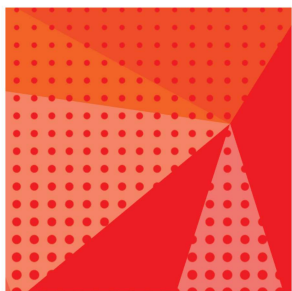


AIR CONDITIONING SYSTEMS

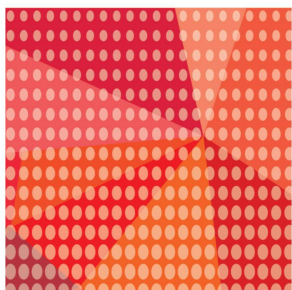
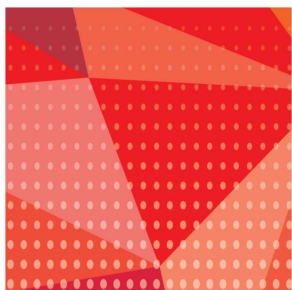
CITY MULTI



DATA BOOK

MODEL

PEFY-MS-VMA(L)-A1



PEFY-MS-VMA(L)-A1

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1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS20VMA-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		2.2
(Nominal)	*1 BTU/h		7,500
	*2 Power input kW		0.039
	*2 Current input A	(220-230-240 V)	0.34-0.33-0.32
Heating capacity	*3 kW		2.5
(Nominal)	*3 BTU/h		8,500
	*2 Power input kW		0.037
	*2 Current input A	(220-230-240 V)	0.34-0.33-0.32
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 700 x 732
	in.		9-7/8 x 27-9/16 x 28-7/8
Net weight	kg (lbs)		21.0 (46.5)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 1
	*4 External static press. Pa		35 - <50> - <70> - <100> - <150>
	mmH ₂ O		3.6 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.085
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		6.0 - 7.0 - 8.5 - 10.0
	L/s		100 - 116 - 142 - 166
	cfm		212 - 247 - 300 - 353
	Heating m ³ /min		6.0 - 7.0 - 8.5 - 10.0
	L/s		100 - 116 - 142 - 166
	cfm		212 - 247 - 300 - 353
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		21.5 - 23.0 - 26.5 - 30.0
	Heating dB (A)		21.5 - 23.0 - 26.5 - 30.0
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid mm (in.)		6.35 (1/4)Braze
diameter	Gas mm (in.)		12.7 (1/2)Braze
Field drain pipe size	mm (in.)		O.D.φ32 (1-1/4)
Drawing	External		KB94CACX
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE91TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE91PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS25VMA-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity	*1	kW	2.8	
(Nominal)	*1	BTU/h	9,600	
	*2	Power input	kW	0.039
	*2	Current input	A	(220-230-240 V) 0.34-0.33-0.32
Heating capacity	*3	kW	3.2	
(Nominal)	*3	BTU/h	10,900	
	*2	Power input	kW	0.037
	*2	Current input	A	(220-230-240 V) 0.34-0.33-0.32
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 700 x 732	
		in.	9-7/8 x 27-9/16 x 28-7/8	
Net weight		kg (lbs)	21.0 (46.5)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)	
FAN			Sirocco fan x 1	
	*4	External static press.	Pa	35 - <50> - <70> - <100> - <150>
			mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
		Motor Type	DC motor	
		Motor output	kW	0.085
		Driving mechanism	Direct-driven by motor	
	*2	Air flow rate	(Low-Mid2-Mid1-High)	
		Cooling	m ³ /min	6.0 - 7.0 - 8.5 - 10.0
			L/s	100 - 116 - 142 - 166
			cfm	212 - 247 - 300 - 353
		Heating	m ³ /min	6.0 - 7.0 - 8.5 - 10.0
			L/s	100 - 116 - 142 - 166
			cfm	212 - 247 - 300 - 353
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)	
	*5	Cooling	dB (A)	21.5 - 23.0 - 26.5 - 30.0
		Heating	dB (A)	21.5 - 23.0 - 26.5 - 30.0
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping	Liquid	mm (in.)	6.35 (1/4)Brazed	
diameter	Gas	mm (in.)	12.7 (1/2)Brazed	
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)	
Drawing	External		KB94CACX	
	Wiring		KB94CAQS	
	Refrigerant cycle		-	
Standard attachment	Document		Installation Manual, Instruction Book	
	Accessory		Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE91TB-E	
	Plasma Quad Connect		MAC-100FT-E	
	PQ attachment (Rear inlet)		PAC-HA31PAR	
	PQ attachment (Bottom inlet)		PAC-HA31PAU	
	PQ Box		PAC-KE91PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:			Unit converter	
1.Nominal cooling conditions			BTU/h =kW x 3.412	
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31	
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536	
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < >.				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
			*Above specification data is subject to rounding variation.	

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS32VMA-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		3.6
(Nominal)	*1 BTU/h		12,300
	*2 Power input kW		0.060
	*2 Current input A	(220-230-240 V)	0.50-0.48-0.46
Heating capacity	*3 kW		4.0
(Nominal)	*3 BTU/h		13,600
	*2 Power input kW		0.058
	*2 Current input A	(220-230-240 V)	0.50-0.48-0.46
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 700 x 732
	in.		9-7/8 x 27-9/16 x 28-7/8
Net weight	kg (lbs)		21.0 (46.5)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 1
	*4 External static press. Pa		35 - <50> - <70> - <100> - <150>
	mmH ₂ O		3.6 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.085
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		7.4 - 9.0 - 10.5 - 12.5
	L/s		123 - 150 - 175 - 208
	cfm		261 - 317 - 370 - 441
	Heating m ³ /min		7.4 - 9.0 - 10.5 - 12.5
	L/s		123 - 150 - 175 - 208
	cfm		261 - 317 - 370 - 441
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		24.0 - 28.0 - 31.5 - 35.5
	Heating dB (A)		24.0 - 28.0 - 31.5 - 35.5
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid mm (in.)		6.35 (1/4)Braze
diameter	Gas mm (in.)		12.7 (1/2)Braze
Field drain pipe size	mm (in.)		O.D.φ32 (1-1/4)
Drawing	External		KB94CACX
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE91TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE91PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS40VMA-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1	kW	4.5
(Nominal)	*1	BTU/h	15,400
	*2	Power input	0.087
	*2	Current input	0.70-0.67-0.64
Heating capacity	*3	kW	5.0
(Nominal)	*3	BTU/h	17,100
	*2	Power input	0.085
	*2	Current input	0.70-0.67-0.64
External finish			Galvanized steel plate
External dimension HxWxD		mm	250 x 900 x 732
		in.	9-7/8 x 35-7/16 x 28-7/8
Net weight		kg (lbs)	25.0 (55.0)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2
	*4	External static press.	35 - <50> - <70> - <100> - <150>
		mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
		Motor Type	DC motor
		Motor output	0.121
		Driving mechanism	Direct-driven by motor
	*2	Air flow rate	(Low-Mid2-Mid1-High)
		Cooling	10.0 - 11.5 - 13.5 - 19.0
			166 - 191 - 225 - 316
			353 - 406 - 476 - 670
		Heating	10.0 - 11.5 - 13.5 - 19.0
			166 - 191 - 225 - 316
			353 - 406 - 476 - 670
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5	Cooling	23.5 - 25.5 - 28.5 - 37.0
		Heating	23.5 - 25.5 - 28.5 - 37.0
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid	mm (in.)	6.35 (1/4)Brazed
diameter	Gas	mm (in.)	12.7 (1/2)Brazed
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)
Drawing	External		KB94CACX
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE92TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE92PTB-E
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.
Notes:			Unit converter BTU/h =kW x 3.412 cfm =m³/min x 35.31 lbs =kg/0.4536 *Above specification data is subject to rounding variation.
1.Nominal cooling conditions Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.) 2.The values are measured at the factory setting of external static pressure. The Air flow rate is measured by the conventional method in JIS. 3.Nominal heating conditions Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.) 4.The factory setting of airflow mode and external static pressure mode is shown without < > . Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS50VMA-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		5.6
(Nominal)	*1 BTU/h		19,100
	*2 Power input kW		0.131
	*2 Current input A	(220-230-240 V)	0.94-0.90-0.86
Heating capacity	*3 kW		6.3
(Nominal)	*3 BTU/h		21,500
	*2 Power input kW		0.129
	*2 Current input A	(220-230-240 V)	0.94-0.90-0.86
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 1100 x 732
	in.		9-7/8 x 43-5/16 x 28-7/8
Net weight	kg (lbs)		30.0 (66.0)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2
	*4 External static press. Pa		35 - <50> - <70> - <100> - <150>
	mmH ₂ O		3.6 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.121
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		12.0 - 14.5 - 16.5 - 25.6
	L/s		208 - 241 - 275 - 426
	cfm		441 - 511 - 582 - 903
	Heating m ³ /min		12.0 - 14.5 - 16.5 - 25.6
	L/s		208 - 241 - 275 - 426
	cfm		441 - 511 - 582 - 903
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		22.0 - 24.0 - 26.5 - 37.0
	Heating dB (A)		22.0 - 24.0 - 26.5 - 37.0
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid mm (in.)		6.35 (1/4)Braze
diameter	Gas mm (in.)		12.7 (1/2)Braze
Field drain pipe size	mm (in.)		O.D.φ32 (1-1/4)
Drawing	External		KB94CACX
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE93TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE93PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS63VMA-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity	*1	kW	7.1	
(Nominal)	*1	BTU/h	24,200	
	*2	Power input	kW	0.139
	*2	Current input	A	(220-230-240 V) 0.99-0.95-0.91
Heating capacity	*3	kW	8.0	
(Nominal)	*3	BTU/h	27,300	
	*2	Power input	kW	0.231
	*2	Current input	A	(220-230-240 V) 1.55-1.48-1.42
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 1100 x 732	
		in.	9-7/8 x 43-5/16 x 28-7/8	
Net weight		kg (lbs)	30.0 (66.0)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)	
FAN	Type x Quantity		Sirocco fan x 2	
	*4	External static press.	Pa	35 - <50> - <70> - <100> - <150>
			mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
		Motor Type	DC motor	
		Motor output	kW	0.121
		Driving mechanism	Direct-driven by motor	
	*2	Air flow rate	(Low-Mid2-Mid1-High)	
		Cooling	m ³ /min	13.5 - 16.0 - 19.2 - 26.2
			L/s	225 - 266 - 320 - 436
			cfm	476 - 564 - 677 - 925
		Heating	m ³ /min	13.5 - 16.0 - 19.2 - 31.0
			L/s	225 - 266 - 320 - 516
			cfm	476 - 564 - 677 - 1094
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)	
	*5	Cooling	dB (A)	23.0 - 26.0 - 30.0 - 37.5
		Heating	dB (A)	23.0 - 26.0 - 30.0 - 41.5
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping	Liquid	*6	mm (in.)	6.35 (1/4)Brazed
diameter				9.52 (3/8)Brazed
	Gas		mm (in.)	15.88 (5/8)Brazed
Field drain pipe size			mm (in.)	O.D.φ32 (1-1/4)
Drawing	External		KB94CACX	
	Wiring		KB94CAQS	
	Refrigerant cycle		-	
Standard attachment	Document		Installation Manual, Instruction Book	
	Accessory		Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE93TB-E	
	Plasma Quad Connect		MAC-100FT-E	
	PQ attachment (Rear inlet)		PAC-HA31PAR	
	PQ attachment (Bottom inlet)		PAC-HA31PAU	
	PQ Box		PAC-KE93PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:				Unit converter
1.Nominal cooling conditions				BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)				cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < >.				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.				*Above specification data is subject to rounding variation.
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.				

PEFY-MS-VMA(L)-A1

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS71VMA-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		8.0
(Nominal)	*1 BTU/h		27,300
	*2 Power input kW		0.165
	*2 Current input A	(220-230-240 V)	1.16-1.11-1.06
Heating capacity	*3 kW		9.0
(Nominal)	*3 BTU/h		30,700
	*2 Power input kW		0.216
	*2 Current input A	(220-230-240 V)	1.47-1.41-1.35
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 1400 x 732
	in.		9-7/8 x 55-1/8 x 28-7/8
Net weight	kg (lbs)		37 (82)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	*4 External static press. Pa		40 - <50> - <70> - <100> - <150>
		mmH ₂ O	4.1 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.300
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling	m ³ /min	14.5 - 18.0 - 21.0 - 33.1
		L/s	241 - 300 - 350 - 518
		cfm	511 - 635 - 741 - 1098
	Heating	m ³ /min	14.5 - 18.0 - 21.0 - 36.6
		L/s	241 - 300 - 350 - 610
		cfm	511 - 635 - 741 - 1292
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		22.0 - 25.0 - 27.5 - 38.5
	Heating dB (A)		22.0 - 25.0 - 27.5 - 40.5
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid *6	mm (in.)	6.35 (1/4)Braze
diameter			9.52 (3/8)Braze
	Gas	mm (in.)	15.88 (5/8)Braze
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)
Drawing	External		KB94CACX
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE94TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE94PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			
1.Nominal cooling conditions			Unit converter
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			BTU/h =kW x 3,412
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			cfm =m ³ /min x 35.31
2.The values are measured at the factory setting of external static pressure.			lbs =kg/0.4536
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.			
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS80VMA-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity (Nominal)	*1	kW	9.0	
	*1	BTU/h	30,700	
	*2	Power input	kW	0.165
	*2	Current input	A	(220-230-240 V) 1.16-1.11-1.06
Heating capacity (Nominal)	*3	kW	10.0	
	*3	BTU/h	34,100	
	*2	Power input	kW	0.216
	*2	Current input	A	(220-230-240 V) 1.47-1.41-1.35
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 1400 x 732	
		in.	9-7/8 x 55-1/8 x 28-7/8	
Net weight		kg (lbs)	37 (82)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)	
FAN		Type x Quantity	Sirocco fan x 3	
		*4 External static press.	Pa	40 - <50> - <70> - <100> - <150>
		mmH ₂ O	4.1 - <5.1> - <7.1> - <10.2> - <15.3>	
		Motor Type	DC motor	
		Motor output	kW	0.300
		Driving mechanism	Direct-driven by motor	
*2 Air flow rate		Cooling	m ³ /min	(Low-Mid2-Mid1-High)
			L/s	14.5 - 18.0 - 21.0 - 33.1
			cfm	241 - 300 - 350 - 518
		Heating	m ³ /min	511 - 635 - 741 - 1098
			L/s	14.5 - 18.0 - 21.0 - 36.6
			cfm	241 - 300 - 350 - 610
Sound pressure level (measured in anechoic room)		511 - 635 - 741 - 1292		
		(Low-Mid2-Mid1-High)		
		*5 Cooling	dB (A)	22.0 - 25.0 - 27.5 - 38.5
		Heating	dB (A)	22.0 - 25.0 - 27.5 - 40.5
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping diameter	Liquid *6	mm (in.)	6.35 (1/4)Braze	
			9.52 (3/8)Braze	
Gas	mm (in.)	15.88 (5/8)Braze		
		O.D.φ32 (1-1/4)		
Field drain pipe size		mm (in.)	KB94CACX	
Drawing	External		KB94CAQS	
	Wiring		-	
Refrigerant cycle				
Standard attachment		Document	Installation Manual, Instruction Book	
		Accessory	Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE94TB-E	
	Plasma Quad Connect		MAC-100FT-E	
	PQ attachment (Rear inlet)		PAC-HA31PAR	
	PQ attachment (Bottom inlet)		PAC-HA31PAU	
	PQ Box		PAC-KE94PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:			Unit converter	
1.Nominal cooling conditions			BTU/h =kW x 3,412	
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31	
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536	
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < > .				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.				
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.			*Above specification data is subject to rounding variation.	

PEFY-MS-VMA(L)-A1

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS100VMA-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		11.2
(Nominal)	*1 BTU/h		38,200
	*2 Power input kW		0.211
	*2 Current input A	(220-230-240 V)	1.44-1.38-1.32
Heating capacity	*3 kW		12.5
(Nominal)	*3 BTU/h		42,700
	*2 Power input kW		0.209
	*2 Current input A	(220-230-240 V)	1.44-1.38-1.32
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 1400 x 732
	in.		9-7/8 x 55-1/8 x 28-7/8
Net weight	kg (lbs)		37 (82)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	*4 External static press. Pa		40 - <50> - <70> - <100> - <150>
	mmH ₂ O		4.1 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.300
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		23.0 - 28.0 - 32.0 - 37.0
	L/s		383 - 466 - 533 - 616
	cfm		812 - 988 - 1129 - 1306
	Heating m ³ /min		23.0 - 28.0 - 32.0 - 37.0
	L/s		383 - 466 - 533 - 616
	cfm		812 - 988 - 1129 - 1306
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		29.5 - 34.0 - 37.5 - 40.0
	Heating dB (A)		29.5 - 34.0 - 37.5 - 40.0
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid mm (in.)		9.52 (3/8)Braze
diameter	Gas mm (in.)		15.88 (5/8)Braze
Field drain pipe size	mm (in.)		O.D.φ32 (1-1/4)
Drawing	External		KB94CACX
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE94TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE94PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS125VMA-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity			14.0	
(Nominal)			47,800	
*2 Power input			0.218	
*2 Current input			1.40-1.33-1.28	
Heating capacity			16.0	
(Nominal)			54,600	
*2 Power input			0.216	
*2 Current input			1.40-1.33-1.28	
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 1400 x 732	
		in.	9-7/8 x 55-1/8 x 28-7/8	
Net weight		kg (lbs)	38 (84)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)	
FAN			Sirocco fan x 3	
*4 External static press.			<40> - 50 - <70> - <100> - <150>	
			<4.1> - 5.1 - <7.1> - <10.2> - <15.3>	
Motor Type			DC motor	
Motor output			0.300	
Driving mechanism			Direct-driven by motor	
*2 Air flow rate			(Low-Mid2-Mid1-High)	
Cooling			25.5 - 31.0 - 34.0 - 37.0	
			425 - 516 - 566 - 616	
			900 - 1094 - 1200 - 1306	
Heating			25.5 - 31.0 - 34.0 - 37.0	
			425 - 516 - 566 - 616	
			900 - 1094 - 1200 - 1306	
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)	
*5 Cooling			31.5 - 36.5 - 38.5 - 40.5	
Heating			31.5 - 36.5 - 38.5 - 40.5	
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping			9.52 (3/8)Brazed	
diameter			15.88 (5/8)Brazed	
Field drain pipe size			O.D.φ32 (1-1/4)	
Drawing			KB94CACX	
			KB94CAQS	
Refrigerant cycle			-	
Standard attachment			Installation Manual, Instruction Book	
Accessory			Washer, Drain hose, Tie band	
Optional parts			PAC-KE94TB-E	
			MAC-100FT-E	
			PAC-HA31PAR	
			PAC-HA31PAU	
			PAC-KE94PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:			Unit converter	
1.Nominal cooling conditions			BTU/h =kW x 3,412	
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m³/min x 35.31	
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536	
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < > .				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
			*Above specification data is subject to rounding variation.	

PEFY-MS-VMA(L)-A1

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS140VMA-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		16.0
(Nominal)	*1 BTU/h		54,600
	*2 Power input kW		0.282
	*2 Current input A	(220-230-240 V)	1.84-1.76-1.69
Heating capacity	*3 kW		18.0
(Nominal)	*3 BTU/h		61,400
	*2 Power input kW		0.280
	*2 Current input A	(220-230-240 V)	1.84-1.76-1.69
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 1600 x 732
	in.		9-7/8 x 63 x 28-7/8
Net weight	kg (lbs)		42 (93)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	*4 External static press. Pa		<40> - 50 - <70> - <100> - <150>
	mmH ₂ O		<4.1> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.300
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		29.5 - 35.5 - 40.0 - 44.0
	L/s		491 - 591 - 666 - 733
	cfm		1041 - 1253 - 1412 - 1553
	Heating m ³ /min		29.5 - 35.5 - 40.0 - 44.0
	L/s		491 - 591 - 666 - 733
	cfm		1041 - 1253 - 1412 - 1553
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		34.0 - 38.0 - 40.5 - 43.0
	Heating dB (A)		34.0 - 38.0 - 40.5 - 43.0
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid mm (in.)		9.52 (3/8)Braze
diameter	Gas mm (in.)		15.88 (5/8)Braze
Field drain pipe size	mm (in.)		O.D.φ32 (1-1/4)
Drawing	External		KB94CACX
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE95TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE95PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS20VMAL-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity	*1	kW	2.2	
(Nominal)	*1	BTU/h	7,500	
	*2	Power input	kW	0.037
	*2	Current input	A	(220-230-240 V) 0.34-0.33-0.32
Heating capacity	*3	kW	2.5	
(Nominal)	*3	BTU/h	8,500	
	*2	Power input	kW	0.037
	*2	Current input	A	(220-230-240 V) 0.34-0.33-0.32
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 700 x 732	
		in.	9-7/8 x 27-9/16 x 28-7/8	
Net weight		kg (lbs)	20.0 (44.0)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)	
FAN	Type x Quantity		Sirocco fan x 1	
	*4	External static press.	Pa	35 - <50> - <70> - <100> - <150>
			mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
		Motor Type	DC motor	
		Motor output	kW	0.085
		Driving mechanism	Direct-driven by motor	
	*2	Air flow rate	(Low-Mid2-Mid1-High)	
		Cooling	m ³ /min	6.0 - 7.0 - 8.5 - 10.0
			L/s	100 - 116 - 142 - 166
			cfm	212 - 247 - 300 - 353
		Heating	m ³ /min	6.0 - 7.0 - 8.5 - 10.0
			L/s	100 - 116 - 142 - 166
			cfm	212 - 247 - 300 - 353
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)	
	*5	Cooling	dB (A)	21.5 - 23.0 - 26.5 - 30.0
		Heating	dB (A)	21.5 - 23.0 - 26.5 - 30.0
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping	Liquid	mm (in.)	6.35 (1/4)Brazed	
diameter	Gas	mm (in.)	12.7 (1/2)Brazed	
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)	
Drawing	External		KB94CACY	
	Wiring		KB94CAQS	
	Refrigerant cycle		-	
Standard attachment			Document	
	Installation Manual, Instruction Book			
	Accessory		Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE91TB-E	
	Plasma Quad Connect		MAC-100FT-E	
	PQ attachment (Rear inlet)		PAC-HA31PAR	
	PQ attachment (Bottom inlet)		PAC-HA31PAU	
	PQ Box		PAC-KE91PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:				Unit converter
1.Nominal cooling conditions				BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)				cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < > .				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
				*Above specification data is subject to rounding variation.

PEFY-MS-VMAL(A)-A1

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS25VMAL-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		2.8
(Nominal)	*1 BTU/h		9,600
	*2 Power input kW		0.037
	*2 Current input A	(220-230-240 V)	0.34-0.33-0.32
Heating capacity	*3 kW		3.2
(Nominal)	*3 BTU/h		10,900
	*2 Power input kW		0.037
	*2 Current input A	(220-230-240 V)	0.34-0.33-0.32
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 700 x 732
	in.		9-7/8 x 27-9/16 x 28-7/8
Net weight	kg (lbs)		20.0 (44.0)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 1
	*4 External static press. Pa		35 - <50> - <70> - <100> - <150>
		mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.085
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling	m ³ /min	6.0 - 7.0 - 8.5 - 10.0
		L/s	100 - 116 - 142 - 166
		cfm	212 - 247 - 300 - 353
	Heating	m ³ /min	6.0 - 7.0 - 8.5 - 10.0
		L/s	100 - 116 - 142 - 166
		cfm	212 - 247 - 300 - 353
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		21.5 - 23.0 - 26.5 - 30.0
	Heating dB (A)		21.5 - 23.0 - 26.5 - 30.0
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid	mm (in.)	6.35 (1/4)Braze
diameter	Gas	mm (in.)	12.7 (1/2)Braze
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)
Drawing	External		KB94CACY
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE91TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE91PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMAL(A)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS32VMAL-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity	*1	kW	3.6	
(Nominal)	*1	BTU/h	12,300	
	*2	Power input	kW	0.058
	*2	Current input	A	(220-230-240 V) 0.50-0.48-0.46
Heating capacity	*3	kW	4.0	
(Nominal)	*3	BTU/h	13,600	
	*2	Power input	kW	0.058
	*2	Current input	A	(220-230-240 V) 0.50-0.48-0.46
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 700 x 732	
		in.	9-7/8 x 27-9/16 x 28-7/8	
Net weight		kg (lbs)	20.5 (45.0)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)	
FAN			Sirocco fan x 1	
	*4	External static press.	Pa	35 - <50> - <70> - <100> - <150>
			mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
		Motor Type	DC motor	
		Motor output	kW	0.085
		Driving mechanism	Direct-driven by motor	
	*2	Air flow rate	(Low-Mid2-Mid1-High)	
		Cooling	m ³ /min	7.4 - 9.0 - 10.5 - 12.5
			L/s	123 - 150 - 175 - 208
			cfm	261 - 317 - 370 - 441
		Heating	m ³ /min	7.4 - 9.0 - 10.5 - 12.5
			L/s	123 - 150 - 175 - 208
			cfm	261 - 317 - 370 - 441
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)	
	*5	Cooling	dB (A)	24.0 - 28.0 - 31.5 - 35.5
		Heating	dB (A)	24.0 - 28.0 - 31.5 - 35.5
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping	Liquid	mm (in.)	6.35 (1/4)Brazed	
diameter	Gas	mm (in.)	12.7 (1/2)Brazed	
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)	
Drawing	External		KB94CACY	
	Wiring		KB94CAQS	
	Refrigerant cycle		-	
Standard attachment	Document		Installation Manual, Instruction Book	
	Accessory		Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE91TB-E	
	Plasma Quad Connect		MAC-100FT-E	
	PQ attachment (Rear inlet)		PAC-HA31PAR	
	PQ attachment (Bottom inlet)		PAC-HA31PAU	
	PQ Box		PAC-KE91PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:			Unit converter	
1.Nominal cooling conditions			BTU/h =kW x 3.412	
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31	
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536	
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < > .				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
			*Above specification data is subject to rounding variation.	

