.8	6.0	3.9	6.2	4.1	6.6	4.0	7.1	3.9
	22.5	5.3	3.8	5.4	3.8	5.8	3.8	5.9	3.9	6.2	4.0	6.6	4.0	7.0	3.9
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	3.8	6.1	4.0	6.5	3.9	6.9	3.9
	27.5	5.2	3.7	5.3	3.8	5.7	3.8	5.8	3.8	6.0	4.0	6.4	3.9	6.7	3.8
	30.0	5.1	3.7	5.2	3.7	5.6	3.7	5.8	3.8	6.0	3.9	6.4	3.9	6.8	3.8
	32.5	5.0	3.6	5.2	3.7	5.5	3.7	5.7	3.7	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	5.0	3.6	5.1	3.7	5.5	3.7	5.6	3.7	5.8	3.9	6.3	3.9	6.7	3.8
	37.5	4.9	3.6	5.0	3.7	5.4	3.6	5.5	3.7	5.8	3.9	6.2	3.8	6.6	3.8
	40.0	4.8	3.5	5.0	3.6	5.3	3.6	5.4	3.6	5.7	3.8	6.2	3.8	6.6	3.8
	43.0	4.8	3.5	4.9	3.6	5.3	3.6	5.4	3.6	5.7	3.8	6.0	3.8	6.5	3.7

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

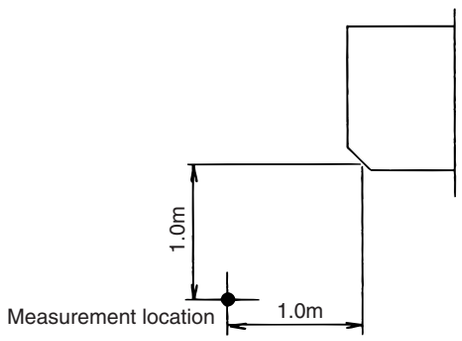
PKFY-P-VAM-E,VGM-E SHC:Sensible Heat Capacity(kW)

Unit size (Rated kW)	Outdoor air temp.	Indoor air temp.:˚CDB			
		15.0	20.0	25.0	27.0
	˚CWB	SHC	SHC	SHC	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
50 (5.6)	-20.0	3.3	3.2	3.2	3.2
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.2	5.0	4.9	4.4
	0.0	5.8	5.7	5.0	4.4
	2.5	6.0	6.0	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.7	6.3	5.0	4.4
	10.0	7.0	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.3	6.3	5.0	4.4