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS40VMAL-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		4.5
(Nominal)	*1 BTU/h		15,400
	*2 Power input kW		0.085
	*2 Current input A	(220-230-240 V)	0.70-0.67-0.64
Heating capacity	*3 kW		5.0
(Nominal)	*3 BTU/h		17,100
	*2 Power input kW		0.085
	*2 Current input A	(220-230-240 V)	0.70-0.67-0.64
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 900 x 732
	in.		9-7/8 x 35-7/16 x 28-7/8
Net weight	kg (lbs)		24.5 (54.0)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2
	*4 External static press. Pa		35 - <50> - <70> - <100> - <150>
	mmH ₂ O		3.6 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.121
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		10.0 - 11.5 - 13.5 - 19.0
	L/s		166 - 191 - 225 - 316
	cfm		353 - 406 - 476 - 670
	Heating m ³ /min		10.0 - 11.5 - 13.5 - 19.0
	L/s		166 - 191 - 225 - 316
	cfm		353 - 406 - 476 - 670
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		23.5 - 25.5 - 28.5 - 37.0
	Heating dB (A)		23.5 - 25.5 - 28.5 - 37.0
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid mm (in.)		6.35 (1/4)Braze
diameter	Gas mm (in.)		12.7 (1/2)Braze
Field drain pipe size	mm (in.)		O.D.φ32 (1-1/4)
Drawing	External		KB94CACV
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE92TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE92PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS50VMAL-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity	*1	kW	5.6	
(Nominal)	*1	BTU/h	19,100	
	*2	Power input	kW	0.129
	*2	Current input	A	(220-230-240 V) 0.94-0.90-0.86
Heating capacity	*3	kW	6.3	
(Nominal)	*3	BTU/h	21,500	
	*2	Power input	kW	0.129
	*2	Current input	A	(220-230-240 V) 0.94-0.90-0.86
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 1100 x 732	
		in.	9-7/8 x 43-5/16 x 28-7/8	
Net weight		kg (lbs)	29.0 (64.0)	
Heat exchanger			Cross fin (Aluminium fin and copper tube)	
FAN			Sirocco fan x 2	
	*4	External static press.	Pa	35 - <50> - <70> - <100> - <150>
			mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
		Motor Type	DC motor	
		Motor output	kW	0.121
		Driving mechanism	Direct-driven by motor	
	*2	Air flow rate	(Low-Mid2-Mid1-High)	
		Cooling	m ³ /min	12.0 - 14.5 - 16.5 - 25.6
			L/s	208 - 241 - 275 - 426
			cfm	441 - 511 - 582 - 903
		Heating	m ³ /min	12.0 - 14.5 - 16.5 - 25.6
			L/s	208 - 241 - 275 - 426
			cfm	441 - 511 - 582 - 903
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)	
	*5	Cooling	dB (A)	22.0 - 24.0 - 26.5 - 37.0
		Heating	dB (A)	22.0 - 24.0 - 26.5 - 37.0
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping	Liquid	mm (in.)	6.35 (1/4)Brazed	
diameter	Gas	mm (in.)	12.7 (1/2)Brazed	
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)	
Drawing	External		KB94CACY	
	Wiring		KB94CAQS	
	Refrigerant cycle		-	
Standard attachment			Document	
	Installation Manual, Instruction Book			
Accessory			Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE93TB-E	
	Plasma Quad Connect		MAC-100FT-E	
	PQ attachment (Rear inlet)		PAC-HA31PAR	
	PQ attachment (Bottom inlet)		PAC-HA31PAU	
	PQ Box		PAC-KE93PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:				Unit converter
1.Nominal cooling conditions				BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)				cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < > .				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
				*Above specification data is subject to rounding variation.

PEFY-MS-VMAL(A)-A1

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS63VMAL-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		7.1
(Nominal)	*1 BTU/h		24,200
	*2 Power input kW		0.137
	*2 Current input A	(220-230-240 V)	0.99-0.95-0.91
Heating capacity	*3 kW		8.0
(Nominal)	*3 BTU/h		27,300
	*2 Power input kW		0.231
	*2 Current input A	(220-230-240 V)	1.55-1.48-1.42
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 1100 x 732
	in.		9-7/8 x 43-5/16 x 28-7/8
Net weight	kg (lbs)		29.0 (64.0)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2
	*4 External static press. Pa		35 - <50> - <70> - <100> - <150>
		mmH ₂ O	3.6 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.121
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling	m ³ /min	13.5 - 16.0 - 19.2 - 26.2
		L/s	225 - 266 - 320 - 436
		cfm	476 - 564 - 677 - 925
	Heating	m ³ /min	13.5 - 16.0 - 19.2 - 31.0
		L/s	225 - 266 - 320 - 516
		cfm	476 - 564 - 677 - 1094
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling	dB (A)	23.0 - 26.0 - 30.0 - 37.5
	Heating	dB (A)	23.0 - 26.0 - 30.0 - 41.5
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid *6	mm (in.)	6.35 (1/4)Braze
diameter			9.52 (3/8)Braze
	Gas	mm (in.)	15.88 (5/8)Braze
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)
Drawing	External		KB94CACY
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE93TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE93PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.			
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS71VMAL-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1	kW	8.0
(Nominal)	*1	BTU/h	27,300
	*2	Power input	kW
	*2	Current input	A
			(220-230-240 V)
Heating capacity	*3	kW	9.0
(Nominal)	*3	BTU/h	30,700
	*2	Power input	kW
	*2	Current input	A
			(220-230-240 V)
External finish			Galvanized steel plate
External dimension HxWxD		mm	250 x 1400 x 732
		in.	9-7/8 x 55-1/8 x 28-7/8
Net weight		kg (lbs)	36 (80)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	*4 External static press.	Pa	40 - <50> - <70> - <100> - <150>
		mmH ₂ O	4.1 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output	kW	0.300
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling	m ³ /min	14.5 - 18.0 - 21.0 - 33.1
		L/s	241 - 300 - 350 - 518
		cfm	511 - 635 - 741 - 1098
	Heating	m ³ /min	14.5 - 18.0 - 21.0 - 36.6
		L/s	241 - 300 - 350 - 610
		cfm	511 - 635 - 741 - 1292
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling	dB (A)	22.0 - 25.0 - 27.5 - 38.5
	Heating	dB (A)	22.0 - 25.0 - 27.5 - 40.5
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid *6	mm (in.)	6.35 (1/4)Brazed
diameter			9.52 (3/8)Brazed
	Gas	mm (in.)	15.88 (5/8)Brazed
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)
Drawing	External		KB94CACV
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE94TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE94PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.			
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.			*Above specification data is subject to rounding variation.

PEFY-MS-VMAL(A)-A1

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS80VMAL-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		9.0
(Nominal)	*1 BTU/h		30,700
	*2 Power input kW		0.163
	*2 Current input A	(220-230-240 V)	1.16-1.11-1.06
Heating capacity	*3 kW		10.0
(Nominal)	*3 BTU/h		34,100
	*2 Power input kW		0.216
	*2 Current input A	(220-230-240 V)	1.47-1.41-1.35
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 1400 x 732
	in.		9-7/8 x 55-1/8 x 28-7/8
Net weight	kg (lbs)		36 (80)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	*4 External static press. Pa		40 - <50> - <70> - <100> - <150>
	mmH ₂ O		4.1 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.300
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		14.5 - 18.0 - 21.0 - 33.1
	L/s		241 - 300 - 350 - 518
	cfm		511 - 635 - 741 - 1098
	Heating m ³ /min		14.5 - 18.0 - 21.0 - 36.6
	L/s		241 - 300 - 350 - 610
	cfm		511 - 635 - 741 - 1292
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		22.0 - 25.0 - 27.5 - 38.5
	Heating dB (A)		22.0 - 25.0 - 27.5 - 40.5
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid *6	mm (in.)	6.35 (1/4)Braze
diameter			9.52 (3/8)Braze
	Gas	mm (in.)	15.88 (5/8)Braze
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)
Drawing	External		KB94CACY
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE94TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE94PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			
1.Nominal cooling conditions			Unit converter
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			BTU/h =kW x 3,412
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			cfm =m ³ /min x 35.31
2.The values are measured at the factory setting of external static pressure.			lbs =kg/0.4536
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.			
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMAL(A)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)	
MODEL			PEFY-MS100VMAL-A1	
Power source			1-phase 220-230-240 V 50 Hz	
Cooling capacity (Nominal)	*1	kW	11.2	
	*1	BTU/h	38,200	
	*2 Power input	kW	0.209	
	*2 Current input	A	1.44-1.38-1.32	
Heating capacity (Nominal)	*3	kW	12.5	
	*3	BTU/h	42,700	
	*2 Power input	kW	0.209	
	*2 Current input	A	1.44-1.38-1.32	
External finish			Galvanized steel plate	
External dimension HxWxD		mm	250 x 1400 x 732	
		in.	9-7/8 x 55-1/8 x 28-7/8	
Net weight		kg (lbs)	36 (80)	
Heat exchanger			Cross fin (Alminium fin and copper tube)	
FAN		Type x Quantity	Sirocco fan x 3	
	*4	External static press.	Pa	40 - <50> - <70> - <100> - <150>
			mmH ₂ O	4.1 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor	
	Motor output		0.300	
	Driving mechanism		Direct-driven by motor	
	*2	Air flow rate	(Low-Mid2-Mid1-High)	
			Cooling	m ³ /min L/s cfm
	Heating	m ³ /min L/s cfm	23.0 - 28.0 - 32.0 - 37.0	
			383 - 466 - 533 - 616	
			812 - 988 - 1129 - 1306	
			23.0 - 28.0 - 32.0 - 37.0	
			383 - 466 - 533 - 616	
			812 - 988 - 1129 - 1306	
	Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5	Cooling	dB (A)	
		Heating	dB (A)	
Insulation material			EPS, Polystyrene foam, Urethane foam	
Air filter			PP honeycomb fabric.	
Protection device			Fuse	
Refrigerant control device			LEV	
Connectable outdoor unit			R32, R410A CITY MULTI	
Refrigerant piping diameter	Liquid	mm (in.)	9.52 (3/8)Braze	
	Gas	mm (in.)	15.88 (5/8)Braze	
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)	
Drawing	External		KB94CACY	
	Wiring		KB94CAQS	
	Refrigerant cycle		-	
Standard attachment		Document	Installation Manual, Instruction Book	
		Accessory	Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE94TB-E	
	Plasma Quad Connect		MAC-100FT-E	
	PQ attachment (Rear inlet)		PAC-HA31PAR	
	PQ attachment (Bottom inlet)		PAC-HA31PAU	
	PQ Box		PAC-KE94PTB-E	
Remarks				
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
Notes:				Unit converter
1.Nominal cooling conditions				BTU/h =kW x 3.412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)				cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.				
The Air flow rate is measured by the conventional method in JIS.				
3.Nominal heating conditions				
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)				
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				
4.The factory setting of airflow mode and external static pressure mode is shown without < > .				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.				
				*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)
MODEL			PEFY-MS125VMAL-A1
Power source			1-phase 220-230-240 V 50 Hz
Cooling capacity	*1 kW		14.0
(Nominal)	*1 BTU/h		47,800
	*2 Power input kW		0.216
	*2 Current input A	(220-230-240 V)	1.40-1.33-1.28
Heating capacity	*3 kW		16.0
(Nominal)	*3 BTU/h		54,600
	*2 Power input kW		0.216
	*2 Current input A	(220-230-240 V)	1.40-1.33-1.28
External finish			Galvanized steel plate
External dimension HxWxD	mm		250 x 1400 x 732
	in.		9-7/8 x 55-1/8 x 28-7/8
Net weight	kg (lbs)		37 (82)
Heat exchanger			Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 3
	*4 External static press. Pa		<40> - 50 - <70> - <100> - <150>
	mmH ₂ O		<4.1> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor
	Motor output kW		0.300
	Driving mechanism		Direct-driven by motor
	*2 Air flow rate		(Low-Mid2-Mid1-High)
	Cooling m ³ /min		25.5 - 31.0 - 34.0 - 37.0
	L/s		425 - 516 - 566 - 616
	cfm		900 - 1094 - 1200 - 1306
	Heating m ³ /min		25.5 - 31.0 - 34.0 - 37.0
	L/s		425 - 516 - 566 - 616
	cfm		900 - 1094 - 1200 - 1306
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)
	*5 Cooling dB (A)		31.5 - 36.5 - 38.5 - 40.5
	Heating dB (A)		31.5 - 36.5 - 38.5 - 40.5
Insulation material			EPS, Polystyrene foam, Urethane foam
Air filter			PP honeycomb fabric.
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R32, R410A CITY MULTI
Refrigerant piping	Liquid mm (in.)		9.52 (3/8)Braze
diameter	Gas mm (in.)		15.88 (5/8)Braze
Field drain pipe size	mm (in.)		O.D.φ32 (1-1/4)
Drawing	External		KB94CACV
	Wiring		KB94CAQS
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		Washer, Drain hose, Tie band
Optional parts	Filter box		PAC-KE94TB-E
	Plasma Quad Connect		MAC-100FT-E
	PQ attachment (Rear inlet)		PAC-HA31PAR
	PQ attachment (Bottom inlet)		PAC-HA31PAU
	PQ Box		PAC-KE94PTB-E
Remarks			
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
* Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			Unit converter
1.Nominal cooling conditions			BTU/h =kW x 3,412
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)			cfm =m ³ /min x 35.31
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			lbs =kg/0.4536
2.The values are measured at the factory setting of external static pressure.			
The Air flow rate is measured by the conventional method in JIS.			
3.Nominal heating conditions			
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)			
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)			
4.The factory setting of airflow mode and external static pressure mode is shown without < >.			
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.			
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.			
			*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

SPECIFICATIONS OF Air Conditioner			(Ceiling-concealed TYPE)		
MODEL			PEFY-MS140VMAL-A1		
Power source			1-phase 220-230-240 V 50 Hz		
Cooling capacity (Nominal)	*1	kW	16.0		
	*1	BTU/h	54,600		
	*2	Power input	kW	0.280	
	*2	Current input	A	(220-230-240 V) 1.84-1.76-1.69	
Heating capacity (Nominal)	*3	kW	18.0		
	*3	BTU/h	61,400		
	*2	Power input	kW	0.280	
	*2	Current input	A	(220-230-240 V) 1.84-1.76-1.69	
External finish			Galvanized steel plate		
External dimension HxWxD		mm	250 x 1600 x 732		
		in.	9-7/8 x 63 x 28-7/8		
Net weight		kg (lbs)	41 (91)		
Heat exchanger			Cross fin (Aluminium fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 3		
	*4	External static press.	Pa	<40> - 50 - <70> - <100> - <150>	
			mmH ₂ O	<4.1> - 5.1 - <7.1> - <10.2> - <15.3>	
	Motor Type		DC motor		
	Motor output		kW	0.300	
	Driving mechanism		Direct-driven by motor		
	*2	Air flow rate		(Low-Mid2-Mid1-High)	
		Cooling	m ³ /min	29.5 - 35.5 - 40.0 - 44.0	
			L/s	491 - 591 - 666 - 733	
			cfm	1041 - 1253 - 1412 - 1553	
Heating		m ³ /min	29.5 - 35.5 - 40.0 - 44.0		
		L/s	491 - 591 - 666 - 733		
	cfm	1041 - 1253 - 1412 - 1553			
Sound pressure level (measured in anechoic room)			(Low-Mid2-Mid1-High)		
	*5	Cooling	dB (A)	34.0 - 38.0 - 40.5 - 43.0	
		Heating	dB (A)	34.0 - 38.0 - 40.5 - 43.0	
Insulation material			EPS, Polystyrene foam, Urethane foam		
Air filter			PP honeycomb fabric.		
Protection device			Fuse		
Refrigerant control device			LEV		
Connectable outdoor unit			R32, R410A CITY MULTI		
Refrigerant piping diameter	Liquid	mm (in.)	9.52 (3/8)Braze		
	Gas	mm (in.)	15.88 (5/8)Braze		
Field drain pipe size		mm (in.)	O.D.φ32 (1-1/4)		
Drawing	External		KB94CACV		
	Wiring		KB94CAQS		
	Refrigerant cycle		-		
Standard attachment	Document		Installation Manual, Instruction Book		
	Accessory		Washer, Drain hose, Tie band		
Optional parts	Filter box		PAC-KE95TB-E		
	Plasma Quad Connect		MAC-100FT-E		
	PQ attachment (Rear inlet)		PAC-HA31PAR		
	PQ attachment (Bottom inlet)		PAC-HA31PAU		
	PQ Box		PAC-KE95PTB-E		
Remarks					
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.					
* Due to continuing improvement, above specifications may be subject to change without notice.					
Notes:				Unit converter	
1.Nominal cooling conditions				BTU/h =kW x 3,412	
Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)				cfm =m ³ /min x 35.31	
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)				lbs =kg/0.4536	
2.The values are measured at the factory setting of external static pressure.					
The Air flow rate is measured by the conventional method in JIS.					
3.Nominal heating conditions					
Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)					
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)					
4.The factory setting of airflow mode and external static pressure mode is shown without < >.					
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.					
5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.					
				*Above specification data is subject to rounding variation.	

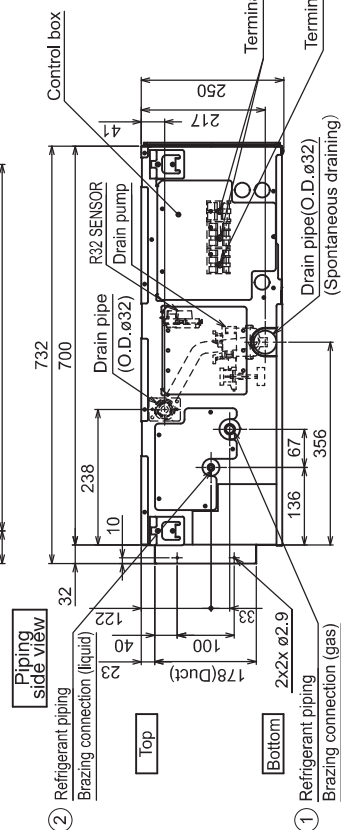
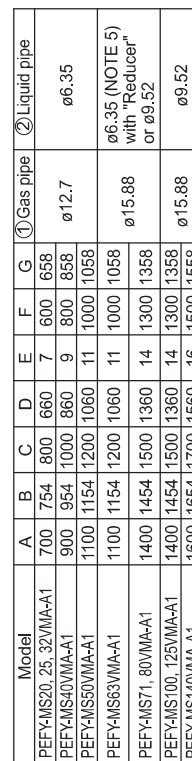
PEFY-MS-VMAL-A1

PEFY-MS-VMA(L)-A1

Unit: mm

- Note 1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-MS50-63/VMA-A1 models, which have 2 fans. PEFY-MS20-25-32/VMA-A1 models have 1 fan. PEFY-MS40/VMA-A1 models have 2 fans. PEFY-MS71-80-100-125-140/VMA-A1 models have 3 fans.
4. In case of the inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.
5. It is possible to reduce the pipe size to ø6.35 using a "Reducer" included in the accessory bag.

The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.



PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-A1

Unit: mm

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.
Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)
- Create access door 1 and 2 (450×450mm each) as shown in Fig.2.

(Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

- (2) When a space of less than 300mm is available below the unit between the unit and the ceiling.

(At least 20mm of space should be left below the unit as shown in Fig.3.)

- Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.

or

- Create access door 4 below the control box and the unit as shown in Fig.5.

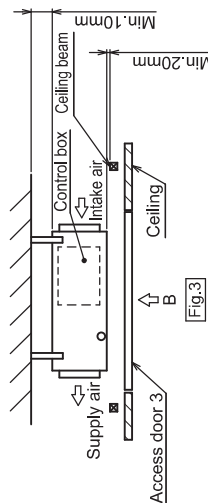
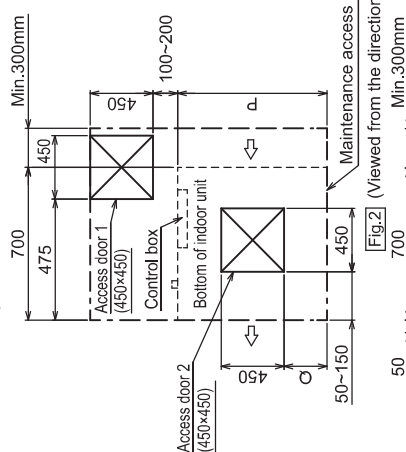
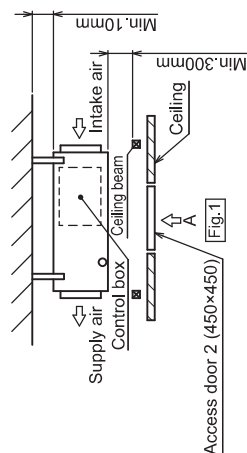


Fig.2 (Viewed from the direction of the arrow A)

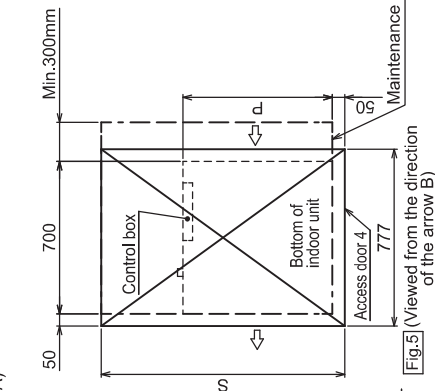


Fig.4 (Viewed from the direction of the arrow B)

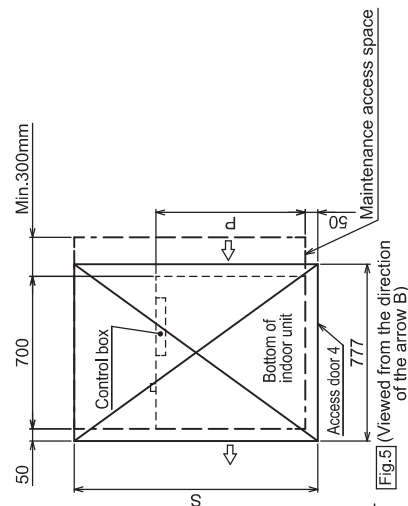


Fig.5 (Viewed from the direction of the arrow B)

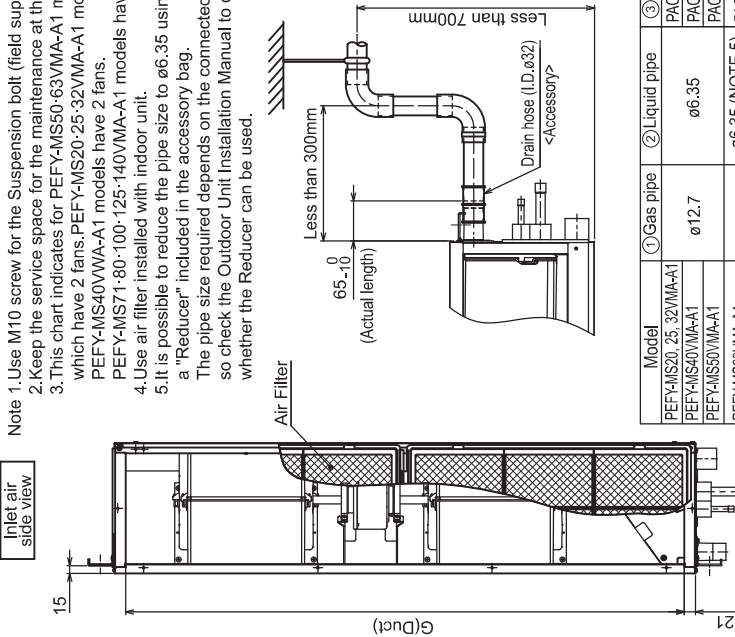
Model	H	J	K	L	M	N	P	Q	R	S
PEFY-MS20, 25, 32VMA-A1	44	150	300	10	700	50-150	800	1300		
PEFY-MS40VMA-A1	54	260	4	780	10	900	150-250	1000	1500	
PEFY-MS50, 63VMA-A1	49	330	4	990	10	1100	250-350	1200	1700	
PEFY-MS71, 80, 100, 125VMA-A1	54	320	5	1280	12	1400	400-500	1500	2000	
PEFY-MS140VMA-A1	54	370	5	1480	12	1600	500-600	1700	2200	

PEFY-MS-VMA(L)-A1

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-A1 Suction filter box built-in-specification

Unit: mm

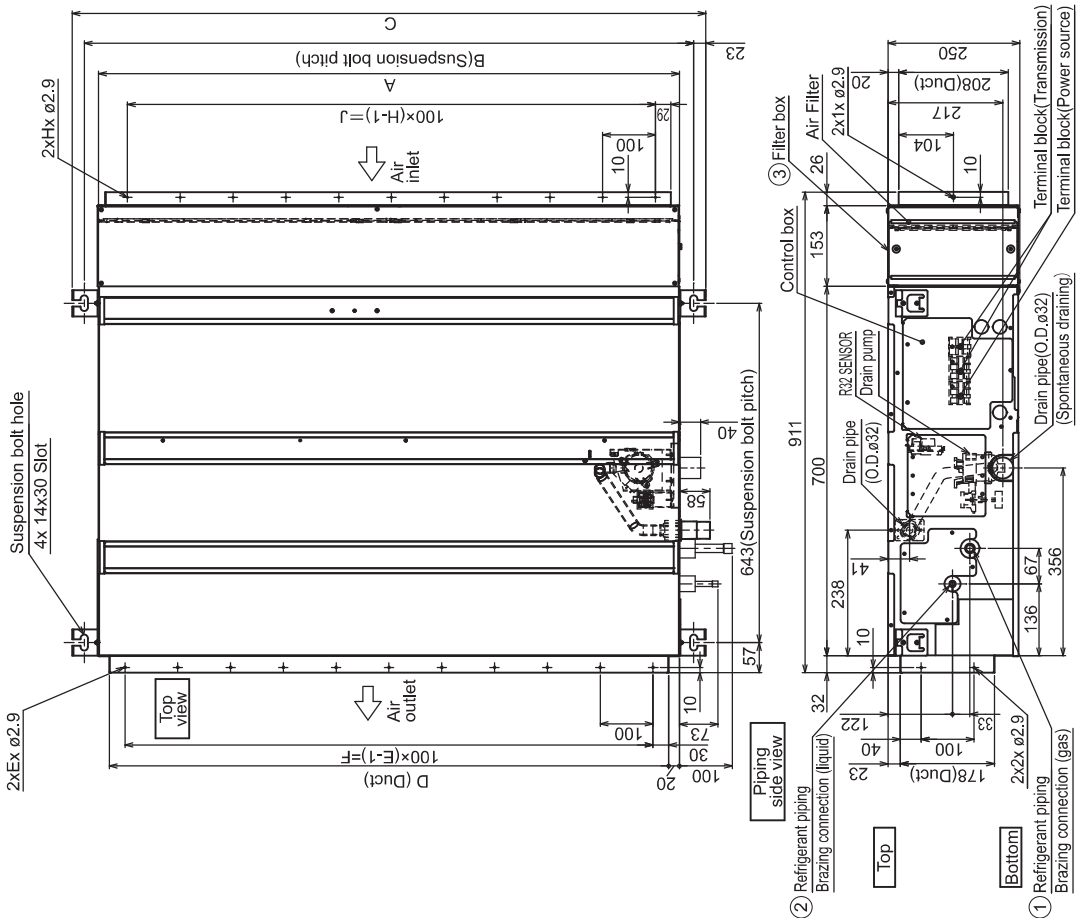
- Note 1. Use M10 screw for the Suspension bolt (field supply).
 2. Keep the service space for the maintenance at the bottom.
 3. This chart indicates for PEFY-MS50-63VMA-A1 models, which have 2 fans. PEFY-MS20-25-32VMA-A1 models have 1 fan. PEFY-MS40VMA-A1 models have 2 fans. PEFY-MS71-80-100-125-140VMA-A1 models have 3 fans.
 4. Use air filter installed with indoor unit.
 5. It is possible to reduce the pipe size to $\phi 6.35$ using a "Reducer" included in the accessory bag.
 The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.



Model	① Gas pipe	② Liquid pipe	③ Filter box
PEFY-MS20, 25, 32VMA-A1			PAC-KE91TB-E
PEFY-MS40VMA-A1	$\phi 12.7$	$\phi 6.35$	PAC-KE92TB-E
PEFY-MS50VMA-A1			PAC-KE93TB-E
PEFY-MS63VMA-A1		$\phi 6.35$ (NOTE 5) with "Reducer"	PAC-KE93TB-E
PEFY-MS71, 80VMA-A1	$\phi 15.88$		PAC-KE94TB-E
PEFY-MS100, 125VMA-A1		$\phi 9.52$	PAC-KE94TB-E
PEFY-MS140VMA-A1	$\phi 15.88$		PAC-KE95TB-E

Model	A	B	C	D	E	F	G	H	J
PEFY-MS20, 25, 32VMA-A1	700	754	800	660	7	600	658	7	600
PEFY-MS40VMA-A1	900	954	1000	860	9	800	858	9	800
PEFY-MS50, 63VMA-A1	1100	1154	1200	1060	11	1000	1058	11	1000
PEFY-MS71, 80, 100, 125VMA-A1	1400	1454	1500	1360	14	1300	1358	14	1300
PEFY-MS140VMA-A1	1600	1654	1700	1560	16	1500	1558	16	1500

<Suction filter box built-in-specification>



PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-A1 Suction filter box built-in-specification

Unit: mm

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.
Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig. 1)

• Create access door 1 and 2 (450×450mm each) as shown in Fig. 2.

- (2) When a space of less than 300mm is available below the unit for a maintenance worker to work in.)
(At least 20mm of space should be left below the unit as shown in Fig. 3.)

- Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig. 4.
or
• Create access door 4 below the control box and the unit as shown in Fig. 5.

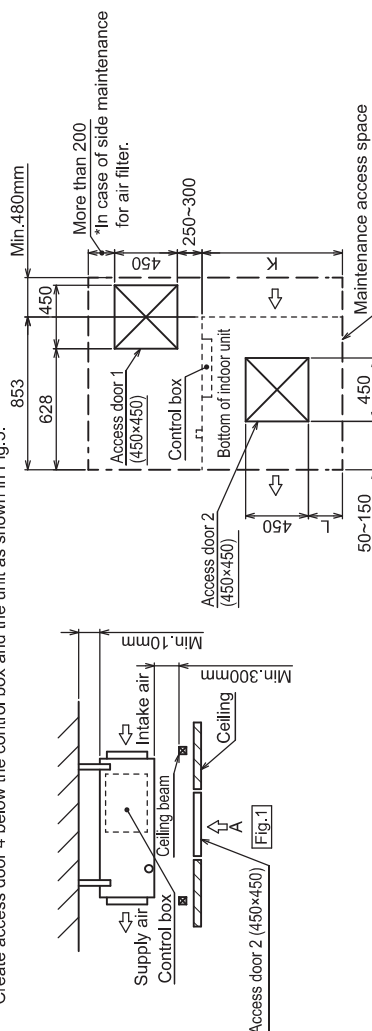
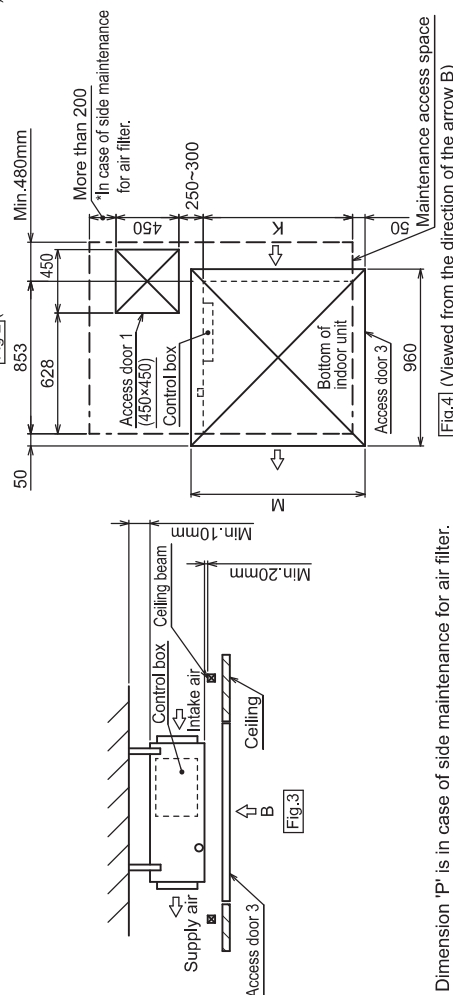


Fig. 2 (Viewed from the direction of the arrow A)



* Dimension 'P' is in case of side maintenance for air filter.

Model	K	L	M	N	P*
PEFY-MS20, 25, 32VMA-A1	700	50~150	800	1300	1450
PEFY-MS40VMA-A1	900	150~250	1000	1500	1850
PEFY-MS50, 63VMA-A1	1100	250~350	1200	1700	2100
PEFY-MS71, 80, 100, 125VMA-A1	1400	400~500	1500	2000	2150
PEFY-MS140VMA-A1	1600	500~600	1700	2200	2550

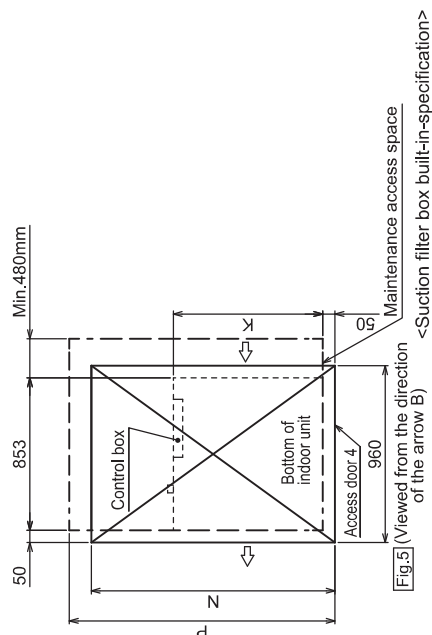


Fig. 5 (Viewed from the direction of the arrow B) <Suction filter box built-in-specification>

2. EXTERNAL DIMENSIONS

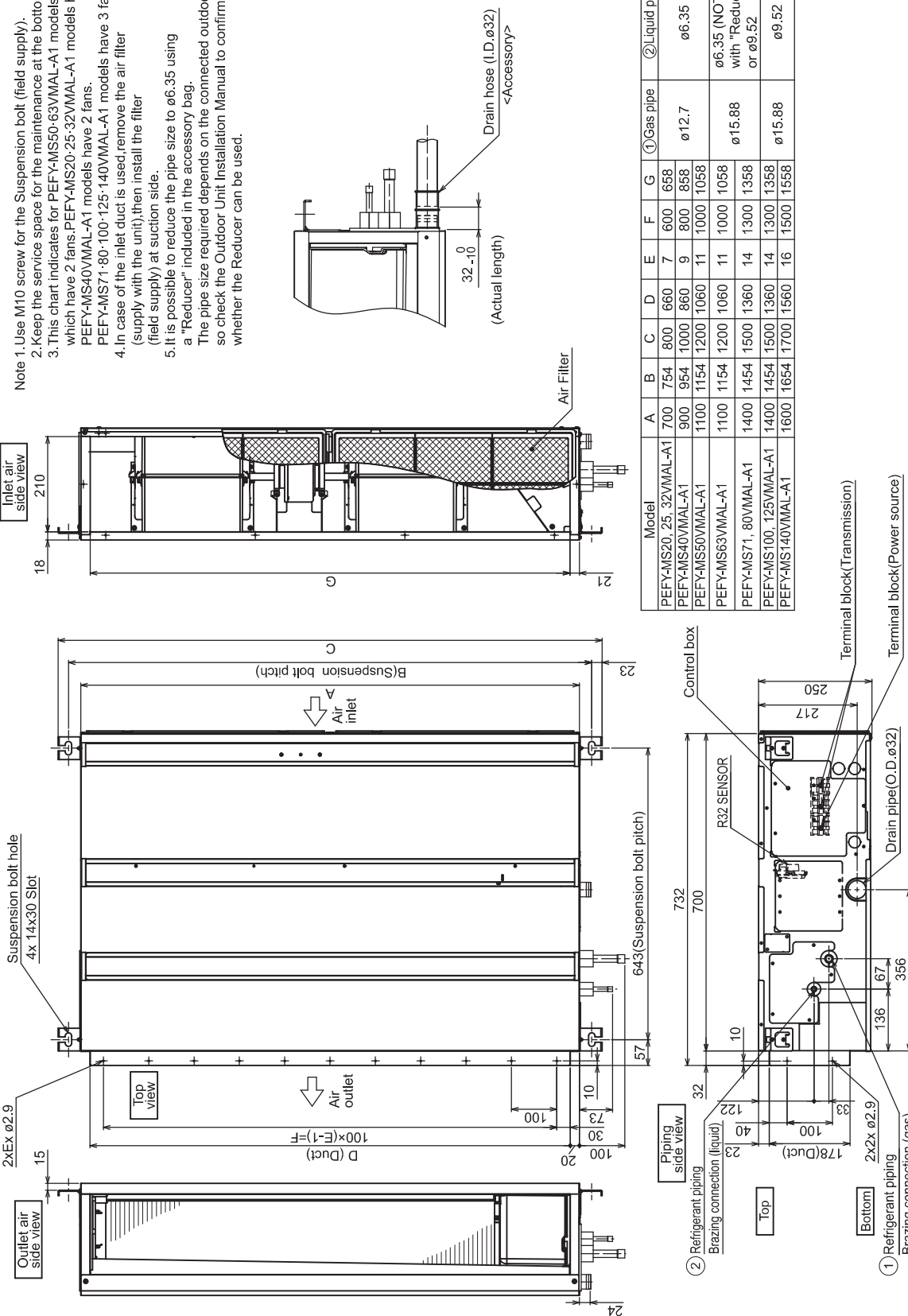
Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-A1

Unit: mm

- Note 1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-MS20-25-32VMAL-A1 models, which have 2 fans. PEFY-MS20-25-32VMAL-A1 models have 1 fan. PEFY-MS40VMAL-A1 models have 2 fans. PEFY-MS71-80-100-125-140VMAL-A1 models have 3 fans.
4. In case of the inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.
5. It is possible to reduce the pipe size to $\phi 6.35$ using a "Reducer" included in the accessory bag.
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.



Model	A	B	C	D	E	F	G	① Gas pipe	② Liquid pipe
PEFY-MS20, 25, 32VMAL-A1	700	754	800	660	7	600	658	$\phi 12.7$	$\phi 6.35$
PEFY-MS40VMAL-A1	900	954	1000	860	9	800	858	$\phi 12.7$	$\phi 6.35$
PEFY-MS50VMAL-A1	1100	1154	1200	1060	11	1000	1058	$\phi 15.88$	$\phi 6.35$ (NOTE 5) with "Reducer" or $\phi 9.52$
PEFY-MS63VMAL-A1	1100	1154	1200	1060	11	1000	1058	$\phi 15.88$	$\phi 9.52$
PEFY-MS71, 80VMAL-A1	1400	1454	1500	1360	14	1300	1358	$\phi 15.88$	$\phi 9.52$
PEFY-MS100, 125VMAL-A1	1400	1454	1500	1360	14	1300	1358	$\phi 15.88$	$\phi 9.52$
PEFY-MS140VMAL-A1	1600	1654	1700	1560	16	1500	1558	$\phi 15.88$	$\phi 9.52$

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-A1

Unit: mm

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, and control box in one of the following ways.
Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)
- Create access door 1 and 2 (450×450mm each) as shown in Fig.2.
- (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

- (2) When a space of less than 300mm is available below the unit between the unit and the ceiling.

(At least 20mm of space should be left below the unit as shown in Fig.3.)

- Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.

or

- Create access door 4 below the control box and the unit as shown in Fig.5.

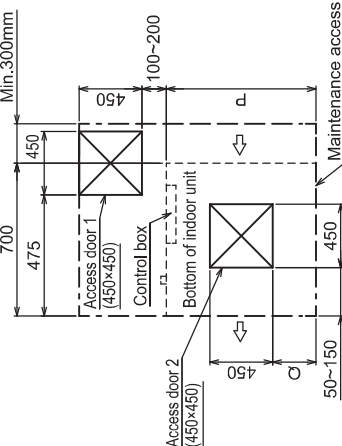
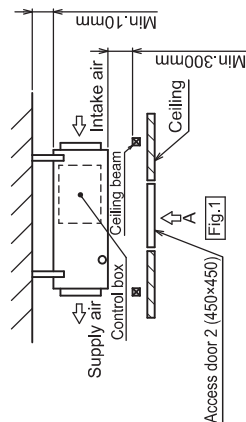


Fig.2 (Viewed from the direction of the arrow A)

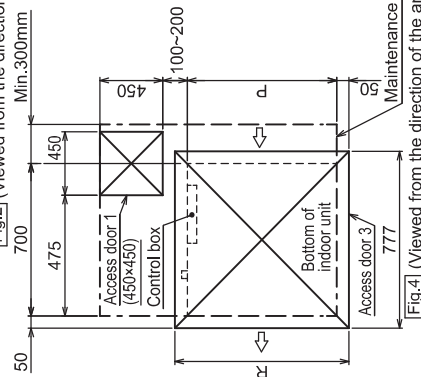
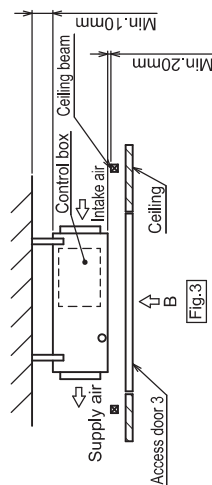


Fig.4 (Viewed from the direction of the arrow B)

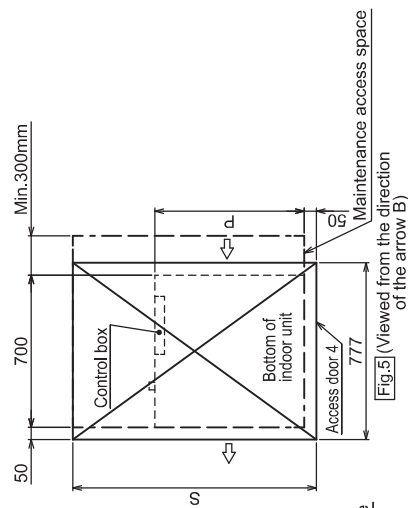
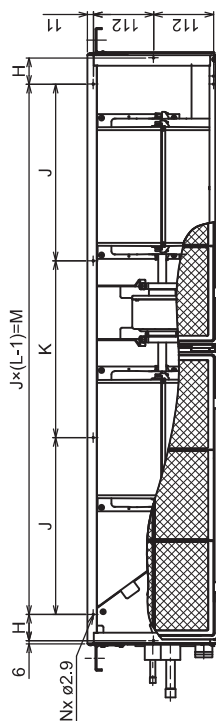


Fig.5 (Viewed from the direction of the arrow B)

Model	H	J	K	L	M	N	P	Q	R	S
PEFY-MS20, 25, 32VMAL-A1	44	150	300	4	780	10	700	50~150	800	1300
PEFY-MS40VMAL-A1	54	260	490	4	990	10	900	150~250	1000	1500
PEFY-MS60, 63VMAL-A1	49	330	490	4	990	10	1100	250~350	1200	1700
PEFY-MS71, 80, 100, 125VMAL-A1	54	320	540	5	1280	12	1400	400~500	1500	2000
PEFY-MS140VMAL-A1	54	370	540	5	1480	12	1600	500~600	1700	2200

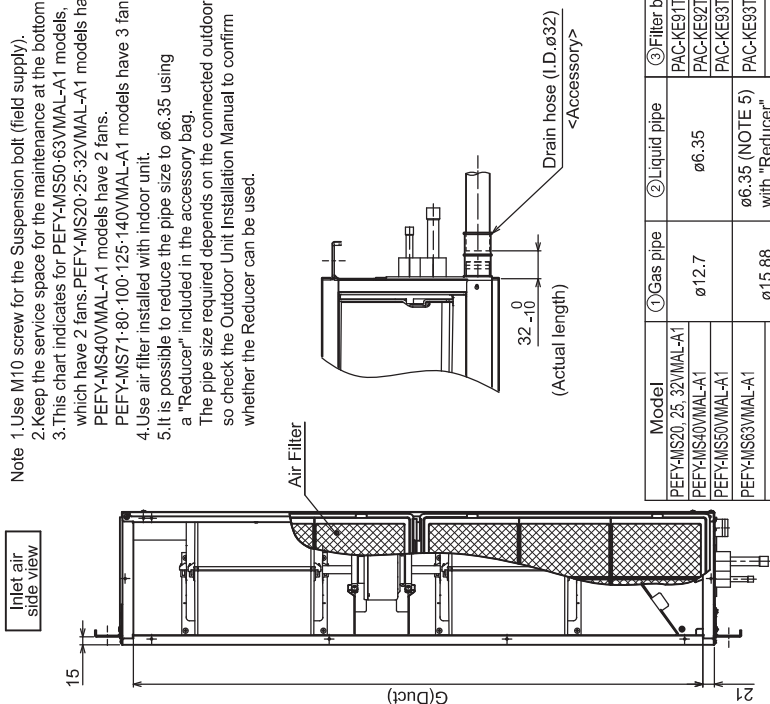
PEFY-MS-VMA(L)-A1

Unit: mm

Note

1. Use M10 screw for the Suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for PEFY-MS20-63VMA-A1 models, which have 2 fans. PEFY-MS20-25-32VMA-A1 models have 1 fan. PEFY-MS40VMA-A1 models have 2 fans. PEFY-MS71-90-100-125-140VMA-A1 models have 3 fans.
4. Use air filter installed with indoor unit.
5. It is possible to reduce the pipe size to φ6.35 using a "Reducer" included in the accessory bag.

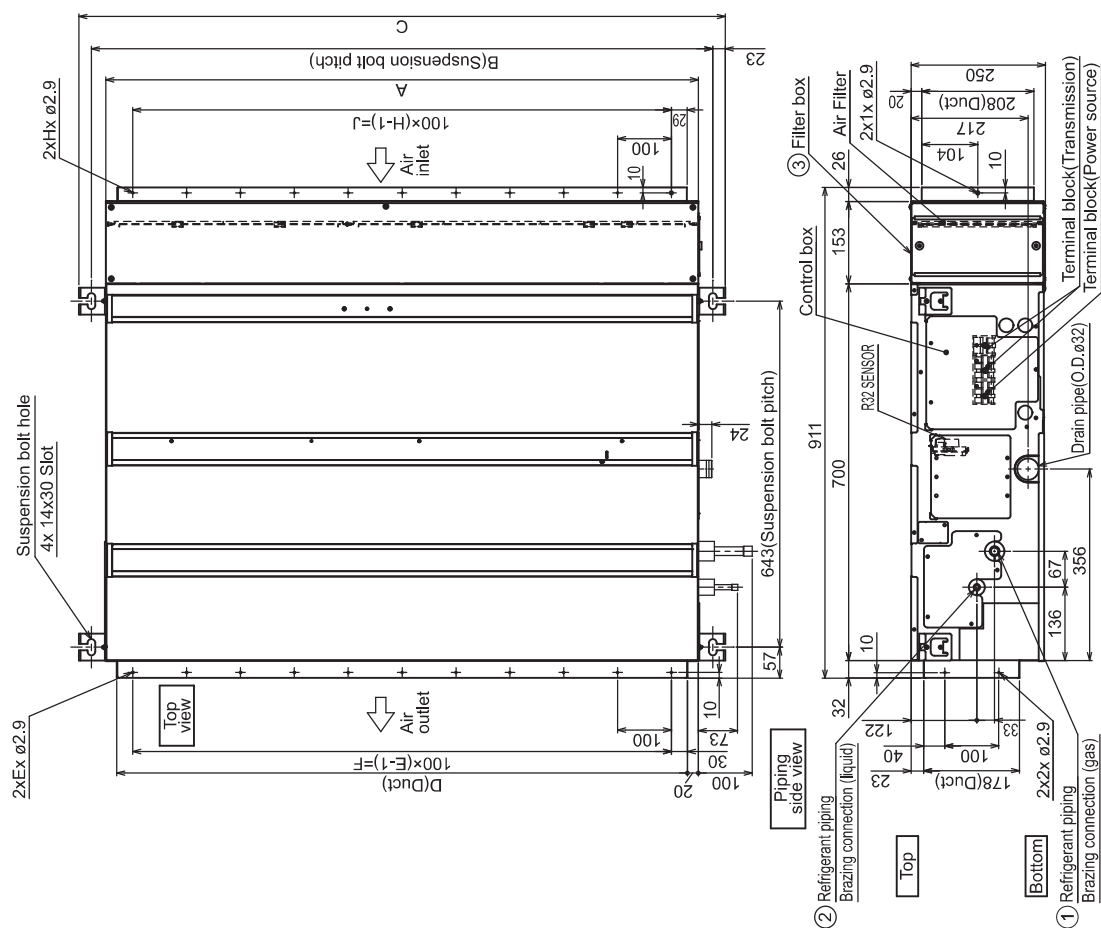
The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.