3. Sound Levels

3.1 Noise levels

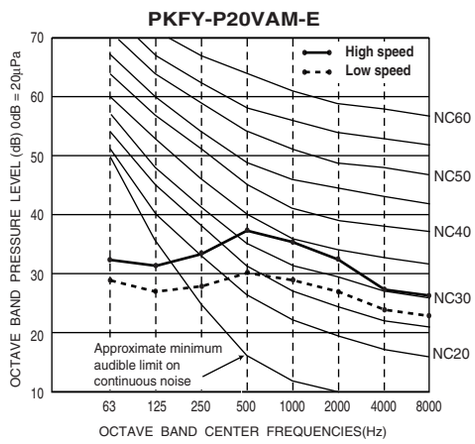
Wall mounted

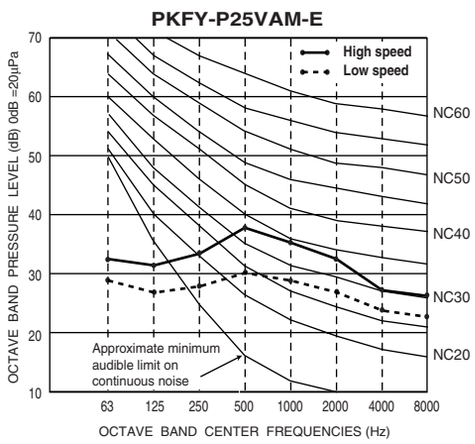


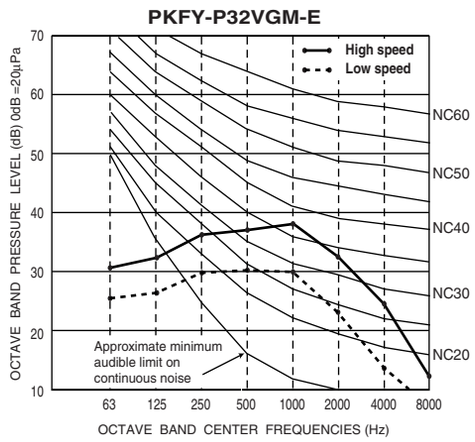
Noise level at anechoic room
(Low-Middle2-Middle1-High) Unit : dB(A)

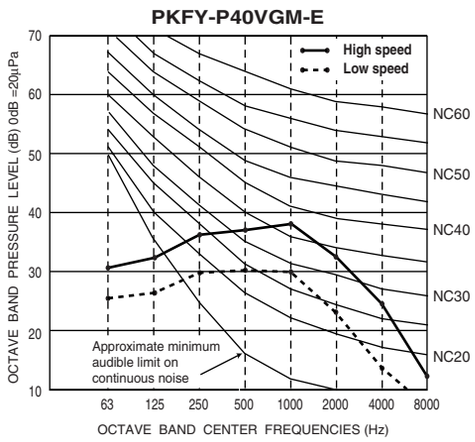
Model	Noise level (A weighted)
PKFY-P20VAM-E PKFY-P25VAM-E	32-33-35-36
PKFY-P32VGM-E PKFY-P40VGM-E	33-36-38-41
PKFY-P50VGM-E	34-37-40-43