Model	① Gas pipe	② Liquid pipe	③ Filter box
PEFYMS20, 25, 32/MAL-A1	ø12.7	ø6.35	PAC-KE91TB-E
PEFYMS40/MAL-A1			PAC-KE92TB-E
PEFYMS50/MAL-A1			PAC-KE93TB-E
PEFYMS63/MAL-A1			PAC-KE93TB-E
PEFYMS71, 80/MAL-A1	ø15.88	ø6.35 (NOTE 5) with "Reducer" or ø9.52	PAC-KE94TB-E
PEFYMS100, 125/MAL-A1	ø15.88		PAC-KE94TB-E
PEFYMS140/MAL-A1			PAC-KE94TB-E
PEFYMS160/MAL-A1			PAC-KE94TB-E

Model	A	B	C	D	E	F	G	H	J
PEFYMS20_25_32VMA1-A1	700	754	800	660	7	600	658	7	600
PEFYMS30_40VMA1-A1	900	954	1000	860	9	800	858	9	800
PEFYMS50_63VMA1-A1	1100	1154	1200	1060	11	1000	1058	11	1000
PEFYMS71_80_100_125VMA1-A1	1400	1454	1500	1360	14	1300	1358	14	1300
PEFYMS101_110_130_160VMA1-A1	1600	1654	1700	1560	16	1500	1558	16	1500
PEFYMS140VMA1-A1	1800	1854	1900	1760	18	1700	1758	18	1700

<Suction filter box built-in-specification>



PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-A1 Suction filter box built-in-specification

Unit: mm

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, and control box in one of the following ways.
Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling, (Fig. 1)
 - Create access door 1 and 2 (450×450mm each) as shown in Fig. 2.
- (2) When a space of less than 300mm is available below the unit between the unit and the ceiling, (At least 20mm of space should be left below the unit as shown in Fig. 3.)
 - Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig. 4.
 - or
 - Create access door 4 below the control box and the unit as shown in Fig. 5.

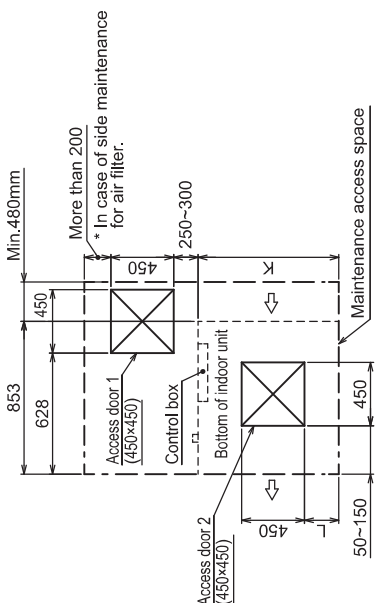
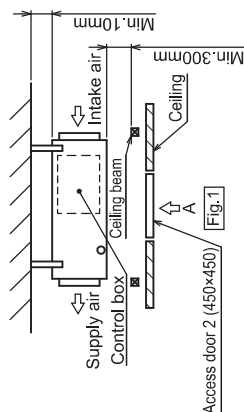


Fig. 2 (Viewed from the direction of the arrow A)

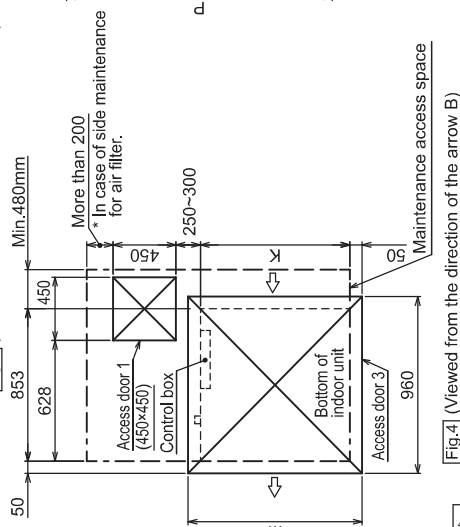


Fig. 4 (Viewed from the direction of the arrow B)

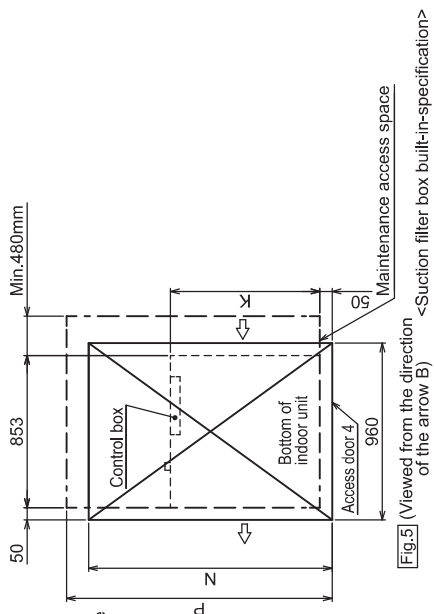
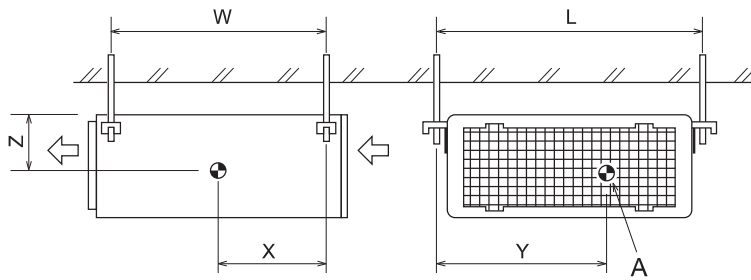


Fig. 5 (Viewed from the direction of the arrow B) <Suction filter box built-in-specification>

* Dimension 'P' is in case of side maintenance for air filter.

Model	K	L	M	N	P*
PEFY-MS20, 25, 32/VMAL-A1	700	50~150	800	1300	1450
PEFY-MS40/VMAL-A1	900	150~250	1000	1500	1850
PEFY-MS50, 63/VMAL-A1	1100	250~350	1200	1700	2100
PEFY-MS71, 80, 100, 125/VMAL-A1	1400	400~500	1500	2000	2150
PEFY-MS140/VMAL-A1	1600	500~600	1700	2200	2550

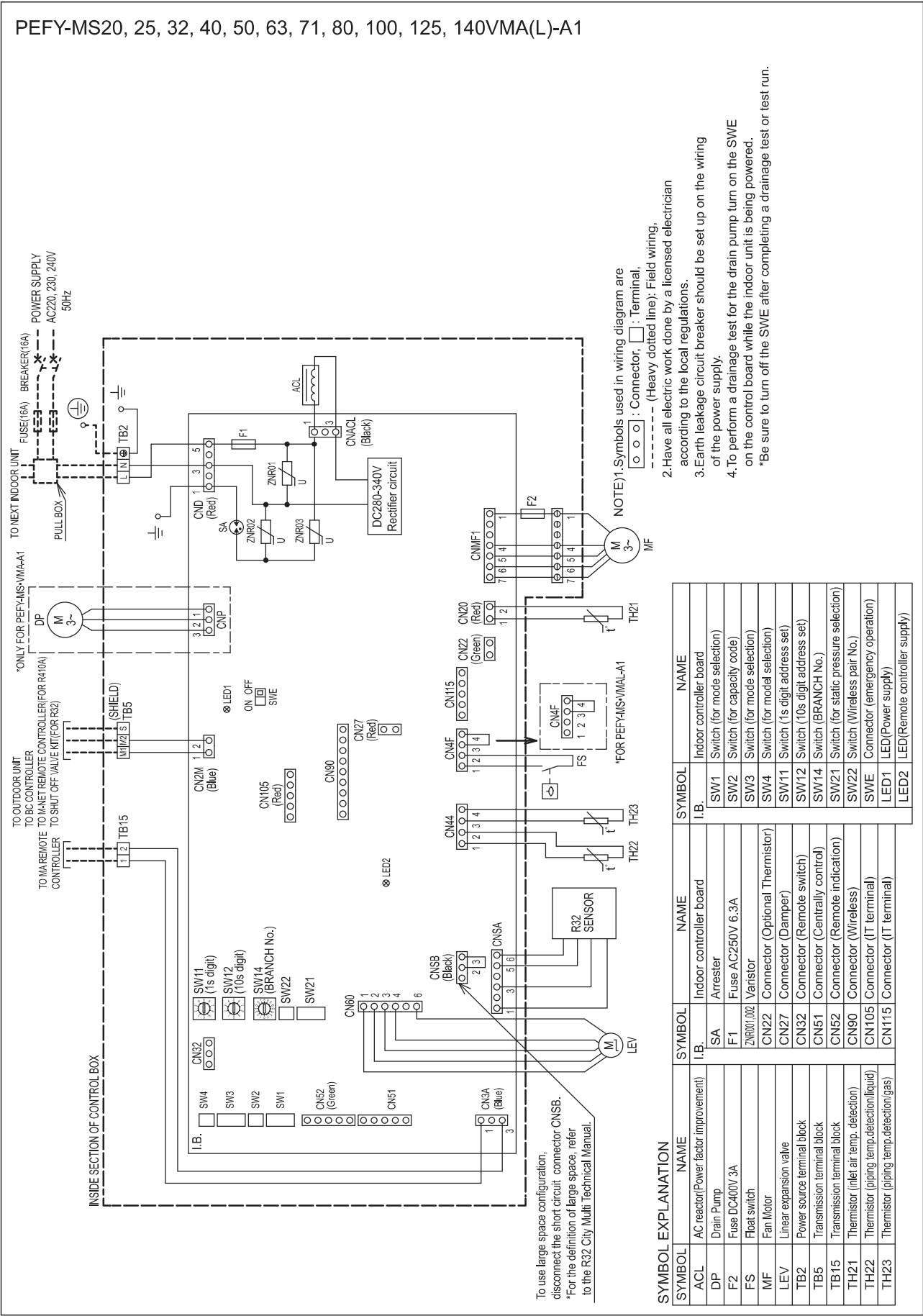
PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A1



A : Center of gravity

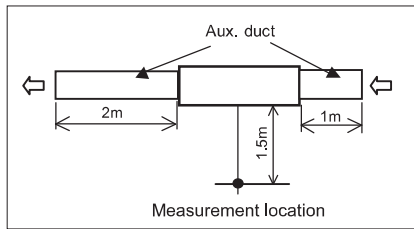
(mm) [in]

Model name	W	L	X	Y	Z
PEFY-MS20VMA(L)-A1	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 -13/16]	130 [5 -2/16]
PEFY-MS25VMA(L)-A1	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 -13/16]	130 [5 -2/16]
PEFY-MS32VMA(L)-A1	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 -13/16]	130 [5 -2/16]
PEFY-MS40VMA(L)-A1	643 [25 - 6/16]	954 [37 - 9/16]	340 [13 - 7/16]	375 [14 -13/16]	130 [5 -2/16]
PEFY-MS50VMA(L)-A1	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 -11/16]	130 [5 -2/16]
PEFY-MS63VMA(L)-A1	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 -11/16]	130 [5 -2/16]
PEFY-MS71VMA(L)-A1	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 -10/16]	130 [5 -2/16]
PEFY-MS80VMA(L)-A1	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 -10/16]	130 [5 -2/16]
PEFY-MS100VMA(L)-A1	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 -10/16]	130 [5 -2/16]
PEFY-MS125VMA(L)-A1	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 -10/16]	130 [5 -2/16]
PEFY-MS140VMA(L)-A1	643 [25 - 6/16]	1654 [65 - 2/16]	332 [13 - 2/16]	725 [28 -9/16]	130 [5 -2/16]



5-1. Sound levels

PEFY-MS-VMA(L)-A1

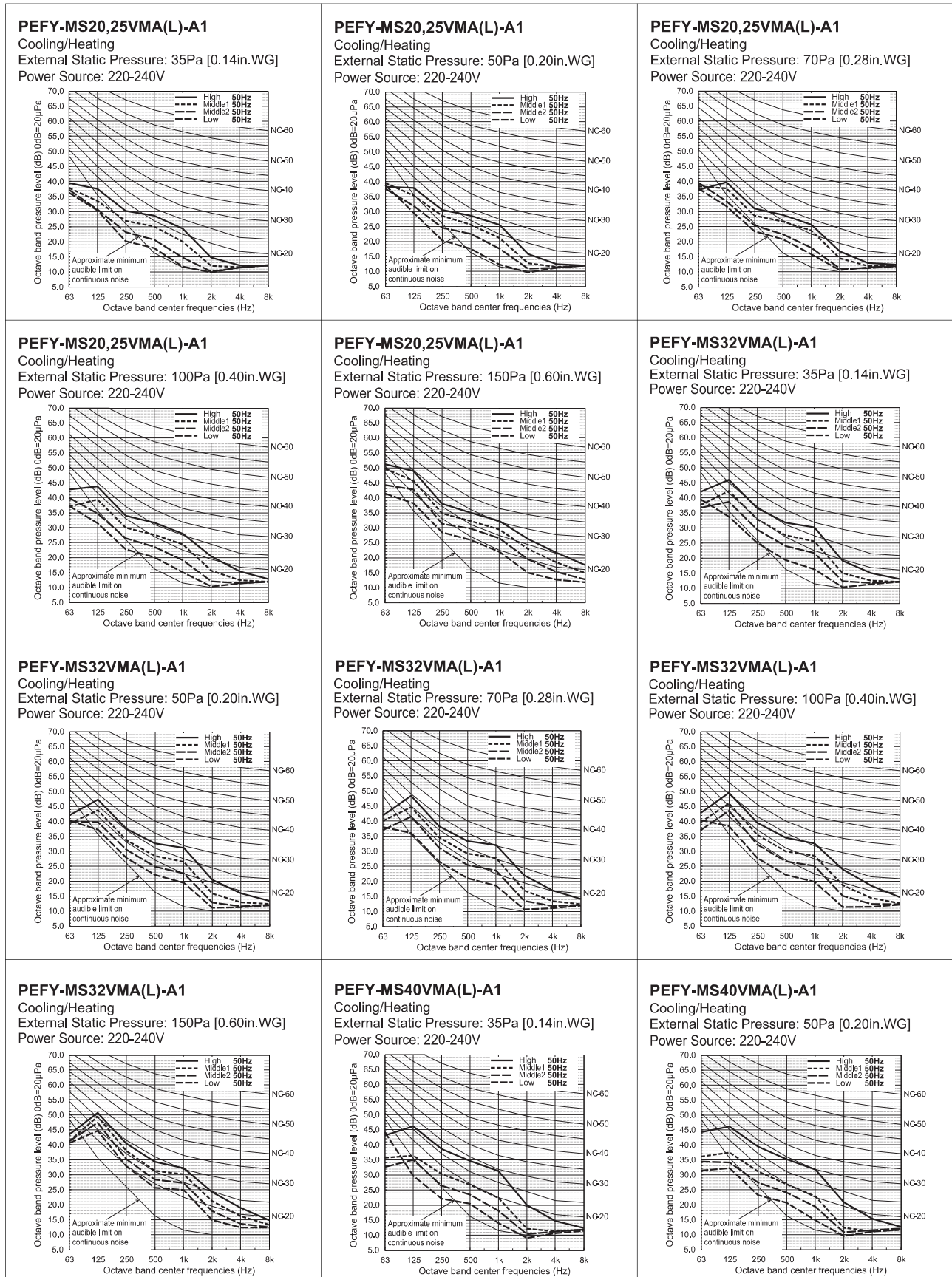


* Measured in anechoic room.

Sound level at anechoic room: Low-Mid2-Mid1-High

Model		Sound level dB (A)					
		35Pa	40Pa	50Pa	70Pa	100Pa	150Pa
PEFY-MS20, 25VMA(L)-A1	Cooling	21.5-23-26.5-30	-	21.5-24.5-27.5-30.5	23.5-25-29-31	23-26-30-34	28.5-32.5-35.5-38.5
	Heating	21.5-23-26.5-30	-	21.5-24.5-27.5-30.5	23.5-25-29-31	23-26-30-34	28.5-32.5-35.5-38.5
PEFY-MS32VMA(L)-A1	Cooling	24.0-28.0-31.5-35.5	-	26.5-29.0-32.5-36.5	25.5-30.0-33.5-37.5	27.0-31.5-34.5-38.5	32.0-34.5-37.0-39.0
	Heating	24.0-28.0-31.5-35.5	-	26.5-29.0-32.5-36.5	25.5-30.0-33.5-37.5	27.0-31.5-34.5-38.5	32.0-34.5-37.0-39.0
PEFY-MS40VMA(L)-A1	Cooling	23.5-25.5-28.5-37	-	23-26-29-37.5	24-27-32-39	26-30.5-33.5-39.5	33-36.5-38.5-41
	Heating	23.5-25.5-28.5-37	-	23-26-29-37.5	24-27-32-39	26-30.5-33.5-39.5	33-36.5-38.5-41
PEFY-MS50VMA(L)-A1	Cooling	22-24-26.5-37	-	22.5-24.5-27.5-37.5	22.5-25.5-28-38.5	22.5-26.5-29.5-40	31.5-34.5-37.5-40.5
	Heating	22-24-26.5-37	-	22.5-24.5-27.5-37.5	22.5-25.5-28-38.5	22.5-26.5-29.5-40	31.5-34.5-37.5-40.5
PEFY-MS63VMA(L)-A1	Cooling	23-26-30-37.5	-	23-26.5-31-38	24-28.5-31.5-39	24.5-28.5-32.5-40	31.5-35-38-41
	Heating	23-26-30-41.5	-	23-26.5-31-41	24-28.5-31.5-40.5	24.5-28.5-32.5-41	31.5-35-38-41
PEFY-MS71, 80VMA(L)-A1	Cooling	-	22-25-27.5-38.5	21.5-25-28.5-39	22.5-26-29.5-40.5	23-27.5-31-42.5	33-36.5-40-42
	Heating	-	22-25-27.5-40.5	21.5-25-28.5-41.5	22.5-26-29.5-42.5	23-27.5-31-43	33-36.5-40-42
PEFY-MS100VMA(L)-A1	Cooling	-	29.5-34-37.5-40	29.5-34.5-37.5-41	31-35.5-38.5-42	32.5-37-40-43	36.5-39.5-43-45.5
	Heating	-	29.5-34-37.5-40	29.5-34.5-37.5-41	31-35.5-38.5-42	32.5-37-40-43	36.5-39.5-43-45.5
PEFY-MS125VMA(L)-A1	Cooling	-	31-36-38.5-40.5	31.5-36.5-38.5-40.5	34-37.5-39.5-42	34.5-39-41.5-43	37-40.5-44-46.5
	Heating	-	31-36-38.5-40.5	31.5-36.5-38.5-40.5	34-37.5-39.5-42	34.5-39-41.5-43	37-40.5-44-46.5
PEFY-MS140VMA(L)-A1	Cooling	-	33.5-37.5-40.5-42.5	34-38-40.5-43	34.5-39-41-43.5	35.5-39.5-42.5-45	39.5-42-45-47
	Heating	-	33.5-37.5-40.5-42.5	34-38-40.5-43	34.5-39-41-43.5	35.5-39.5-42.5-45	39.5-42-45-47

5-2. NC curves

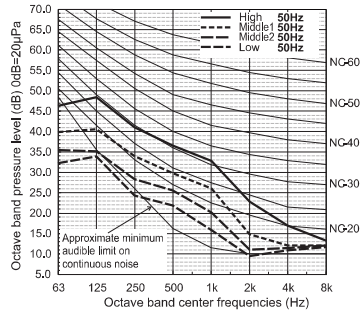


PEFY-MS40VMA(L)-A1

Cooling/Heating

External Static Pressure: 70Pa [0.28in.WG]

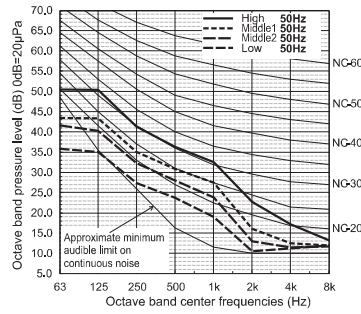
Power Source: 220-240V

**PEFY-MS40VMA(L)-A1**

Cooling/Heating

External Static Pressure: 100Pa [0.40in.WG]

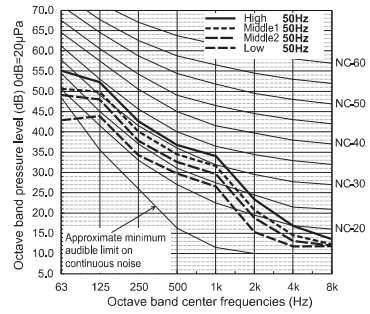
Power Source: 220-240V

**PEFY-MS40VMA(L)-A1**

Cooling/Heating

External Static Pressure: 150Pa [0.60in.WG]

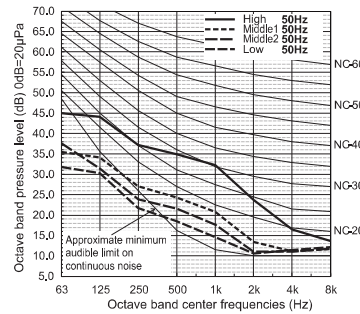
Power Source: 220-240V

**PEFY-MS50VMA(L)-A1**

Cooling/Heating

External Static Pressure: 35Pa [0.14in.WG]

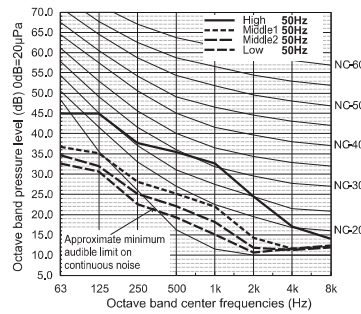
Power Source: 220-240V

**PEFY-MS50VMA(L)-A1**

Cooling/Heating

External Static Pressure: 50Pa [0.20in.WG]

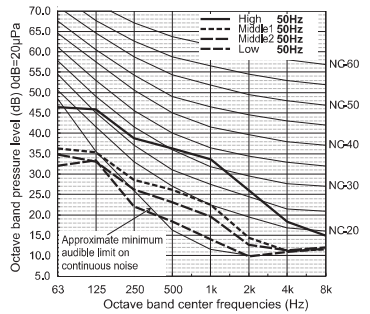
Power Source: 220-240V

**PEFY-MS50VMA(L)-A1**

Cooling/Heating

External Static Pressure: 70Pa [0.28in.WG]

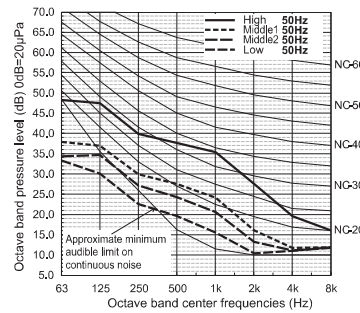
Power Source: 220-240V

**PEFY-MS50VMA(L)-A1**

Cooling/Heating

External Static Pressure: 100Pa [0.40in.WG]

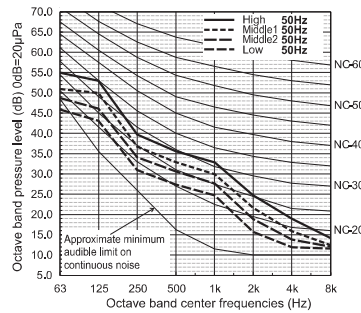
Power Source: 220-240V

**PEFY-MS50VMA(L)-A1**

Cooling/Heating

External Static Pressure: 150Pa [0.60in.WG]

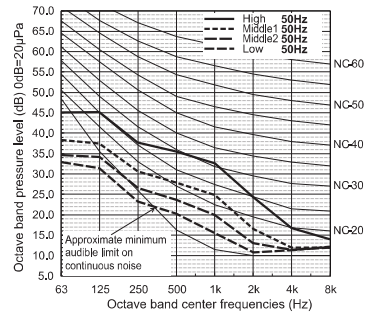
Power Source: 220-240V

**PEFY-MS63VMA(L)-A1**

Cooling

External Static Pressure: 35Pa [0.14in.WG]

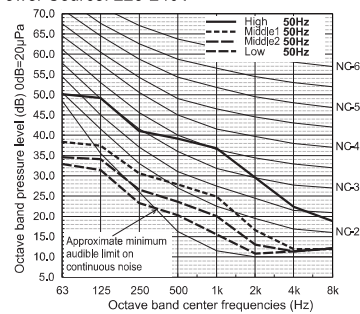
Power Source: 220-240V

**PEFY-MS63VMA(L)-A1**

Heating

External Static Pressure: 35Pa [0.14in.WG]

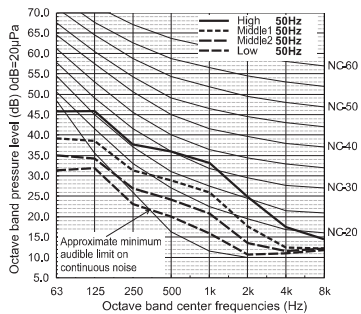
Power Source: 220-240V

**PEFY-MS63VMA(L)-A1**

Cooling

External Static Pressure: 50Pa [0.20in.WG]

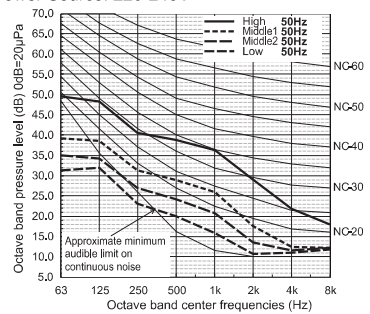
Power Source: 220-240V

**PEFY-MS63VMA(L)-A1**

Heating

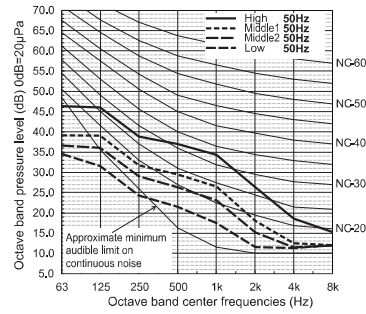
External Static Pressure: 50Pa [0.20in.WG]

Power Source: 220-240V

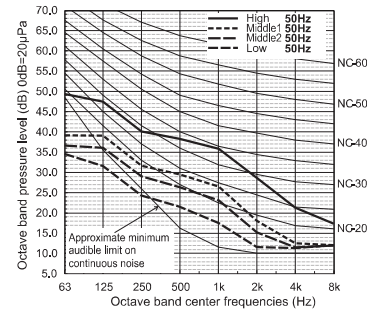


PEFY-MS63VMA(L)-A1

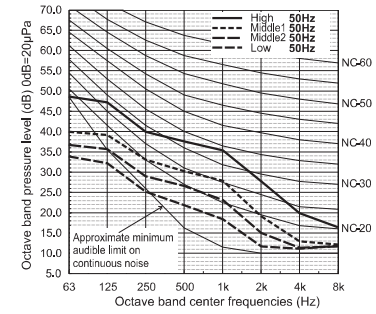
Cooling

External Static Pressure: 70Pa [0.28in.WG]
Power Source: 220-240V**PEFY-MS63VMA(L)-A1**

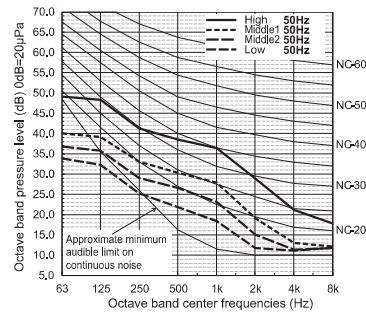
Heating

External Static Pressure: 70Pa [0.28in.WG]
Power Source: 220-240V**PEFY-MS63VMA(L)-A1**

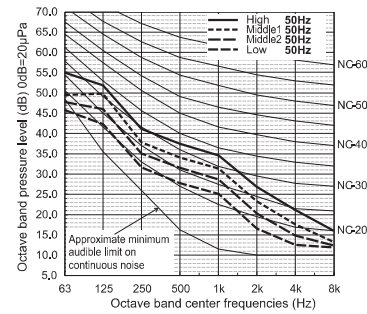
Cooling

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V**PEFY-MS63VMA(L)-A1**

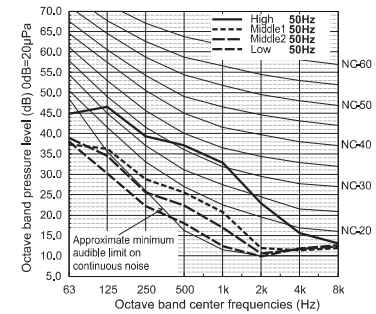
Heating

External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V**PEFY-MS63VMA(L)-A1**

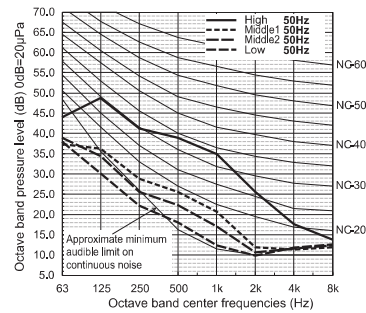
Cooling/Heating

External Static Pressure: 150Pa [0.60in.WG]
Power Source: 220-240V**PEFY-MS71,80VMA(L)-A1**

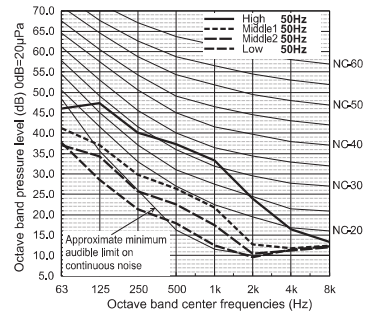
Cooling

External Static Pressure: 40Pa [0.16in.WG]
Power Source: 220-240V**PEFY-MS71,80VMA(L)-A1**

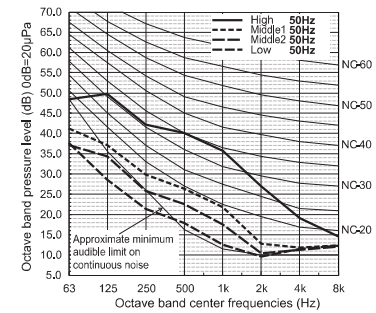
Heating

External Static Pressure: 40Pa [0.16in.WG]
Power Source: 220-240V**PEFY-MS71,80VMA(L)-A1**

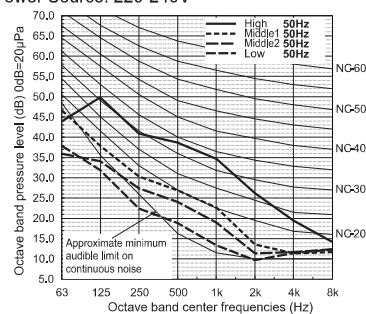
Cooling

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V**PEFY-MS71,80VMA(L)-A1**

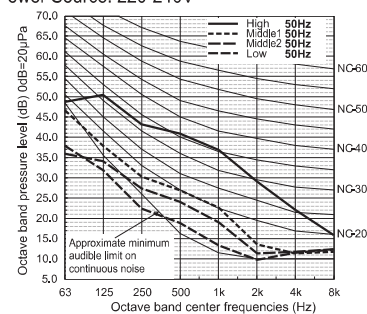
Heating

External Static Pressure: 50Pa [0.20in.WG]
Power Source: 220-240V**PEFY-MS71,80VMA(L)-A1**

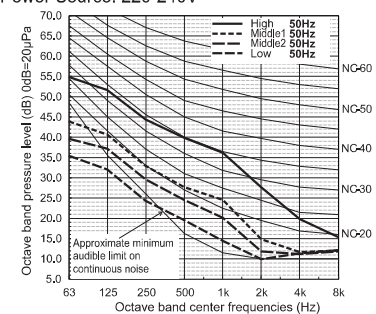
Cooling

External Static Pressure: 70Pa [0.28in.WG]
Power Source: 220-240V**PEFY-MS71,80VMA(L)-A1**

Heating

External Static Pressure: 70Pa [0.28in.WG]
Power Source: 220-240V**PEFY-MS71,80VMA(L)-A1**

Cooling

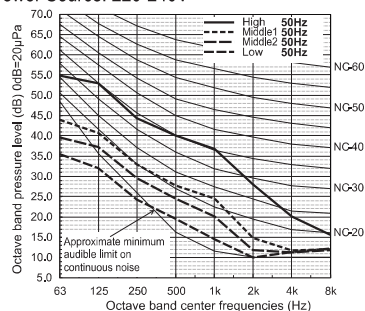
External Static Pressure: 100Pa [0.40in.WG]
Power Source: 220-240V

PEFY-MS71,80VMA(L)-A1

Heating

External Static Pressure: 100Pa [0.40in.WG]

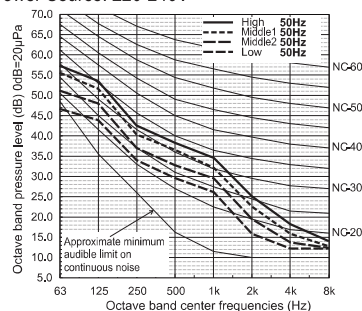
Power Source: 220-240V

**PEFY-MS71,80VMA(L)-A1**

Cooling/Heating

External Static Pressure: 150Pa [0.60in.WG]

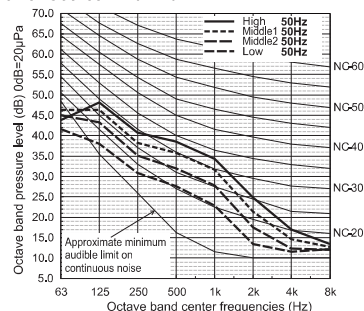
Power Source: 220-240V

**PEFY-MS100VMA(L)-A1**

Cooling/Heating

External Static Pressure: 40Pa [0.16in.WG]

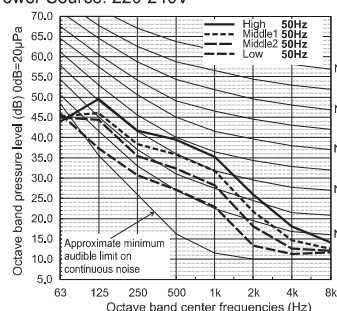
Power Source: 220-240V

**PEFY-MS100VMA(L)-A1**

Cooling/Heating

External Static Pressure: 50Pa [0.20in.WG]

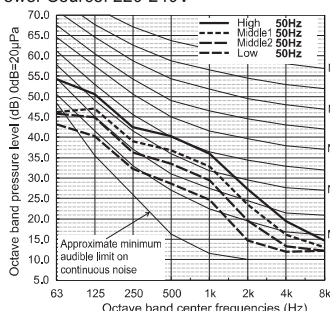
Power Source: 220-240V

**PEFY-MS100VMA(L)-A1**

Cooling/Heating

External Static Pressure: 70Pa [0.28in.WG]

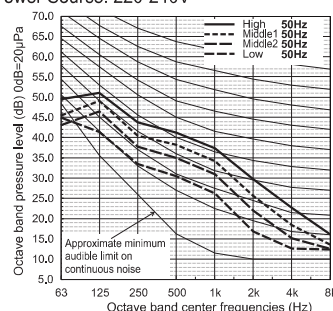
Power Source: 220-240V

**PEFY-MS100VMA(L)-A1**

Cooling/Heating

External Static Pressure: 100Pa [0.40in.WG]

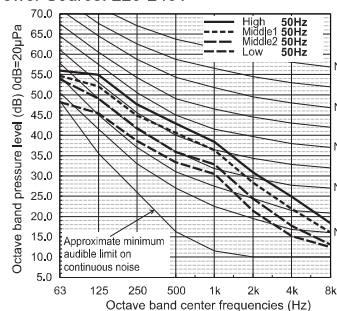
Power Source: 220-240V

**PEFY-MS100VMA(L)-A1**

Cooling/Heating

External Static Pressure: 150Pa [0.60in.WG]

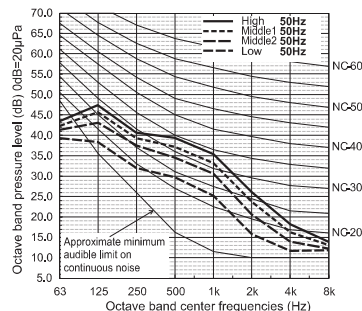
Power Source: 220-240V

**PEFY-MS125VMA(L)-A1**

Cooling/Heating

External Static Pressure: 40Pa [0.16in.WG]

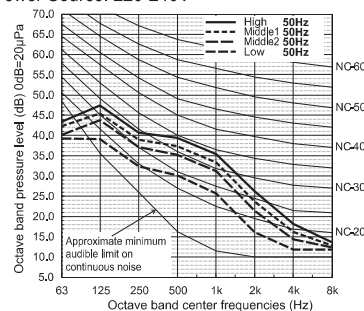
Power Source: 220-240V

**PEFY-MS125VMA(L)-A1**

Cooling/Heating

External Static Pressure: 50Pa [0.20in.WG]

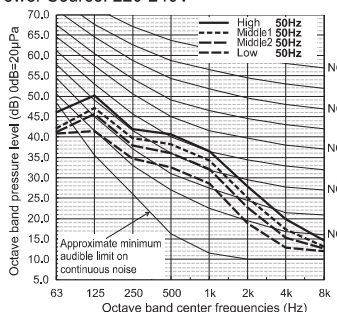
Power Source: 220-240V

**PEFY-MS125VMA(L)-A1**

Cooling/Heating

External Static Pressure: 70Pa [0.28in.WG]

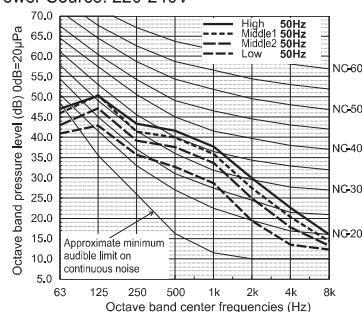
Power Source: 220-240V

**PEFY-MS125VMA(L)-A1**

Cooling/Heating

External Static Pressure: 100Pa [0.40in.WG]

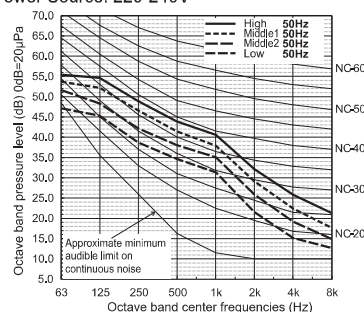
Power Source: 220-240V

**PEFY-MS125VMA(L)-A1**

Cooling/Heating

External Static Pressure: 150Pa [0.60in.WG]

Power Source: 220-240V

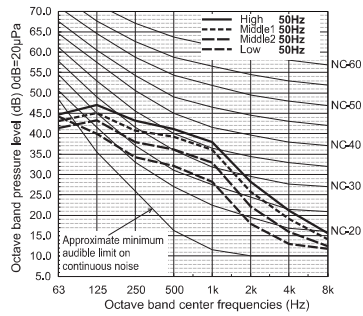


PEFY-MS140VMA(L)-A1

Cooling/Heating

External Static Pressure: 40Pa [0.16in.WG]

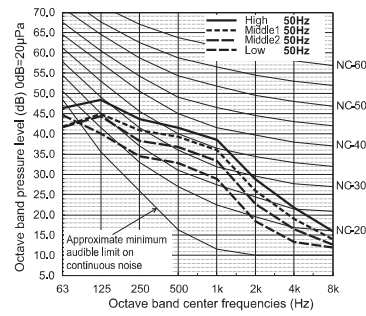
Power Source: 220-240V

**PEFY-MS140VMA(L)-A1**

Cooling/Heating

External Static Pressure: 50Pa [0.20in.WG]

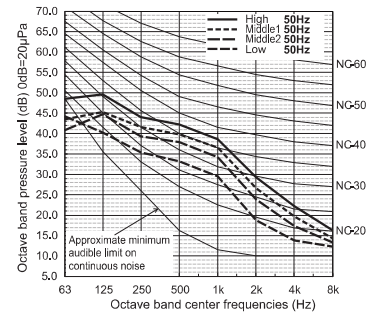
Power Source: 220-240V

**PEFY-MS140VMA(L)-A1**

Cooling/Heating

External Static Pressure: 70Pa [0.28in.WG]

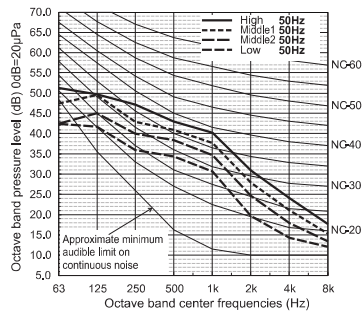
Power Source: 220-240V

**PEFY-MS140VMA(L)-A1**

Cooling/Heating

External Static Pressure: 100Pa [0.40in.WG]

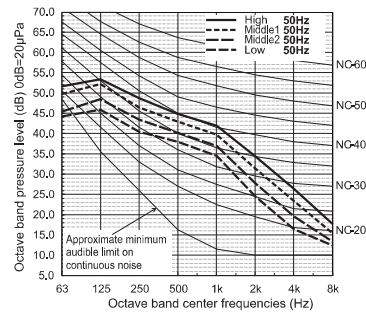
Power Source: 220-240V

**PEFY-MS140VMA(L)-A1**

Cooling/Heating

External Static Pressure: 150Pa [0.60in.WG]

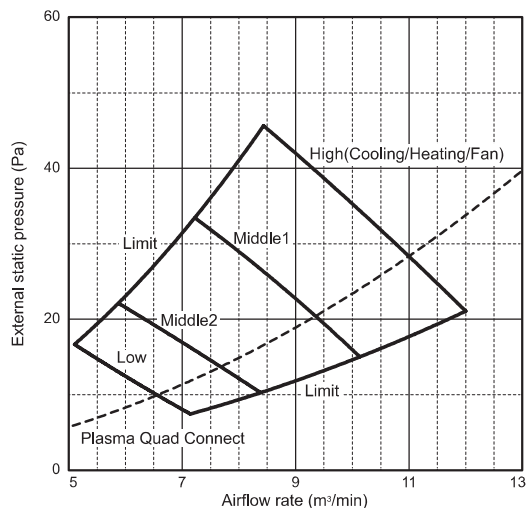
Power Source: 220-240V



PEFY-MS20, 25VMA(L)-A1

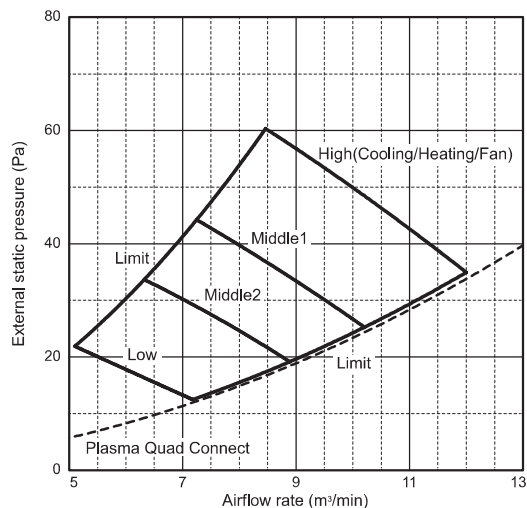
External static pressure : 35Pa

Power source : 220-240V

**PEFY-MS20, 25VMA(L)-A1**

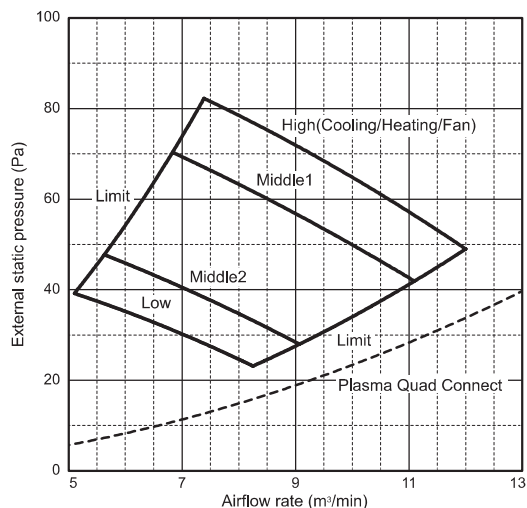
External static pressure : 50Pa

Power source : 220-240V

**PEFY-MS20, 25VMA(L)-A1**

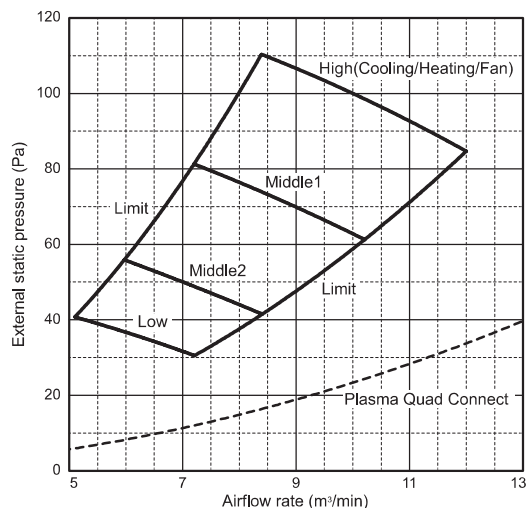
External static pressure : 70Pa

Power source : 220-240V

**PEFY-MS20, 25VMA(L)-A1**

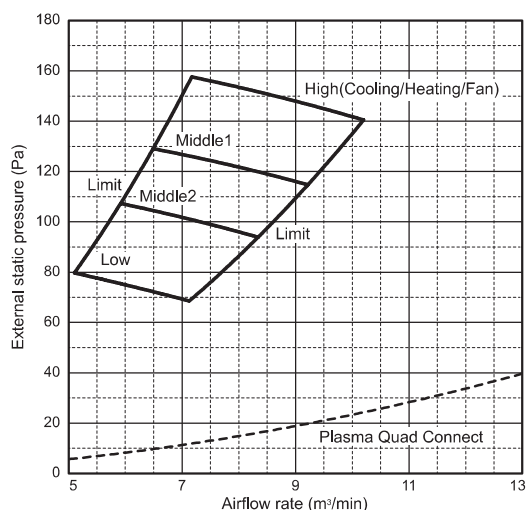
External static pressure : 100Pa

Power source : 220-240V

**PEFY-MS20, 25VMA(L)-A1**

External static pressure : 150Pa

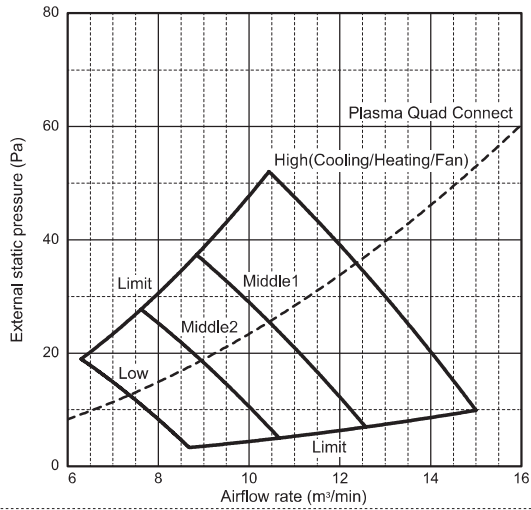
Power source : 220-240V



♦The fan characteristic curves (solid line) are the data with no optional parts attached.