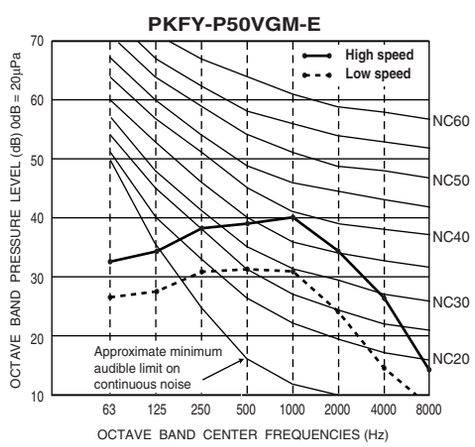
3.2 NC curves







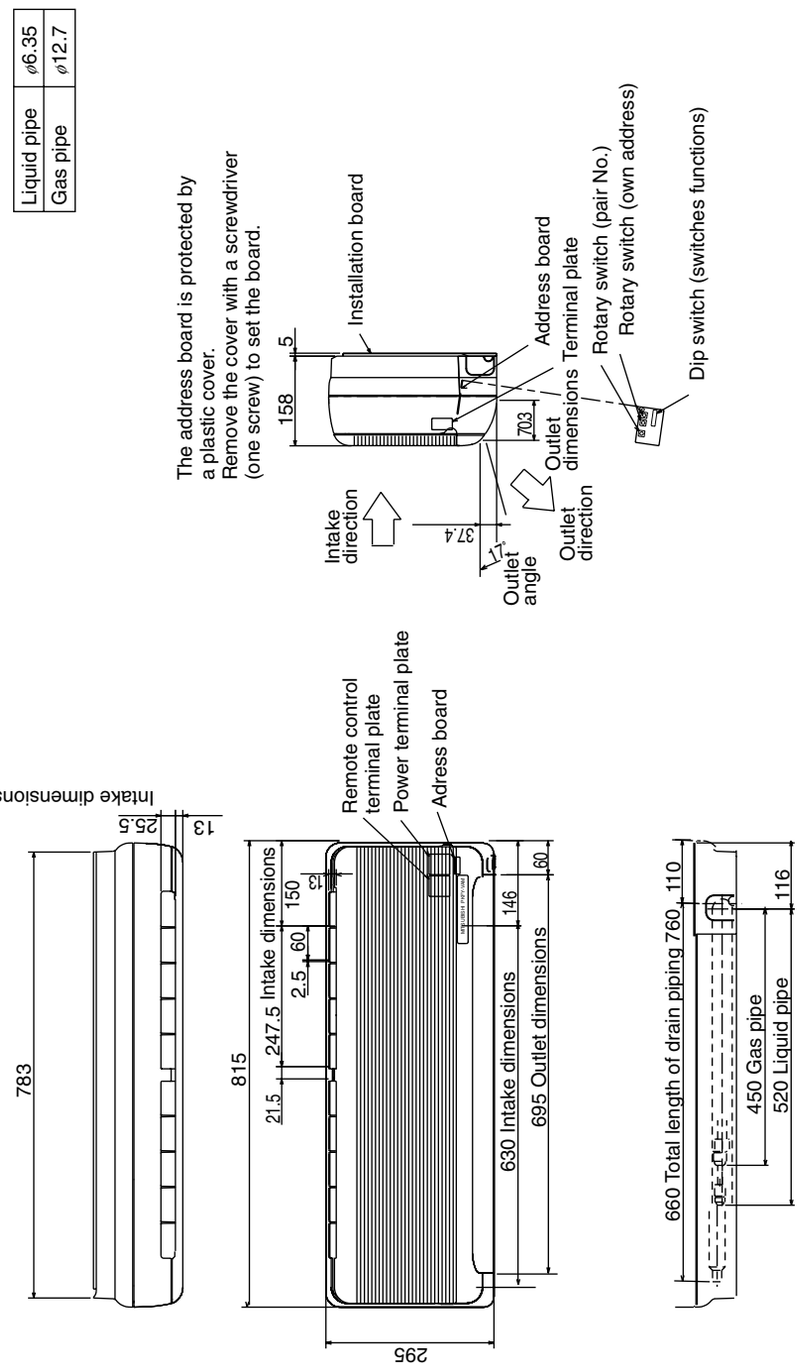




4. External Dimensions

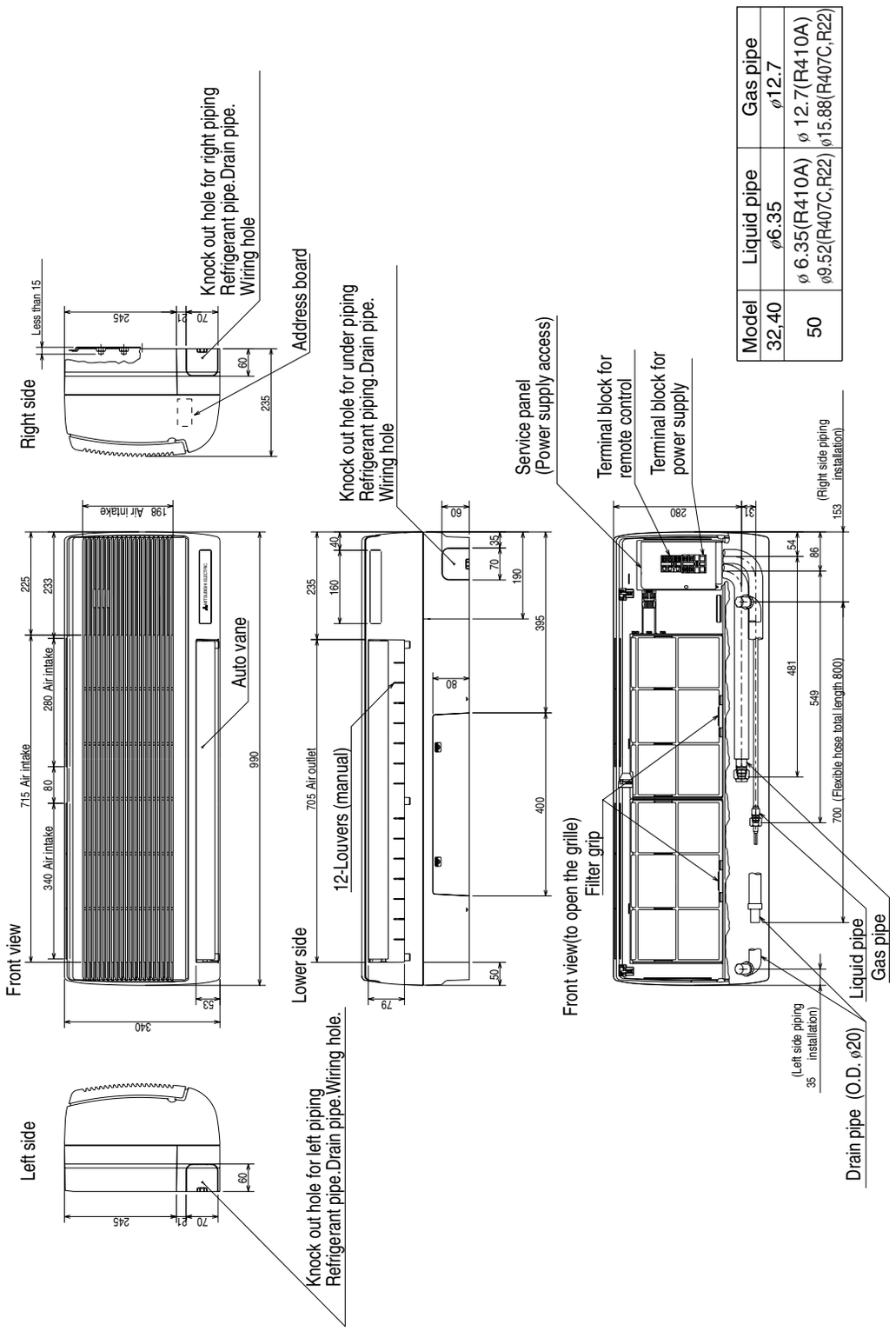
PKFY-P20, 25VAM-E