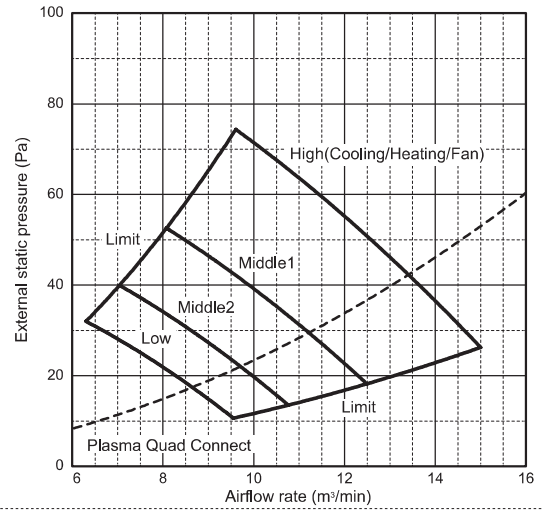
PEFY-MS32VMA(L)-A1

External static pressure : 35Pa
Power source : 220-240V



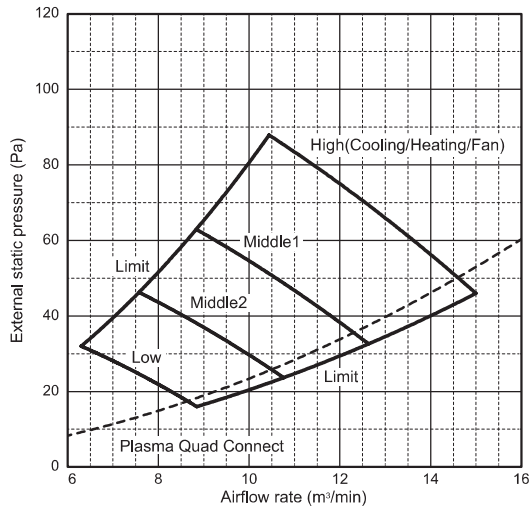
PEFY-MS32VMA(L)-A1

External static pressure : 50Pa
Power source : 220-240V



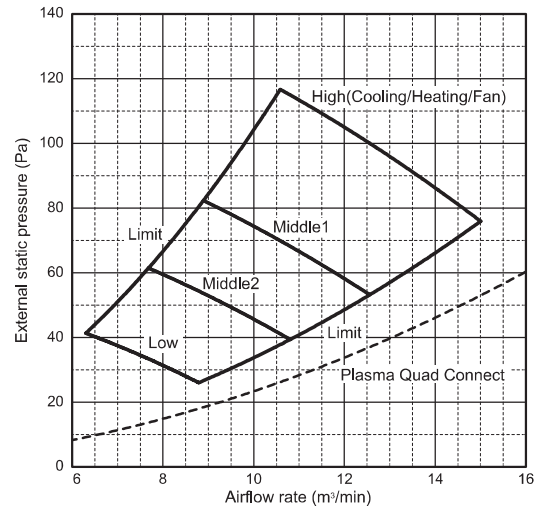
PEFY-MS32VMA(L)-A1

External static pressure : 70Pa
Power source : 220-240V



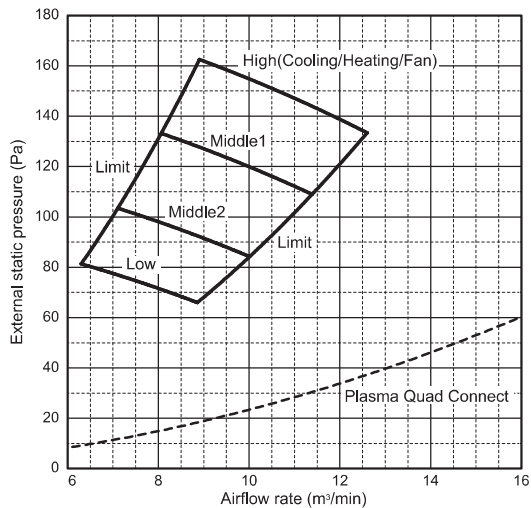
PEFY-MS32VMA(L)-A1

External static pressure : 100Pa
Power source : 220-240V



PEFY-MS32VMA(L)-A1

External static pressure : 150Pa
Power source : 220-240V

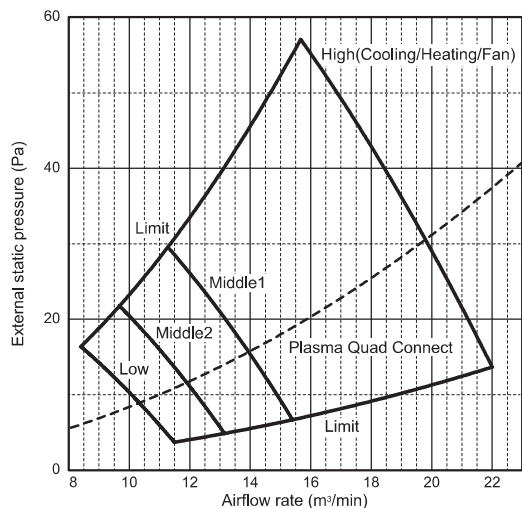


♦The fan characteristic curves (solid line) are the data with no optional parts attached.

PEFY-MS40VMA(L)-A1

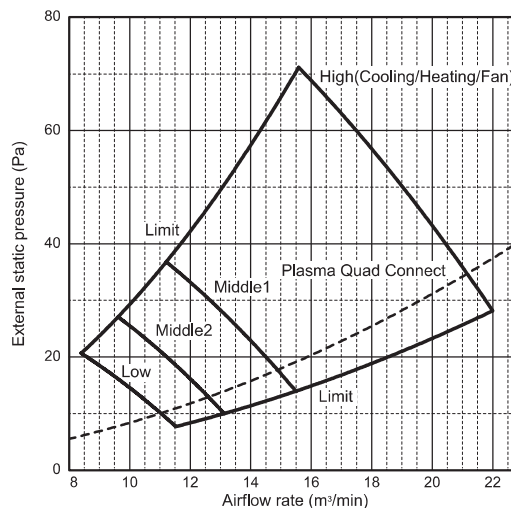
External static pressure : 35Pa

Power source : 220-240V

**PEFY-MS40VMA(L)-A1**

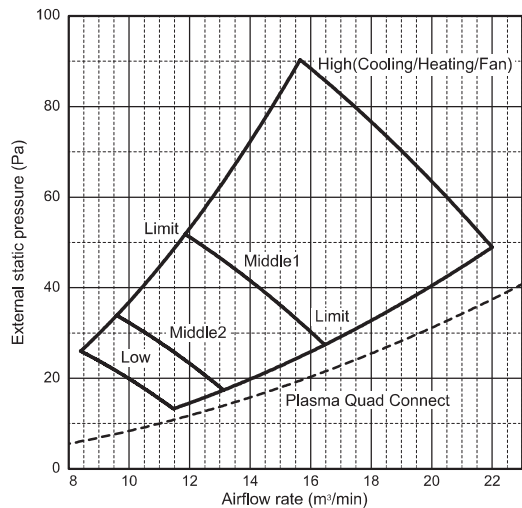
External static pressure : 50Pa

Power source : 220-240V

**PEFY-MS40VMA(L)-A1**

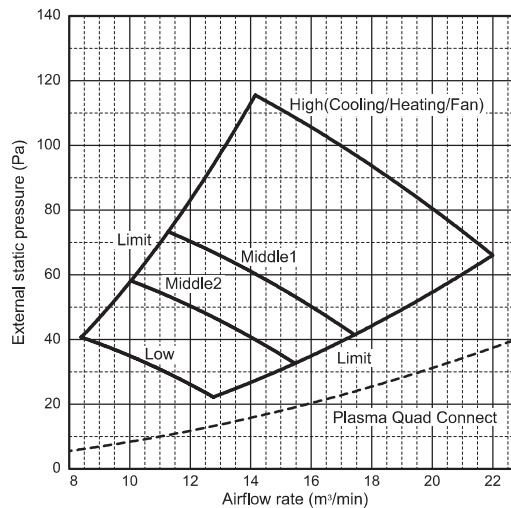
External static pressure : 70Pa

Power source : 220-240V

**PEFY-MS40VMA(L)-A1**

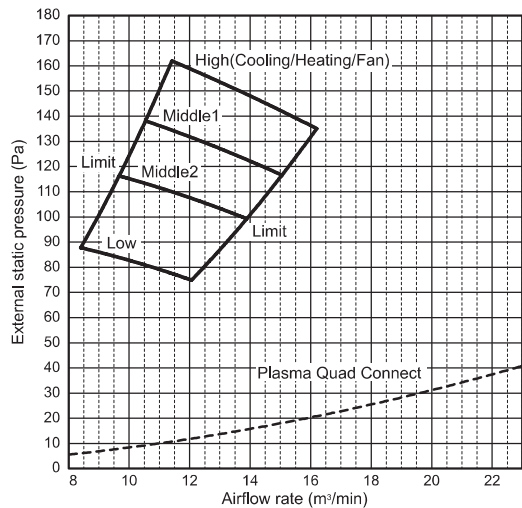
External static pressure : 100Pa

Power source : 220-240V

**PEFY-MS40VMA(L)-A1**

External static pressure : 150Pa

Power source : 220-240V

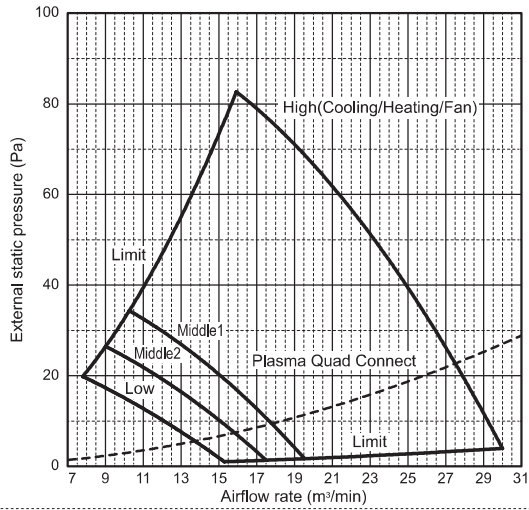


♦The fan characteristic curves (solid line) are the data with no optional parts attached.

PEFY-MS50VMA(L)-A1

External static pressure : 35Pa

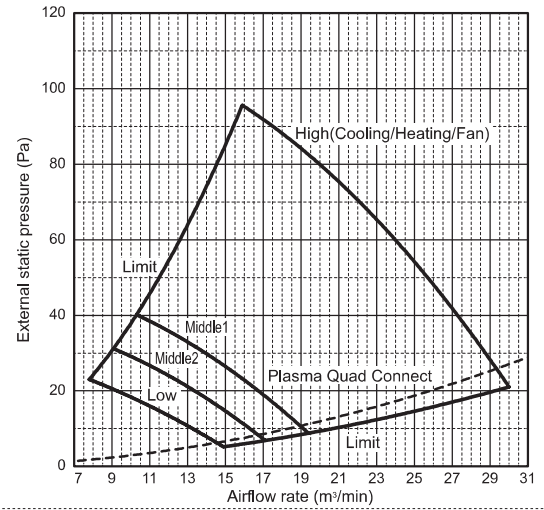
Power source : 220-240V



PEFY-MS50VMA(L)-A1

External static pressure : 50Pa

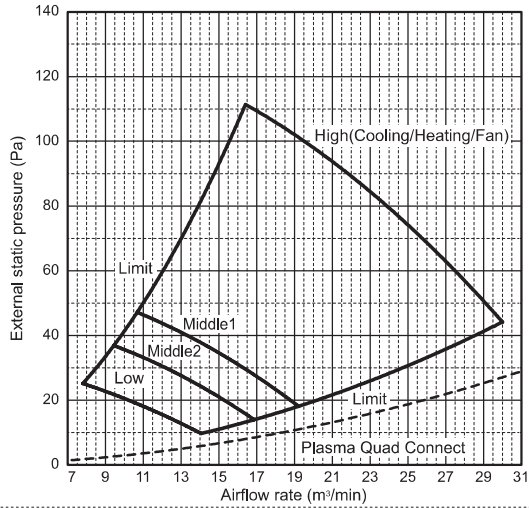
Power source : 220-240V



PEFY-MS50VMA(L)-A1

External static pressure : 70Pa

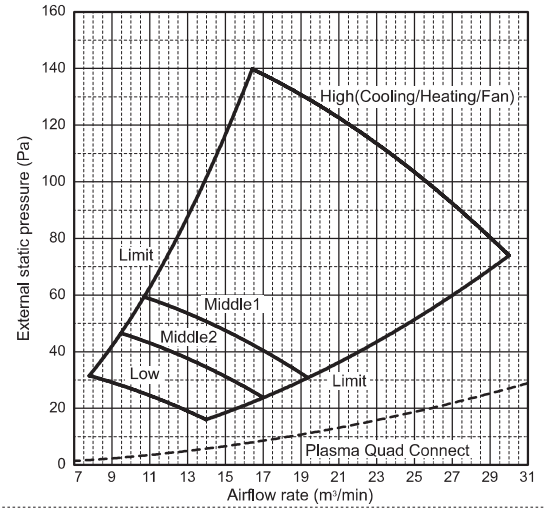
Power source : 220-240V



PEFY-MS50VMA(L)-A1

External static pressure : 100Pa

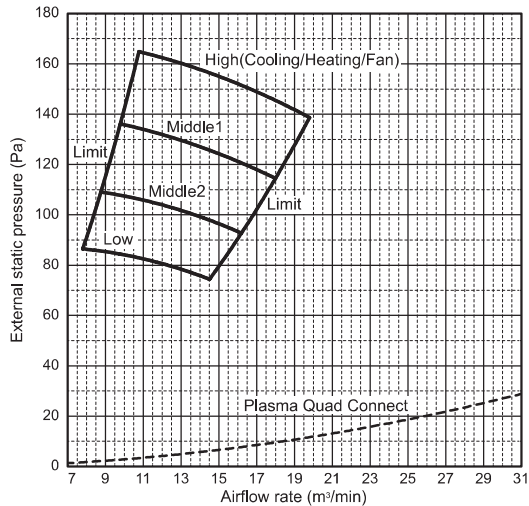
Power source : 220-240V



PEFY-MS50VMA(L)-A1

External static pressure : 150Pa

Power source : 220-240V

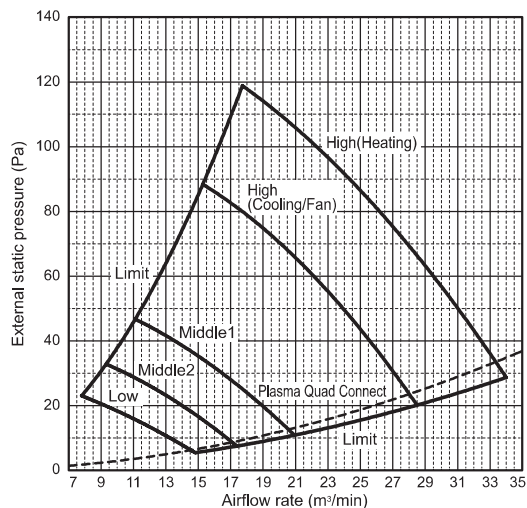


♦The fan characteristic curves (solid line) are the data with no optional parts attached.

PEFY-MS63VMA(L)-A1

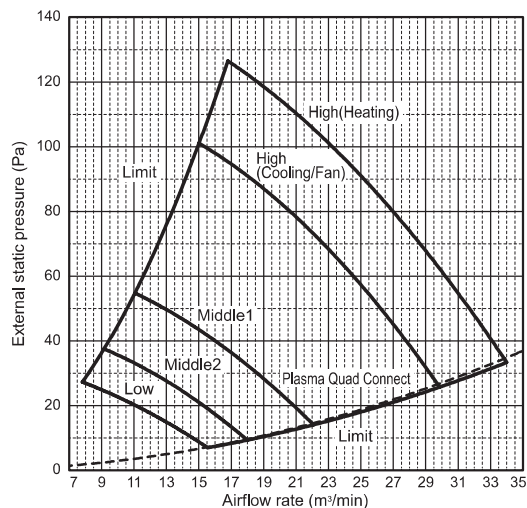
External static pressure : 35Pa

Power source : 220-240V

**PEFY-MS63VMA(L)-A1**

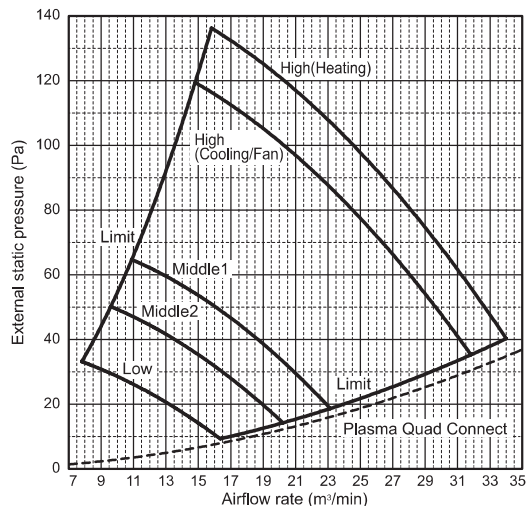
External static pressure : 50Pa

Power source : 220-240V

**PEFY-MS63VMA(L)-A1**

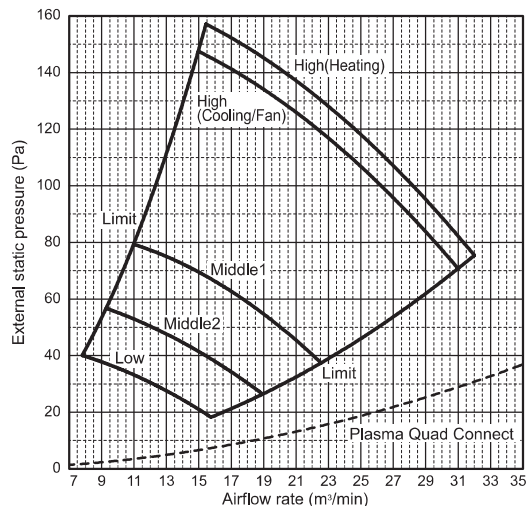
External static pressure : 70Pa

Power source : 220-240V

**PEFY-MS63VMA(L)-A1**

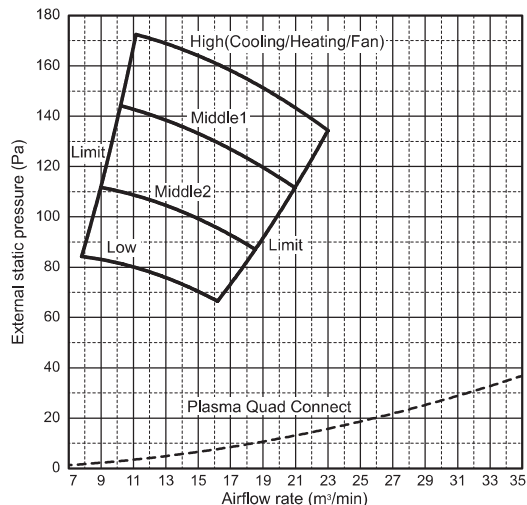
External static pressure : 100Pa

Power source : 220-240V

**PEFY-MS63VMA(L)-A1**

External static pressure : 150Pa

Power source : 220-240V

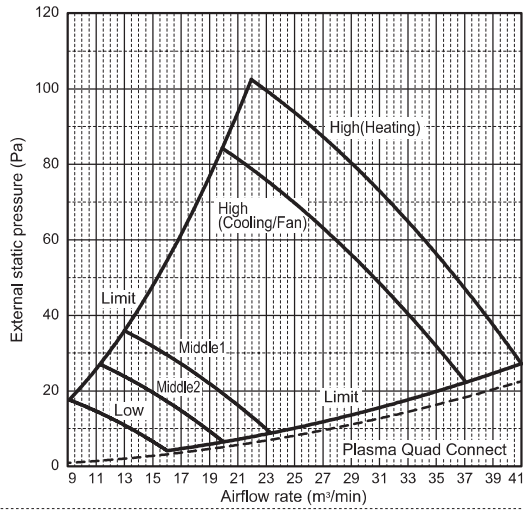


♦The fan characteristic curves (solid line) are the data with no optional parts attached.

PEFY-MS71, 80VMA(L)-A1

External static pressure : 40Pa

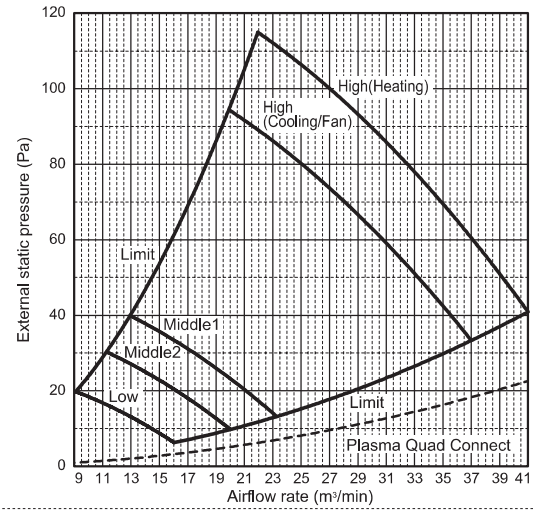
Power source : 220-240V



PEFY-MS71, 80VMA(L)-A1

External static pressure : 50Pa

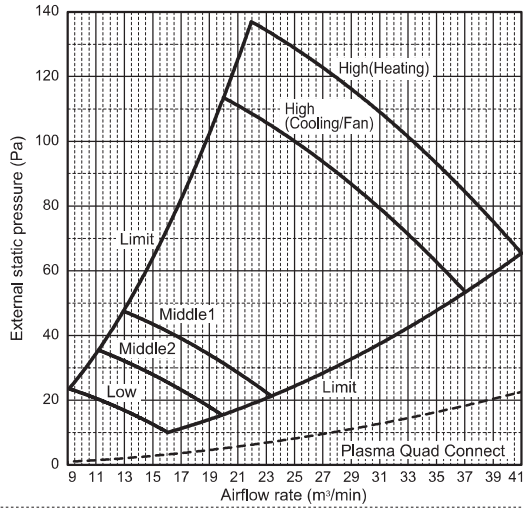
Power source : 220-240V



PEFY-MS71, 80VMA(L)-A1

External static pressure : 70Pa

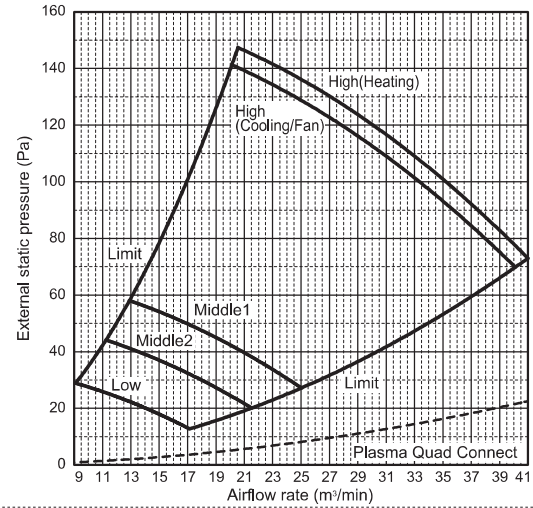
Power source : 220-240V



PEFY-MS71, 80VMA(L)-A1

External static pressure : 100Pa

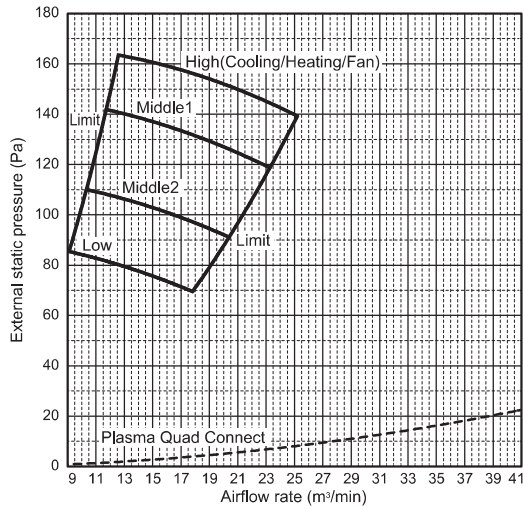
Power source : 220-240V



PEFY-MS71, 80VMA(L)-A1

External static pressure : 150Pa

Power source : 220-240V

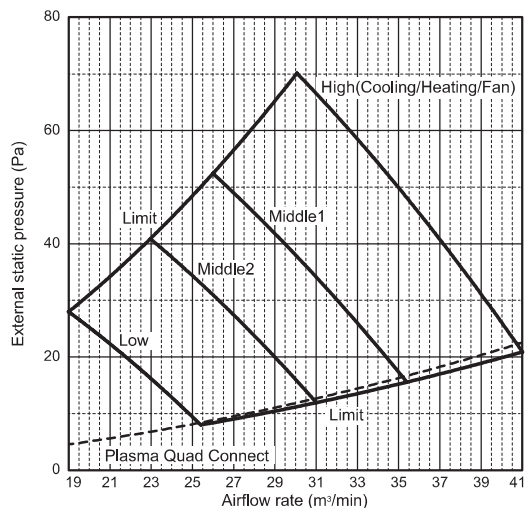


♦The fan characteristic curves (solid line) are the data with no optional parts attached.