Unit : mm



PKFY-P32,40,50VGM-E

Unit : mm



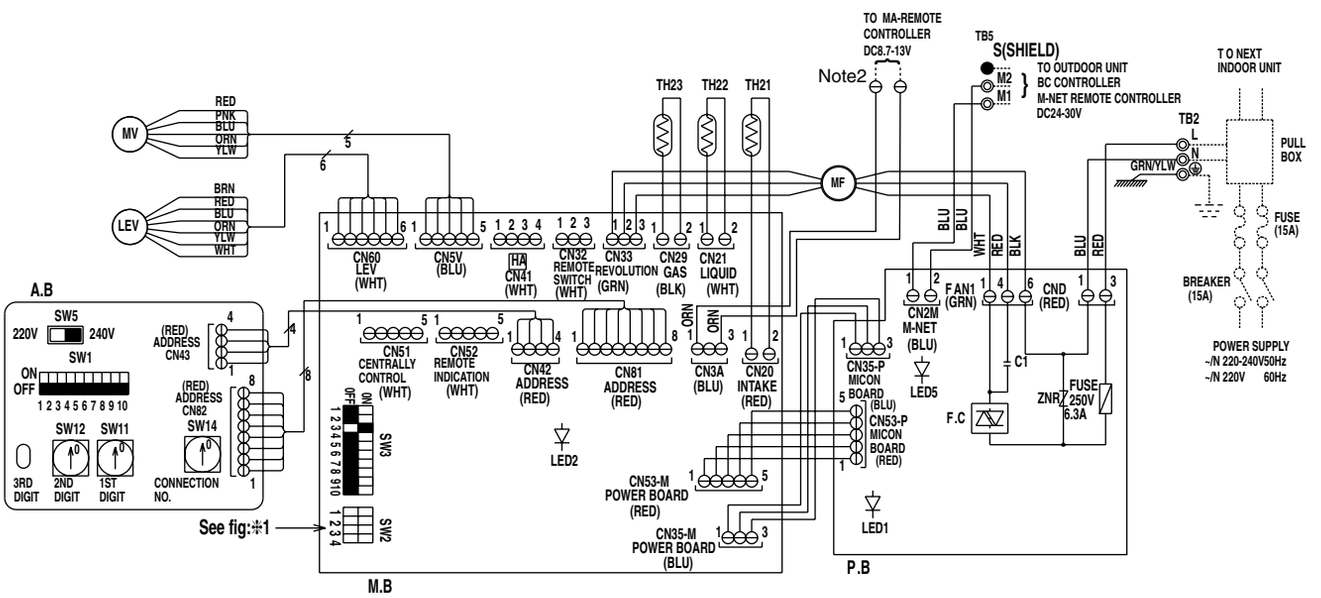
Model	Liquid pipe	Gas pipe
32,40	ø6.35	ø12.7
50	ø 6.35(R410A) ø9.52(R407C,R22)	ø 12.7(R410A) ø15.88(R407C,R22)

5. Electrical Wiring Diagrams

5.1 PKFY-P-VAM-E

<SYMBOL EXPLANATION>

Symbol	Name		Symbol	Name		Symbol	Name	
M.B	Indoor controller board		TH23	Thermistor	Pipe temp. detection/Gas (0˚C / 15kΩ, 25˚C / 5.4kΩ)	TB2	Terminal block	Power supply
CN32	Connector	Remote switch				TB5		ME Remote controller
CN41		HA terminal - A	P.B	Indoor power board		A.B	Circuit board	Address
CN51		Centrally control	ZNR	Varistor		SW1 <A.B>	Switch	Mode selection
CN52		Remote indication	FUSE	Fuse (6.3A)		SW5 <A.B>		Voltage selection
SW2	Switch	Capacity code	F.C	Fan phase control		SW11 <A.B>		Address setting 1st digit
SW3		Mode selection	MF	Fan motor		SW12 <A.B>		Address setting 2nd digit
TH21	Thermistor	Room temp. detection (0˚C / 15kΩ, 25˚C / 5.4kΩ)	C1	Capacity (fan motor)		SW14 <A.B>		Connection No.
			MV	Vane motor				
TH22		Pipe temp. detection/liquid (0˚C / 15kΩ, 25˚C / 5.4kΩ)	LEV	Linear expansion valve				



Note

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of connecting MA-Remote controller, please connect MA-Remote controller to the connector. (Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to the wire.(BLU, two wire) <M1, M2>of CN2M (Transmission line is non-polar.)
4. Symbols used in wiring diagram above are, ◎ : terminal block, ⊖: connector, ● : direct wire connection.
5. The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig:※1.
6. Please set the switch SW5 accordng to the power supply voltage.
   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.

Led on indoor board for sevice

Mark	Meaning	Function
LED1	Main power supply	Main power supply (indoor unit:220-240V) power on ⇒ lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