PEFY-MS100VMA(L)-A1

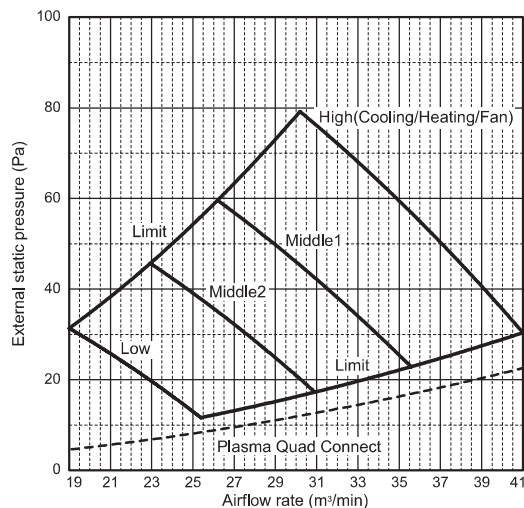
External static pressure : 40Pa

Power source : 220-240V

**PEFY-MS100VMA(L)-A1**

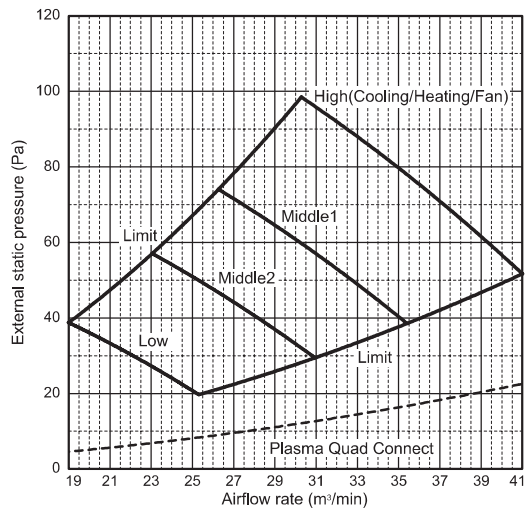
External static pressure : 50Pa

Power source : 220-240V

**PEFY-MS100VMA(L)-A1**

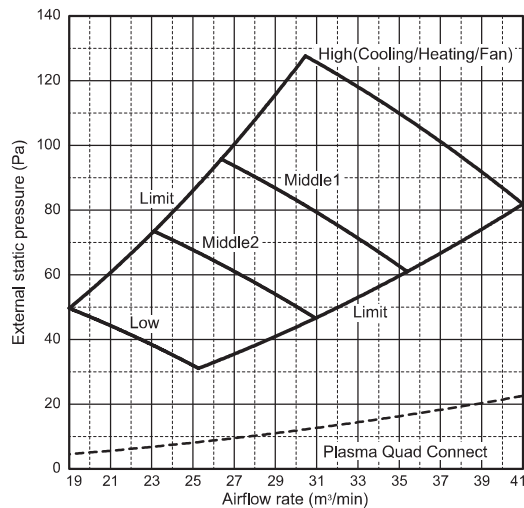
External static pressure : 70Pa

Power source : 220-240V

**PEFY-MS100VMA(L)-A1**

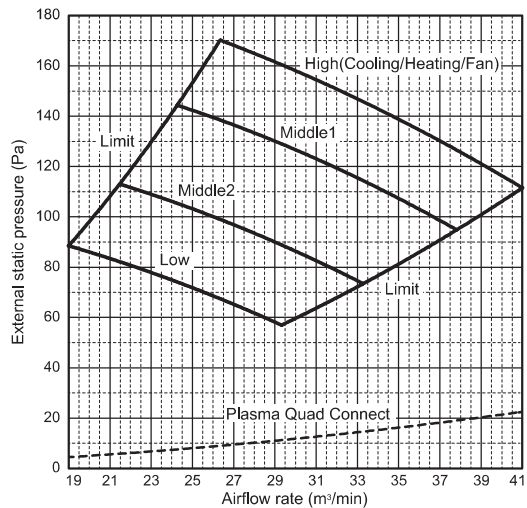
External static pressure : 100Pa

Power source : 220-240V

**PEFY-MS100VMA(L)-A1**

External static pressure : 150Pa

Power source : 220-240V

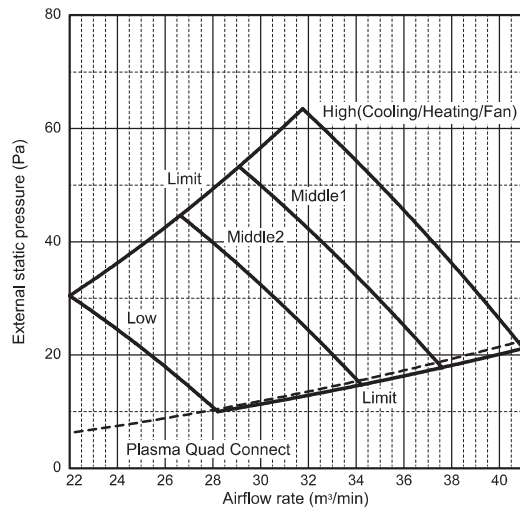


♦The fan characteristic curves (solid line) are the data with no optional parts attached.

PEFY-MS125VMA(L)-A1

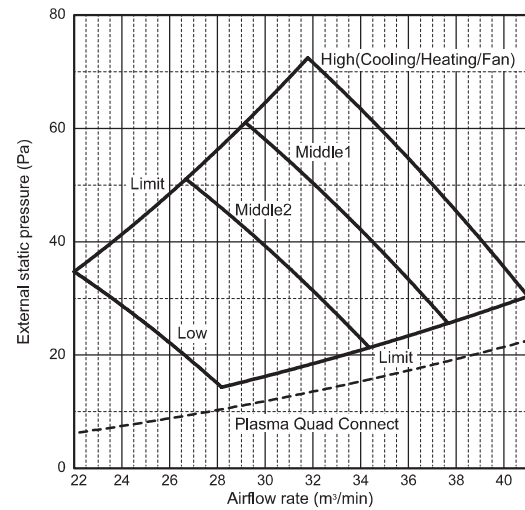
External static pressure : 40Pa

Power source : 220-240V

**PEFY-MS125VMA(L)-A1**

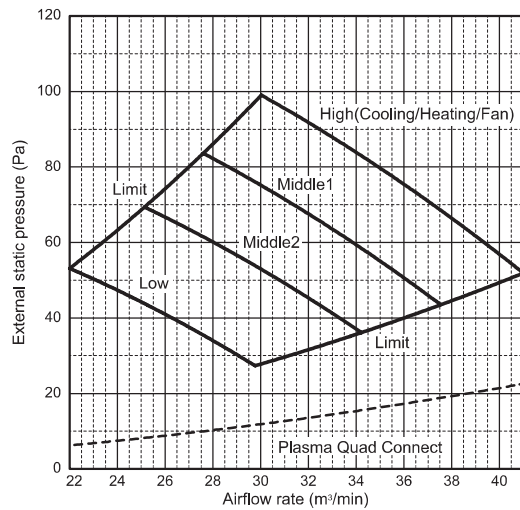
External static pressure : 50Pa

Power source : 220-240V

**PEFY-MS125VMA(L)-A1**

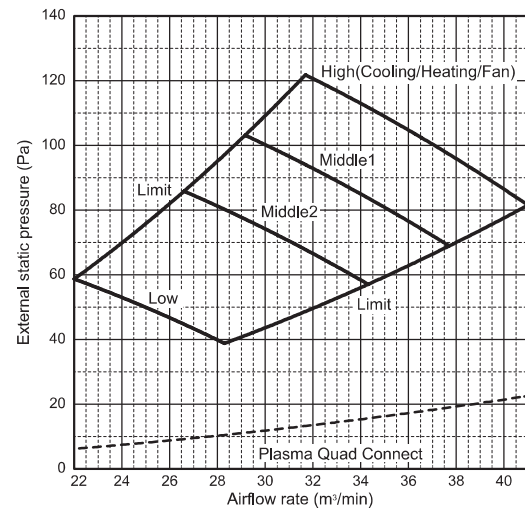
External static pressure : 70Pa

Power source : 220-240V

**PEFY-MS125VMA(L)-A1**

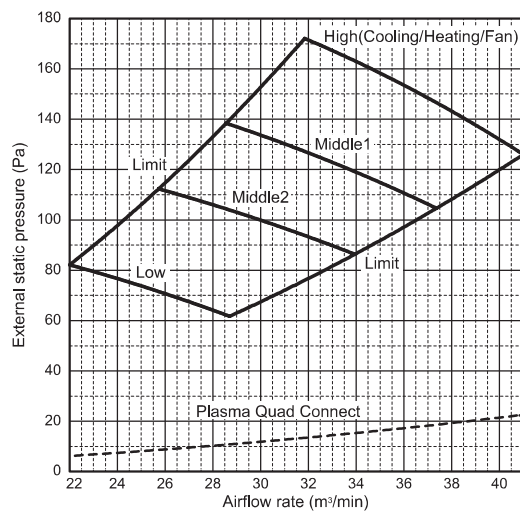
External static pressure : 100Pa

Power source : 220-240V

**PEFY-MS125VMA(L)-A1**

External static pressure : 150Pa

Power source : 220-240V



♦The fan characteristic curves (solid line) are the data with no optional parts attached.

6. FAN CHARACTERISTICS CURVES

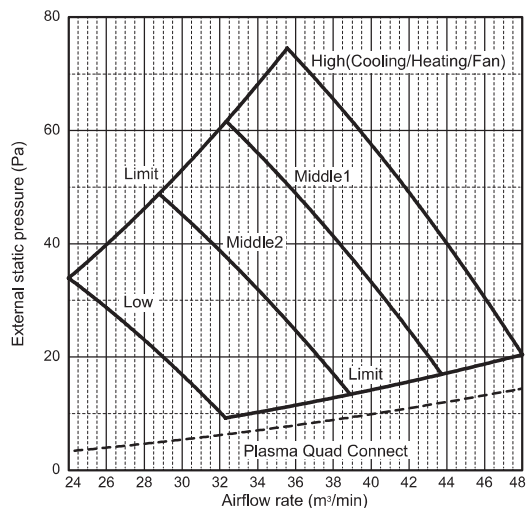
Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

PEFY-MS140VMA(L)-A1

External static pressure : 40Pa

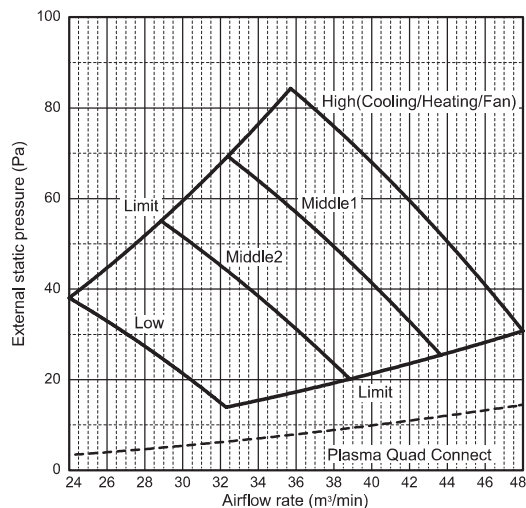
Power source : 220-240V



PEFY-MS140VMA(L)-A1

External static pressure : 50Pa

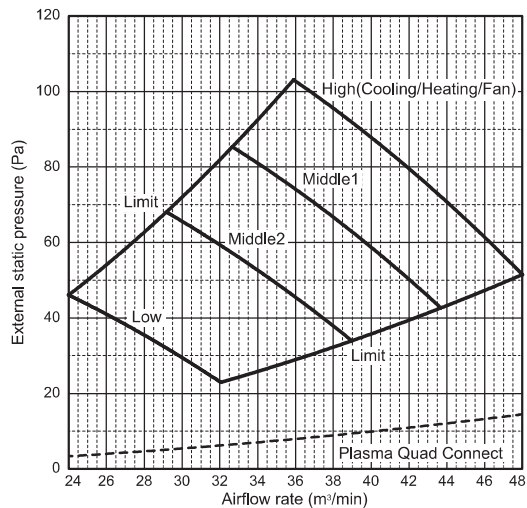
Power source : 220-240V



PEFY-MS140VMA(L)-A1

External static pressure : 70Pa

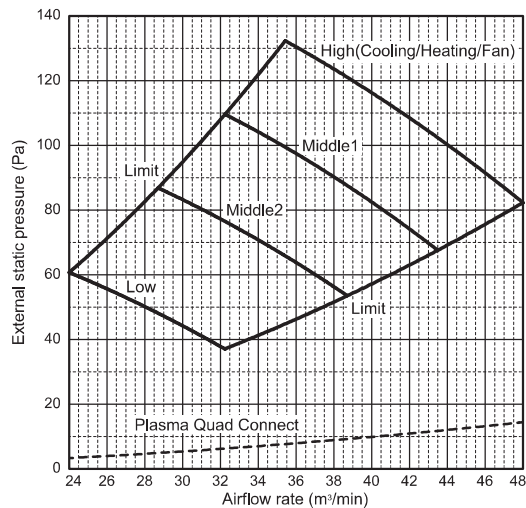
Power source : 220-240V



PEFY-MS140VMA(L)-A1

External static pressure : 100Pa

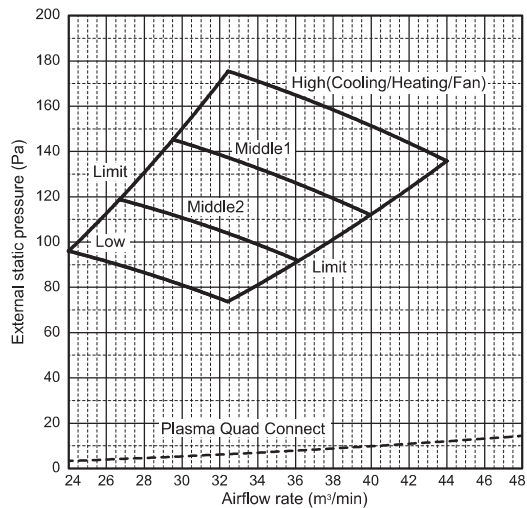
Power source : 220-240V



PEFY-MS140VMA(L)-A1

External static pressure : 150Pa

Power source : 220-240V



♦The fan characteristic curves (solid line) are the data with no optional parts attached.

7. ELECTRICAL CHARACTERISTICS

Ceiling concealed (Medium static pressure type)

Symbols: MCA (Max.Circuit Amps =1.25xFLA), FLA (Full Load Amps)

IFM (Indoor Fan Motor), Output (Fan motor rated output)

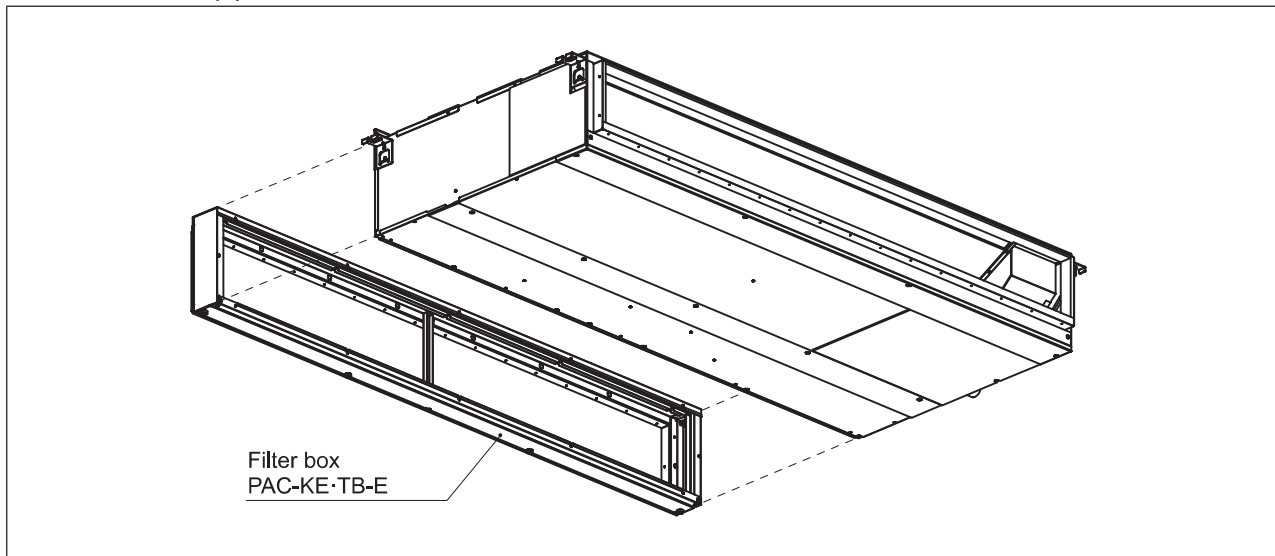
PEFY-MS-VMA(L)-A1	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA (A)	Output (kW)	FLA (A)
PEFY-MS20VMA(L)-A1	220-240V/50Hz	Max.: 264V Min.: 198V	0.93	0.085	0.74
PEFY-MS25VMA(L)-A1			0.93	0.085	0.74
PEFY-MS32VMA(L)-A1			1.19	0.085	0.95
PEFY-MS40VMA(L)-A1			1.53	0.121	1.22
PEFY-MS50VMA(L)-A1			2.13	0.121	1.70
PEFY-MS63VMA(L)-A1			2.20	0.121	1.76
PEFY-MS71VMA(L)-A1			2.35	0.300	1.88
PEFY-MS80VMA(L)-A1			2.35	0.300	1.88
PEFY-MS100VMA(L)-A1			2.81	0.300	2.25
PEFY-MS125VMA(L)-A1			2.93	0.300	2.34
PEFY-MS140VMA(L)-A1			3.29	0.300	2.63

PEFY-MS-VMA(L)-A1

8-1. Optional parts line up for the Indoor unit

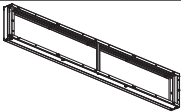
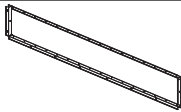
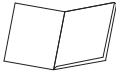
	Filter box	Plasma Quad Connect	PQ attachment (Rear inlet)	PQ attachment (Bottom inlet)	PQ box
PEFY-MS20, 25, 32VMA(L)-A1	PAC-KE91TB-E	MAC-100FT-E	PAC-HA31PAR	PAC-HA31PAU	PAC-KE91PTB-E
PEFY-MS40VMA(L)-A1	PAC-KE92TB-E	MAC-100FT-E	PAC-HA31PAR	PAC-HA31PAU	PAC-KE92PTB-E
PEFY-MS50, 63VMA(L)-A1	PAC-KE93TB-E	MAC-100FT-E	PAC-HA31PAR	PAC-HA31PAU	PAC-KE93PTB-E
PEFY-MS71, 80, 100, 125VMA(L)-A1	PAC-KE94TB-E	MAC-100FT-E	PAC-HA31PAR	PAC-HA31PAU	PAC-KE94PTB-E
PEFY-MS140VMA(L)-A1	PAC-KE95TB-E	MAC-100FT-E	PAC-HA31PAR	PAC-HA31PAU	PAC-KE95PTB-E

● PEFY-MS-VMA(L)-A1



8-2. Filter box

PAC-KE-TB-E

Item	1 Screw	2 Filter box	3 FLANGE	4 Installation manual	
Quantity	PAC-KE91TB-E: 20 PAC-KE92, 93TB-E: 24 PAC-KE94, 95TB-E: 30	1	1	1	
Shape					

For detailed installation information, refer to the Installation Manual.

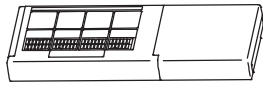
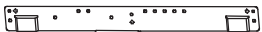
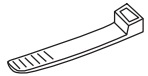
8-3. Plasma Quad Connect

Static pressure loss is referred to 6 "FAN CHARACTERISTICS CURVES".

Plasma Quad Connect (MAC-100FT-E) should be used together with PQ box or PQ attachment (PAC-HA31PAR or PAC-HA31PAU).

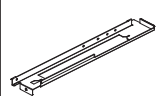
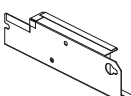
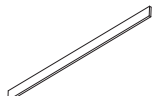
*Attaching the Plasma Quad Connect increases the pressure loss. Adjust the external static pressure setting as necessary. For the adjustment procedure, see the Installation Manual for the indoor unit.

Plasma Quad Connect (MAC-100FT-E)

Item	Plasma Quad Connect (with connecting cable)	Installation plate	Fixing screw for Plasma Quad Connect and Installation plate 4 × 25 mm
Quantity	1	1	5
Shape			
Item	Spacer Note: The spacer is used as packaging material.	Mounting cord clamp	Cable tie
Quantity	1	1	1
Shape			
Item	Screw for Mounting cord clamp 4 × 16 (Use when joining room air conditioner parts)		
Quantity	1		
Shape			

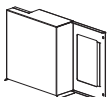
For detailed installation information, refer to the Installation Manual.

PQ attachment (Rear inlet) (PAC-HA31PAR)

Item	PLATE 1	PLATE 2	PLATE 3	PLATE 4	Screw (4 × 10)	Screw (5 × 10)	RUBBER PLATE
Quantity	1	—	1	1	3	2	2
Shape							

For detailed installation information, refer to the Installation Manual.

PQ attachment (Bottom inlet) (PAC-HA31PAU)

Item	PLATE 1	PLATE 2	PLATE 3	PLATE 4	Screw (4 × 10)	CABLE STRAP	WIRE SADDLE	RUBBER PLATE
Quantity	1	1	1	1	9	1	1	2
Shape								

For detailed installation information, refer to the Installation Manual.

PQ box (PAC-KE91, 92, 93, 94, 95PTB-E)

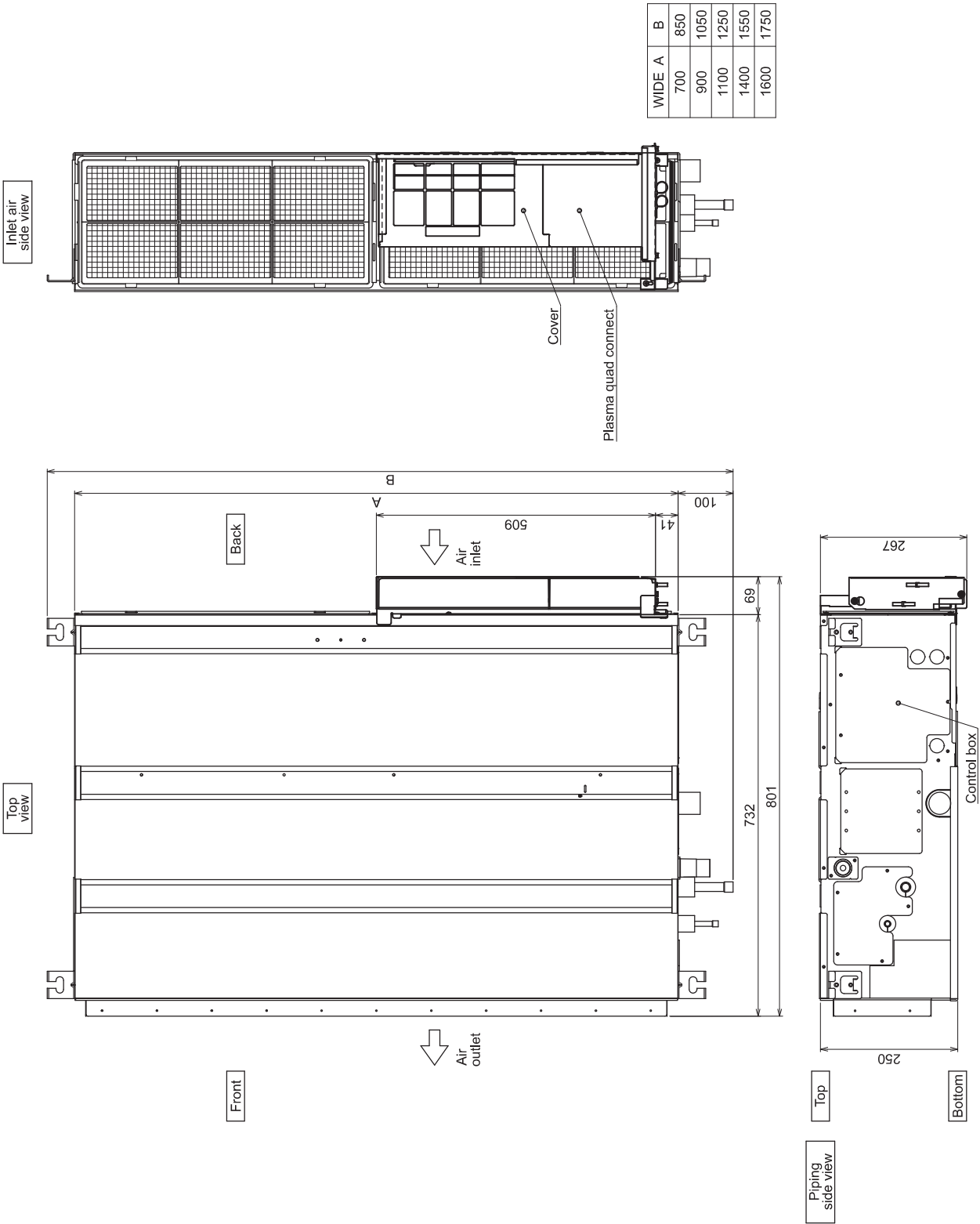
Item	Screw (4 × 10)	CABLE STRAP	SUCTION FLANGE	WIRING COVER	RUBBER PLATE
Quantity	22 (PAC-KE91PTB-E) 26 (PAC-KE92, 93PTB-E) 32 (PAC-KE94, 95PTB-E)	2	1	1	2
Shape					

For detailed installation information, refer to the Installation Manual.