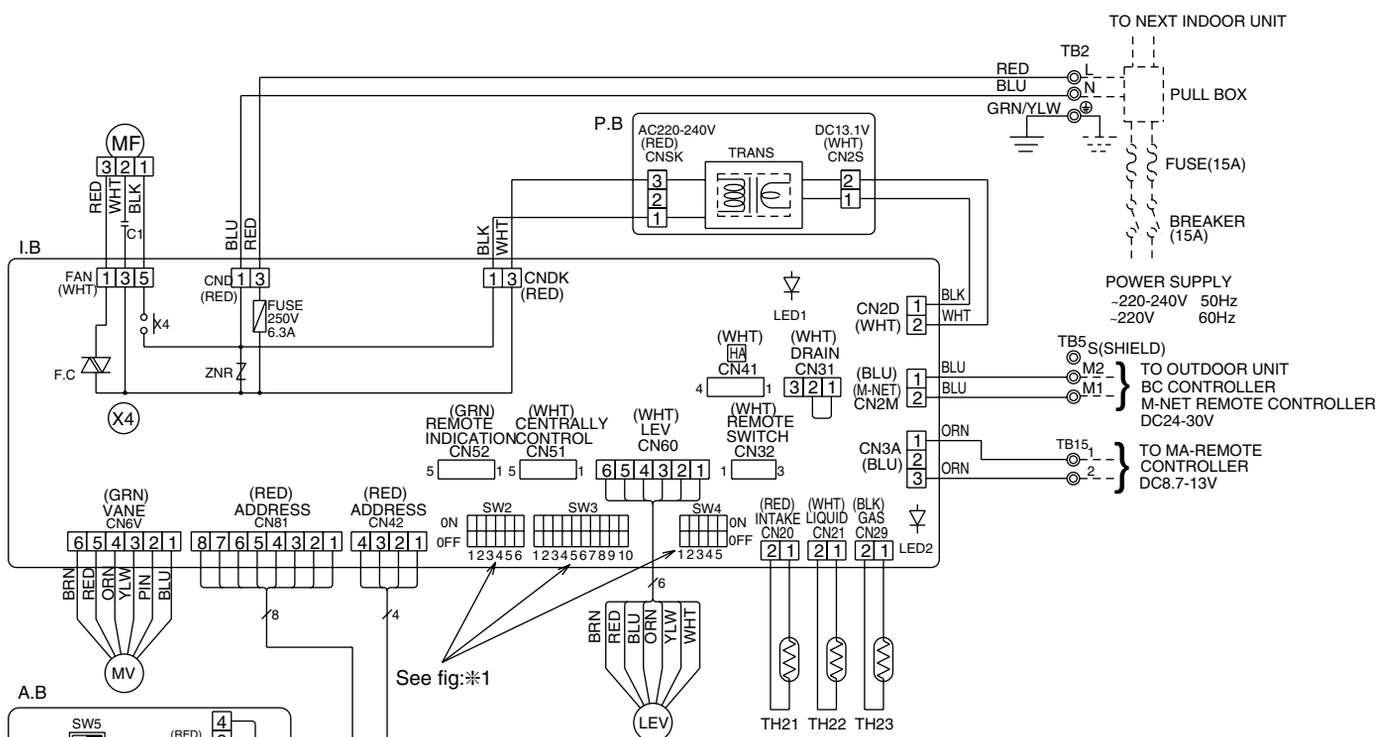
<※ 1>

MODELS	SW2	MODELS	SW2
P20	ON OFF 1 2 3 4	P25	ON OFF 1 2 3 4

5.2 PKFY-P-VGM-E

<SYMBOL EXPLANATION>

Symbol	Name		Symbol	Name		Symbol	Name	
I.B	Indoor controller board		TH21	Thermistor	Room temp. detection (0˚C/15kΩ,25˚C/5.4kΩ)	A.B	Circuit board	
CN32	Connector	Remote switch				SW1	Switch	Mode selection
CN41		HA terminal-A	TH22		Pipe temp. detection/liquid (0˚C/15kΩ,25˚C/5.4kΩ)	SW5		Voltage selection
CN51		Centrally control				SW11		Address setting 1st digit
CN52		Remote indication	TH23		Pipe temp. detection/Gas (0˚C/15kΩ,25˚C/5.4kΩ)	SW12		Address setting 2nd digit
SW2	Switch	Capacity code				SW14		Connection No.
SW3		Mode selection	MF	Fan motor (with inner thermostat)		SWC		Option selector
SW4		Model selection	C1	Capacitor (fan motor)		P.B	Indoor power board	
ZNR	Varistor		MV	Vane motor				
X4	Aux.Relay (Fan motor)		TB2	Terminal block	Power supply			
FUSE	Fuse (6.3A)		TB5		Transmission			
F.C	Fan phase control		TB15		MA-Remote controller			
			LEV	Linear expansion valve				



< ※1 >

Models	SW2	SW3	SW4
P32	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10	ON OFF 1 2 3 4 5
P40	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10	ON OFF 1 2 3 4 5
P50	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10	ON OFF 1 2 3 4 5

NOTE

1.At servicing for outdoor unit,always follow the wiring diagram of outdoor unit.
2.In case of using MA-Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
3.In case of using M-NET, please connect to TB5.(Transmission line is non-polar.)
4.Symbol[S] of TB5 is the shield wire connection.
5.Symbols used in wiring diagram above are,
◎:Terminal block, □□□:Connector.
6.The setting of the SW2 dip switches differs in the capacity. For the detail,refer to the fig: ※1.
7.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.

Led on indoor board for sevice

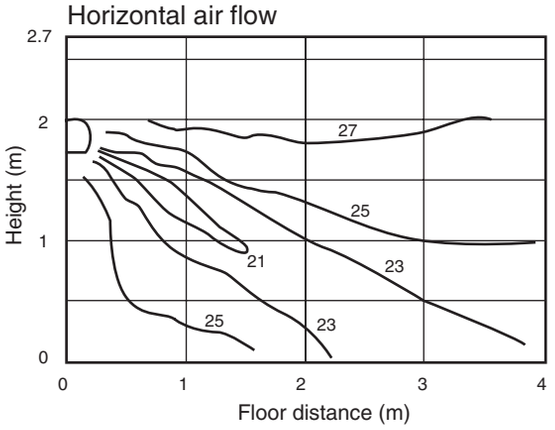
Mark	Meaning	Function
LED1	Main power supply	Main power supply (indoor unit:220-240V) power on ⇒ lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