PEFY-MS-VMA(L)-A1

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A1
with PQ attachment (Rear inlet) and Plasma Quad Connect

Unit: mm



Model	WIDE A	B
PEFY-MS20,25,32VMA(L)-A1	700	850
PEFY-MS40VMA(L)-A1	900	1050
PEFY-MS50,63VMA(L)-A1	1100	1250

Model	WIDE A	B
PEFY-MS71,80,100,125VMA(L)-A1	1400	1550
PEFY-MS140VMA(L)-A1	1600	1750

The drawing above is a sample image of the optional parts being installed on a unit.

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A1
with PQ attachment (Rear inlet) and Plasma Quad Connect

Unit: mm

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.
Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

(1) When a space of 300mm or more is available below the unit between the unit and the ceiling, (Fig. 1)

• Create access door 1 and 2 (450x450mm each) as shown in Fig. 2.
(Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

(2) When a space of less than 300mm is available below the unit between the unit and the ceiling,
(At least 20mm of space should be left below the unit as shown in Fig. 3.)

• Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig. 4.

or

• Create access door 4 below the control box and the unit as shown in Fig. 5.

(3) For maintenance if there is more than 170mm from the top surface, the cover can be pulled out without removing the PQ attachment. (Fig. 1, Fig. 3)

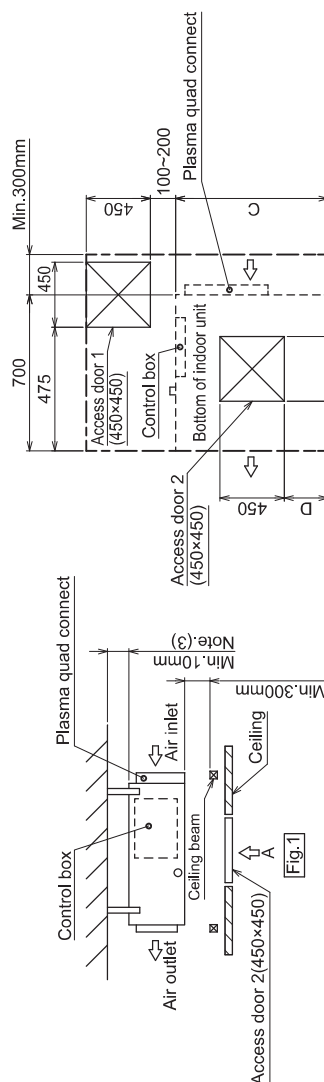


Fig. 2 (Viewed from the direction of the arrow A)

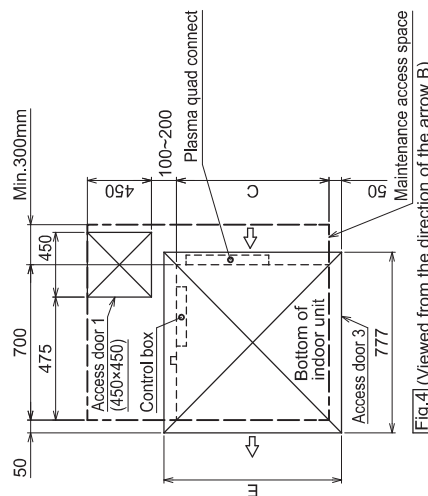


Fig. 4 (Viewed from the direction of the arrow B)

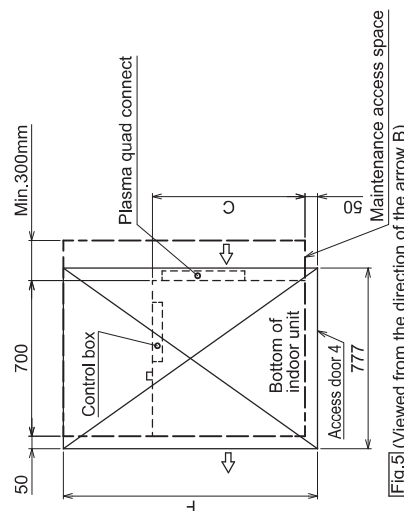


Fig. 5 (Viewed from the direction of the arrow B)

WIDE C	D	E	F
700	50~150	800	1300
900	150~250	1000	1500
1100	250~350	1200	1700
1400	400~500	1500	2000
1600	500~600	1700	2200

Model	WIDE C	D	E	F
PEFY-MS20,25,32VMA(L)-A1	700	50~150	800	1300
PEFY-MS40VMA(L)-A1	900	150~250	1000	1500
PEFY-MS50,63VMA(L)-A1	1100	250~350	1200	1700

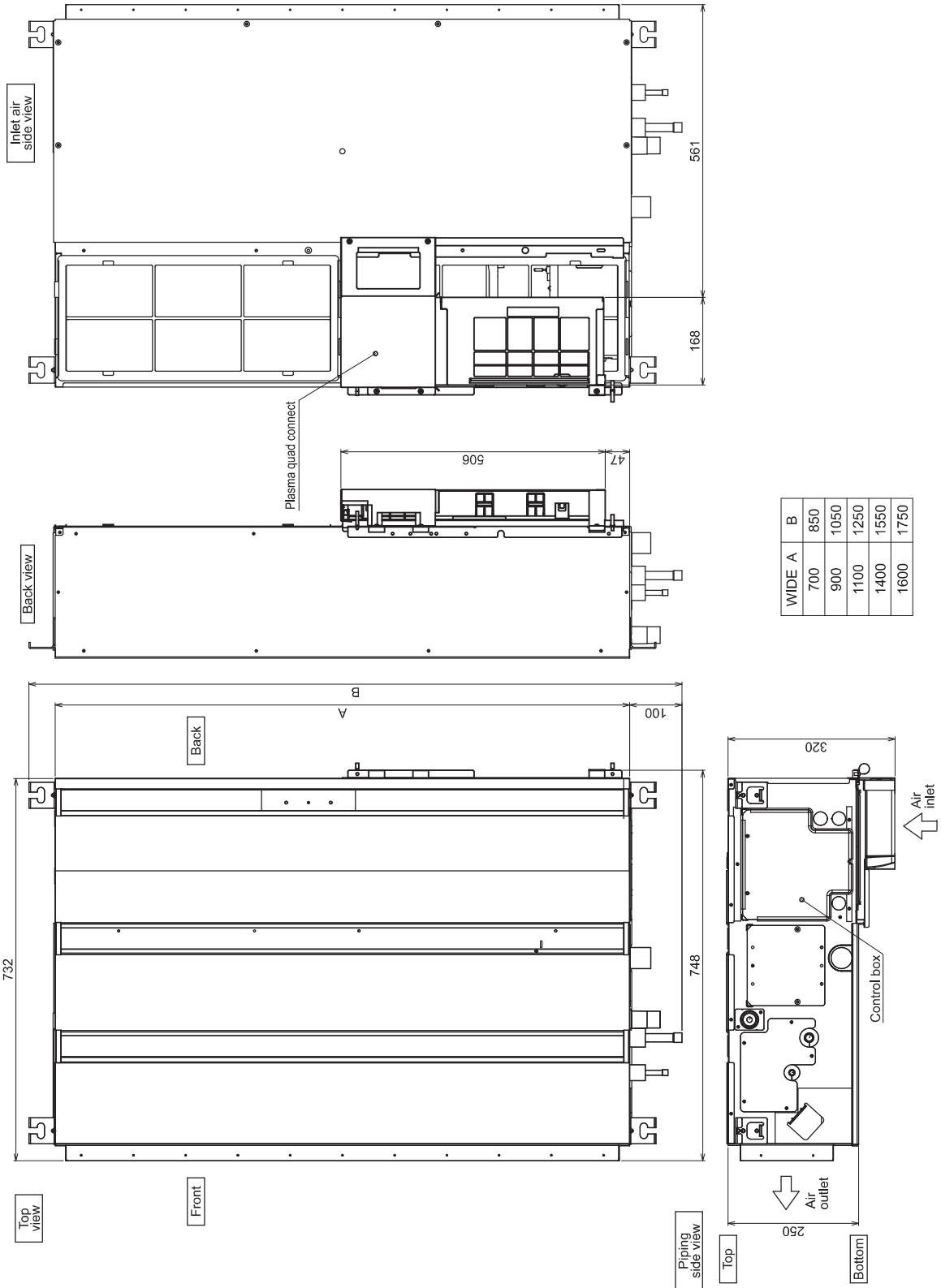
Model	WIDE C	D	E	F
PEFY-MS71,80,100,125VMA(L)-A1	1400	400~500	1500	2000
PEFY-MS140VMA(L)-A1	1600	500~600	1700	2200

The drawing above is a sample image of the optional parts being installed on a unit.

PEFY-MS-VMA(L)-A1

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A1
with PQ attachment (Bottom inlet) and Plasma Quad Connect

Unit: mm



Model	WIDE A	B
PEFY-MS20,25,32VMA(L)-A1	700	850
PEFY-MS40VMA(L)-A1	900	1050
PEFY-MS50,63VMA(L)-A1	1100	1250

Model	WIDE A	B
PEFY-MS71,80,100,125VMA(L)-A1	1400	1550
PEFY-MS140VMA(L)-A1	1600	1750

The drawing above is a sample image of the optional parts being installed on a unit.

8. OPTIONAL PARTS

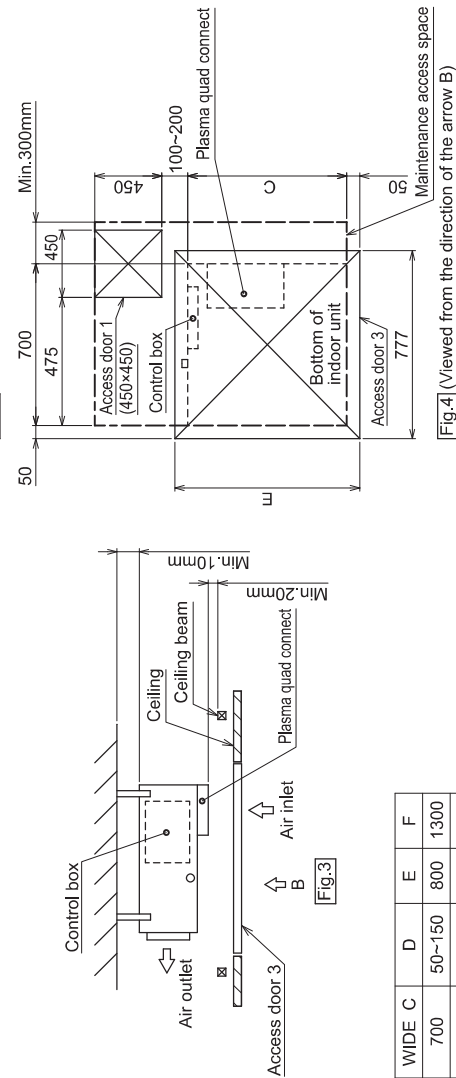
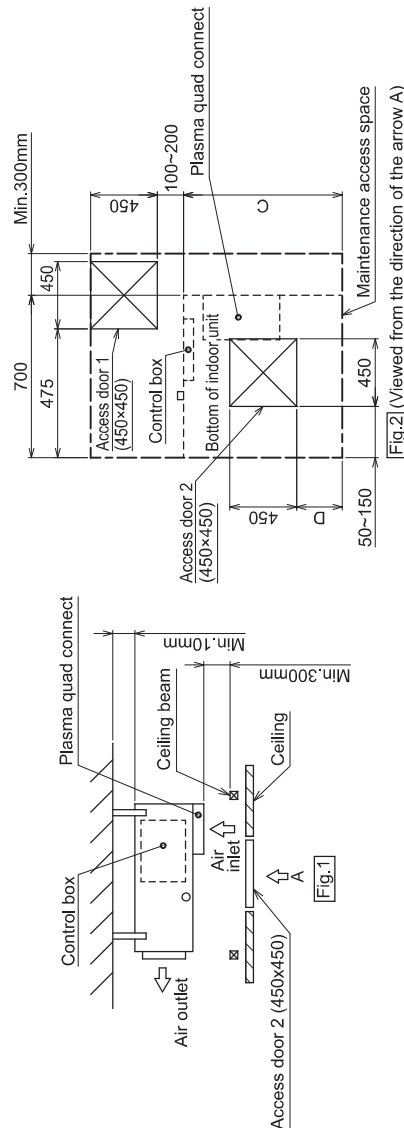
Ceiling concealed (Medium static pressure type)

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A1
with PQ attachment (Bottom inlet) and Plasma Quad Connect

Unit: mm

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.
Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling, (Fig.1)
 - Create access door 1 and 2 (450x450mm each) as shown in Fig.2.
(Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)
- (2) When a space of less than 300mm is available below the unit between the unit and the ceiling,
(At least 20mm of space should be left below the unit as shown in Fig.3.)
 - Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
or
 - Create access door 4 below the control box and the unit as shown in Fig.5.



Model	WIDE C	D	E	F
PEFY-MS20,25,32VMA(L)-A1	700	50~150	800	1300
PEFY-MS40VMA(L)-A1	900	150~250	1000	1500
PEFY-MS50,63VMA(L)-A1	1100	250~350	1200	1700

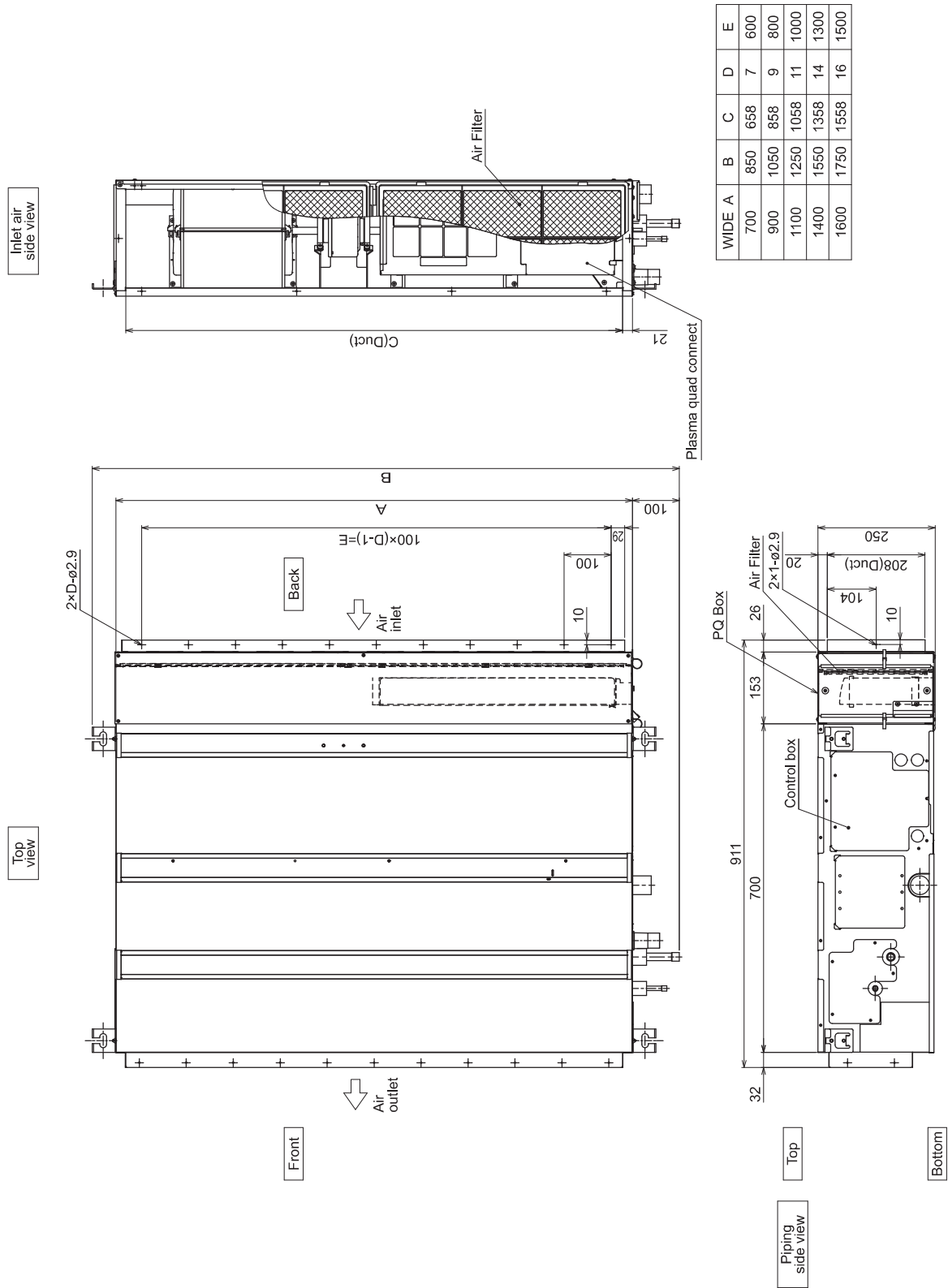
Model	WIDE C	D	E	F
PEFY-MS71,80,100,125VMA(L)-A1	1400	400~500	1500	2000
PEFY-MS140VMA(L)-A1	1600	500~600	1700	2200

The drawing above is a sample image of the optional parts being installed on a unit.

PEFY-MS-VMA(L)-A1

PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A1
with PQ box and Plasma Quad Connect

Unit: mm



Model	WIDE A	B	C	D	E
PEFY-MS20,25,32VMA(L)-A1	700	850	658	7	600
PEFY-MS40VMA(L)-A1	900	1050	858	9	800
PEFY-MS50,63VMA(L)-A1	1100	1250	1058	11	1000

Model	WIDE A	B	C	D	E
PEFY-MS71,80,100,125VMA(L)-A1	1400	1550	1358	14	1300
PEFY-MS140VMA(L)-A1	1600	1750	1558	16	1500

The drawing above is a sample image of the optional parts being installed on a unit.

8. OPTIONAL PARTS

Ceiling concealed (Medium static pressure type)

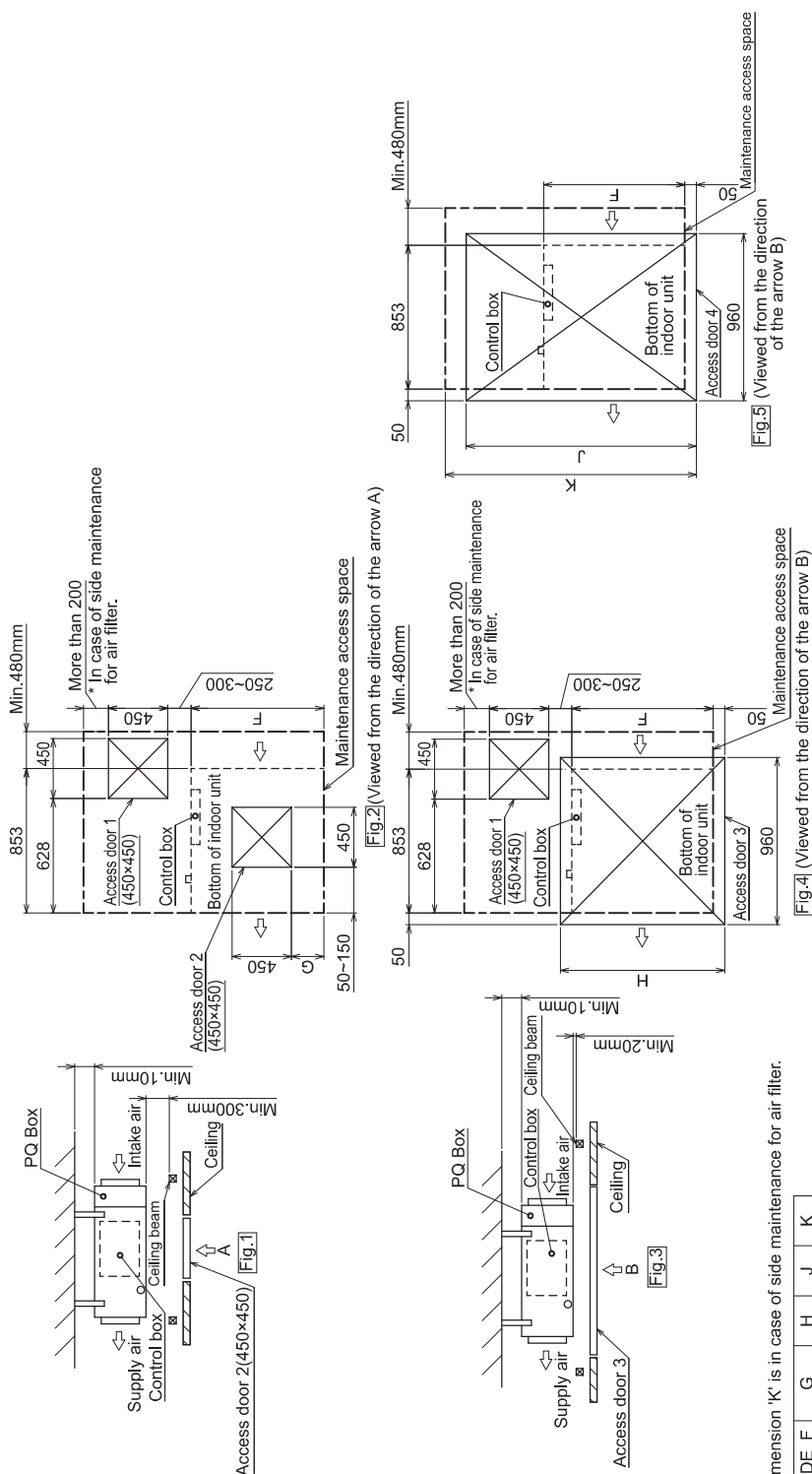
PEFY-MS20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-A1
with PQ box and Plasma Quad Connect

Unit: mm

PEFY-MS-VMA(L)-A1

[Maintenance access space]
Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.
Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling, (Fig.1)
 - Create access door 1 and 2 (450x450mm each) as shown in Fig.2.
(Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)
- (2) When a space of less than 300mm is available below the unit between the unit and the ceiling.
(At least 20mm of space should be left below the unit as shown in Fig.3.)
 - Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
or
 - Create access door 4 below the control box and the unit as shown in Fig.5.



* Dimension 'K' is in case of side maintenance for air filter.

WIDE	F	G	H	J	K
700		50-150	800	1300	1450
900		150-250	1000	1500	1850
1100		250-350	1200	1700	
1400		400-500	1500	2000	2150
1600		500-600	1700	2200	2550

Model	WIDE F	G	H	J	K
PEFY-MS20,25,32VMA(L)-A1	700	50~150	800	1300	1450
PEFY-MS40VMA(L)-A1	900	150~250	1000	1500	1850
PEFY-MS50,63VMA(L)-A1	1100	250~350	1200	1700	-

Model	WIDE F	G	H	J	K
PEFY-MS71,80,100,125VMA(L)-A1	1400	400~500	1500	2000	2150
PEFY-MS140VMA(L)-A1	1600	500~600	1700	2200	2550

The drawing above is a sample image of the optional parts being installed on a unit.

⚠ Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
 - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R32 or R410A.

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