6. Temperature/Airflow distribution

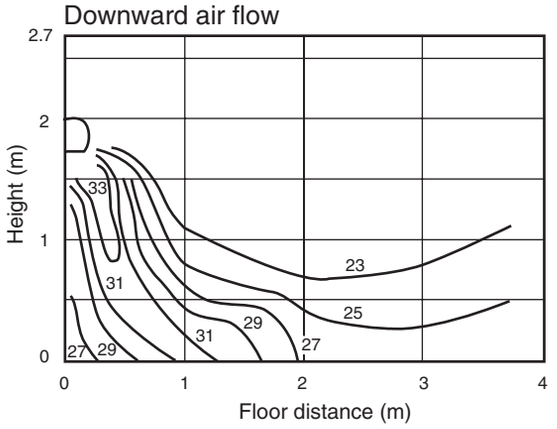
6.1 PKFY-P-VAM-E

6.1.1 Temperature distribution

<Cooling mode>
Horizontal air flow

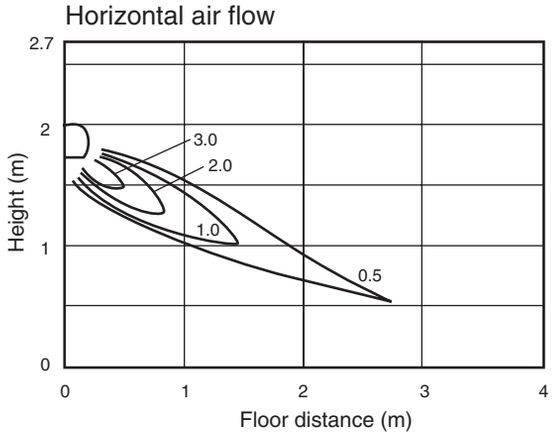


<Heating mode>
Downward air flow

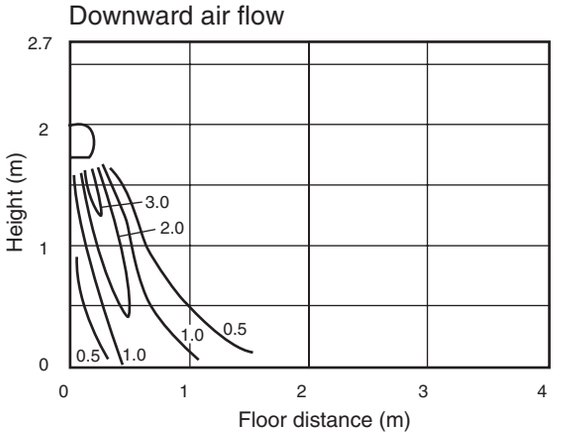


6.1.2 Airflow distribution

<Fan mode>
Horizontal air flow



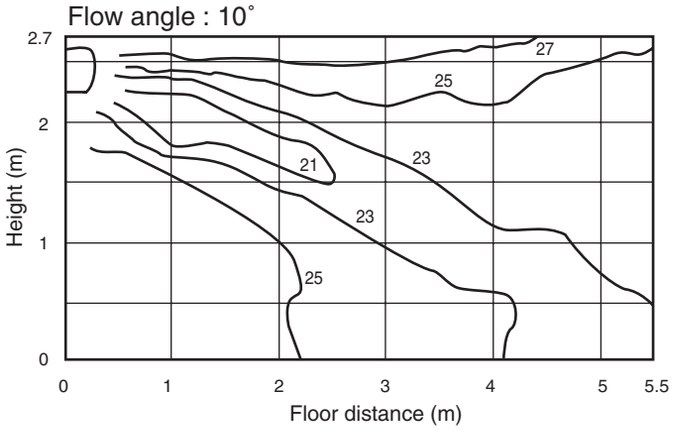
<Fan mode>
Downward air flow



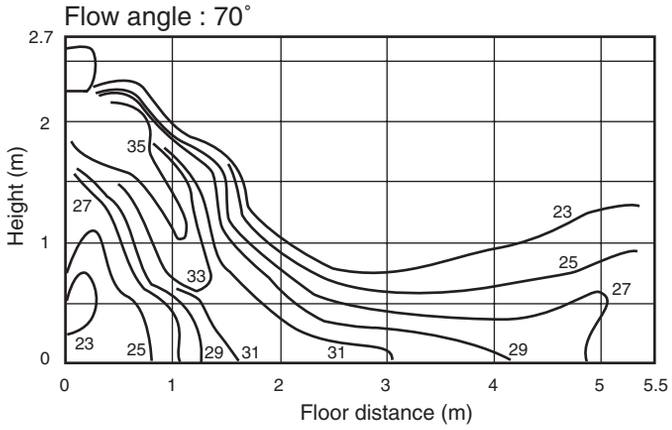
6.2 PKFY-P-VGM-E

6.2.1 Temperature distribution

<Cooling mode>
Flow angle : 10˚

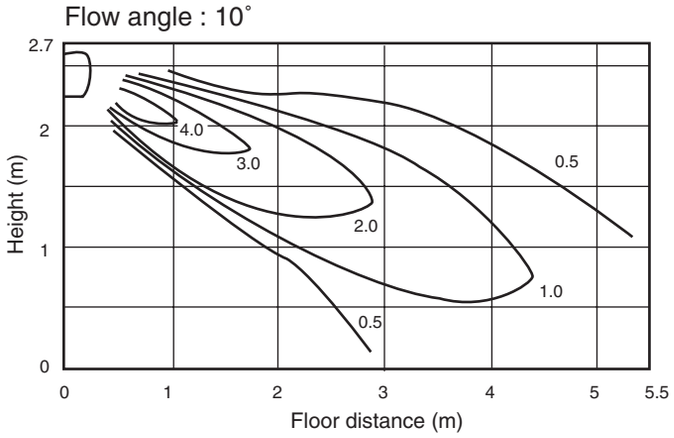


<Heating mode>
Flow angle : 70˚



6.2.2 Airflow distribution

<Fan mode>
Flow angle : 10˚



<Fan mode>
Flow angle : 70˚